

Knack API Data Model

for use with Invantive SQL

24.0

invantive
the SQL company

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This manual is a reference guide intended to clarify usage. If data in the sample images match data in your system, the similarity is coincidental.

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1 SQL Driver for Knack API

Invantive UniversalSQL is the fastest, easiest and most reliable way to exchange data with the Knack API.

Use the "Search" option in the left menu to search for a specific term such as the table or column description. When you already know the term, please use the "Index" option. When you can't find the information needed, please click on the Chat button at the bottom or place your question in the user community. Invantive Support or other users will try to help you.

Knack is a low-code platform to build online databases.

The Knack driver covers 45 tables and 1257 columns.

Knack API Clients

Invantive UniversalSQL is available on many user interfaces ("clients" in traditional server-client paradigma). All Invantive UniversalSQL statements can be exchanged with a close to 100% compatibility across all clients and operating systems (Windows, MacOS, Linux, iOS, Android).

The clients include Microsoft Excel, Microsoft Power BI, Microsoft Power Query, Microsoft Word and Microsoft Outlook. Web-based clients include Invantive Cloud, Invantive Bridge Online as OData proxy, Invantive App Online for interactive apps, Online SQL Editor for query execution and Invantive Data Access Point as extended proxy.

The Knack Power BI connector is based on the Invantive UniversalSQL driver for Knack, completed by a high-performance OData connector which works straight on Power BI without any add-on. The OData protocol is always version 4, independent whether the backing platform uses OData, SOAP or another protocol.

For technical users there are command-line editions of Invantive Data Hub running on iOS, Android, Windows, MacOS and Linux. Invantive Data Hub is also often used for enterprise server applications such as ETL. High-volume replication of data taken from the Knack API into traditional databases such as SQL Server (on-premises and Azure), MySQL, PostgreSQL and Oracle is possible using Invantive Data Replicator. Invantive Data Replicator automatically creates and maintains Knack datawarehouses, possibly in combination with data from over 75 other (cloud) platforms. Invantive Data Replicator supports data volumes up to over 1 TB and over 5.000 companies. The on-premise edition of Invantive Bridge offers an Knack ADO.net provider.

Finally, online web apps can be build for Knack using App Online of Invantive Cloud.

Monitor API Calls

When a query or DML-statement has been executed on Invantive UniversalSQL a developer can evaluate the actual calls made to the Knack API using a query on sessionios@DataDictionary. As an alternative, extensive request and response logging can be enabled by setting log-native-calls-to-disk to true. In the %USERPROFILE%\Invantive\NativeLog folder Invantive UniversalSQL will create log files per Knack API request and response.

Specifications

The SQL driver for Knack does not support partitioning. Define one data container in a database for each company in Knack to enable parallel access for data from multiple companies.

An introduction into the concepts of Invantive UniversalSQL such as databases, data containers and partitioning can be found in the Invantive UniversalSQL grammar.

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The configuration can be changed using various attributes from the database definition, on log on and during use. A full list of configuration options is listed in the driver attributes 2.

The catalog name is used to compose the full qualified name of an object like a table or view. The schema name is used to compose the full qualified name of an object like a table or view. On Knack the comparison of two texts is case sensitive by default.

Changes and bug fixes on the Knack SQL driver can be found in the release notes. Get access to the community through the Knack section of the Invantive forums.

Driver code for use in settings.xml: `Knack`

Alias: `knack`

Recommended alias: `knk`

More technical documentation as provided by the supplier of Knack on the native connection used can be found at https://docs.knack.com/docs/using-the-api.

AuthenticationAuthentication can be done using one of the following two alternatives:1. Using the user log on code and password to access Knack views.2. Using an API key to access Knack objects.The API key can be found on the 'API & Code' page in Knack available through the settings gear on the top-left corner next to the word 'Integration'. The URL for the API key is https://builder.knack.com/SAMPLE/integration#settings/api, with 'SAMPLE' replaced by your slug. The slug is the word before 'knack.com' when running your app.

Usage LimitsInvantive SQL executes API calls to retrieve and upload data. The number of API calls allowed per hour depends on your Knack plan. The default usage limits vary depending on plan between 1.000 and 25.000 calls per day, with a limit of 10 calls per second. Invantive SQL ensures that within your session the number of calls allowed per hour is not exceeded.To get an impression of how Invantive SQL translates into API calls, please query the data dictionary view 'sessionios', such as with 'select * from sessionios@datadictionary'.

2 {res:itgen_doc_sql_attr_api}

The SQL driver for Knack has many attributes that can be finetuned to improve handling in scenarios with unreliable network connections to the API server of Knack or high volumes of data. Also, many drivers have driver-specific attributes to finetune actual behaviour or handle data not matching specifications.

The Knack driver attributes are assigned a default value which seldom requires change. However, changes can be applied when needed on four levels, which are reflected in the table below by separate checkmarks:

- Connection string: the connection string from the settings*.xml file and applied during log on.
- Set SQL statement: a set SQL-statement to be executed once connection has been established.
- Log on: value to be specified interactively by user during log on in a user interface.

The connection string for Knack can be found in the settings*.xml file used for the database. The reference manuals contain instructions how to relocate the settings*.xml files. Settings*.xml files are typically located in the `%USERPROFILE%\invantive` folder in most deployment scenarios. Each data container of a database in the connection string can have a `connectionString` element specifying the name and values of attributes. Both name and value must be properly escaped according to XML-semantics. Actual application of the value

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is solely done during log on. A new connection must be established to change the value of a driver attribute using a connection string.

The set SQL statement can be executed after log on. The syntax is: `set NAME VALUE`, or for a distributed database: `set NAME@ALIAS VALUE`. In some scenarios you may need to enclose the driver attribute name in square brackets to escape it from parsing, for instance when a reserved SQL keyword is part of the name. The new value takes effect straight after execution of the set-statement. The set-statement can be executed as often as needed during a session.

Driver attributes that can be interactively set to a value are typically presented in the log on window. Depending on the platform and design decisions of the user interface designer, some or all of the available driver attributes can have been made available.

The Knack driver can be configured using the following attributes:

Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Drivers File	Set from Log On
add-odata-mandatory-filters	Whether to automatically add OData filters deemed necessary by the platform.	OData	False	✓	✓	✓	
analysis-enforce-row-uniqueness	Enforce rows to be unique for software analysis. A fingerprint is calculated from the whole row of data when the primary key column is unknown.	Shared	False	✓	✓	✓	
api-key	API key of the Knack application.	Knack		✓		✓	✓
api-url	URL of web service.	OData		✓		✓	
application-id	ID of the Knack application.	Knack		✓		✓	✓
bulk-delete-page-size-rows	Number of rows to delete per batch when bulk deleting.	Shared	10000	✓	✓	✓	
bulk-insert-page-size-bytes	Approximate maximum size in bytes of batch when bulk inserting.	Shared	10000000	✓	✓	✓	
bulk-insert-page-size-rows	Number of rows to insert per batch when bulk inserting.	Shared	250	✓	✓	✓	
download-error-400-bad-request-max-tries	Maximum number of tries when HTTP server reports bad format during retrieval of data.		3	✓	✓	✓	
download-error-400-bad-request-sleep-initial-ms	Initial sleep in milliseconds between retries when HTTP server reports that the API server is unavailable during retrieval of data.		500	✓	✓	✓	
download-error-400-bad-request-sleep-max-ms	Maximum sleep in milliseconds between retries when HTTP server reports that the API server is unavailable during retrieval of data.		5000	✓	✓	✓	
download-error-400-bad-request-sleep-multiplicator	Multiplication factor for sleep between retries HTTP server reports that the API server is unavailable during retrieval of data.		2	✓	✓	✓	
download-error-403-forbidden-max-	Maximum number of tries when the website reports a HTTP status 403		2	✓	✓	✓	

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Code	Description	Origin	Default Value	Set from Con-nec-tion String	Set from Set SQL-State-ment	Set from Driver s File	Set from Log On
tries	(Forbidden).						
dow nload-error-403-forbidden-sleep-initial-ms	Initial sleep in milliseconds betw een retries w hen the w ebsite reports a HTTP status 403 (Forbidden).		3000	✓	✓	✓	
dow nload-error-403-forbidden-sleep-max-ms	Maximum sleep in milliseconds betw een retries w hen the w ebsite reports a HTTP status 403 (Forbidden).		10000	✓	✓	✓	
dow nload-error-403-forbidden-sleep-multiplicator	Multiplication factor for sleep betw een retries w hen the w ebsite reports a HTTP status 403 (Forbidden).		2	✓	✓	✓	
dow nload-error-408-request-timeout-max-tries	Maximum number of tries w hen the w ebsite reports a HTTP status 408.		10	✓	✓	✓	
dow nload-error-408-request-timeout-sleep-initial-ms	Initial sleep in milliseconds betw een retries w hen the w ebsite reports a HTTP status 408.		10000	✓	✓	✓	
dow nload-error-408-request-timeout-sleep-max-ms	Maximum sleep in milliseconds betw een retries w hen the w ebsite reports a HTTP status 408.		300000	✓	✓	✓	
dow nload-error-408-request-timeout-sleep-multiplicator	Multiplication factor for sleep betw een retries w hen the w ebsite reports a HTTP status 408.		2	✓	✓	✓	
dow nload-error-422-bad-request-max-tries	Maximum number of tries w hen HTTP server reports unprocessable entity during retrieval of data.		30	✓	✓	✓	
dow nload-error-422-bad-request-sleep-initial-ms	Initial sleep in milliseconds betw een retries w hen HTTP server reports unprocessable entity during retrieval of data.		10000	✓	✓	✓	
dow nload-error-422-bad-request-sleep-max-ms	Maximum sleep in milliseconds betw een retries w hen HTTP server reports unprocessable entity during retrieval of data.		300000	✓	✓	✓	
dow nload-error-422-bad-request-sleep-multiplicator	Multiplication factor for sleep betw een retries HTTP server reports unprocessable entity during retrieval of data.		2	✓	✓	✓	
dow nload-error-429-too-many-requests-max-tries	Maximum number of tries w hen the w ebsite reports that too many requests have been made during a timeslot of one minute or one day.		10	✓	✓	✓	
dow nload-error-429-too-many-requests-sleep-initial-ms	Initial sleep in milliseconds betw een retries w hen the w ebsite reports that too many requests have been made during a timeslot of one minute or one day.		10000	✓	✓	✓	
dow nload-error-429-too-many-re-	Maximum sleep in milliseconds betw een retries w hen the w ebsite reports that too many requests have		300000	✓	✓	✓	

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Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Drivers File	Set from Log On
quests-sleep-max-ms	been made during a timeslot of one minute or one day.						
download-error-429-too-many-requests-sleep-multiplicator	Multiplication factor for sleep between retries when the website reports that too many requests have been made during a timeslot of one minute or one day.		2	✓	✓	✓	
download-error-500-internal-server-error-max-tries	{res:itgen_pae_download_error_500_internal_server_error_max_tries}		10	✓	✓	✓	
download-error-500-internal-server-error-sleep-initial-ms	{res:itgen_pae_download_error_500_internal_server_error_sleep_initial_ms}		10000	✓	✓	✓	
download-error-500-internal-server-error-sleep-max-ms	{res:itgen_pae_download_error_500_internal_server_error_sleep_max_ms}		300000	✓	✓	✓	
download-error-500-internal-server-error-sleep-multiplicator	{res:itgen_pae_download_error_500_internal_server_error_sleep_multiplicator}		2	✓	✓	✓	
download-error-502-server-unavailable-max-tries	Maximum number of tries when HTTP server reports a bad gateway during retrieval of data.		30	✓	✓	✓	
download-error-502-server-unavailable-sleep-initial-ms	Initial sleep in milliseconds between retries when HTTP server reports a bad gateway during retrieval of data.		10000	✓	✓	✓	
download-error-502-server-unavailable-sleep-max-ms	Maximum sleep in milliseconds between retries when HTTP server reports that a bad gateway during retrieval of data.		300000	✓	✓	✓	
download-error-502-server-unavailable-sleep-multiplicator	Multiplication factor for sleep between retries HTTP server reports a bad gateway during retrieval of data.		2	✓	✓	✓	
download-error-503-server-unavailable-max-tries	Maximum number of tries when HTTP server reports that the API server is unavailable during retrieval of data.		30	✓	✓	✓	
download-error-503-server-unavailable-sleep-initial-ms	Initial sleep in milliseconds between retries when HTTP server reports that the API server is unavailable during retrieval of data.		10000	✓	✓	✓	
download-error-503-server-unavailable-sleep-max-ms	Maximum sleep in milliseconds between retries when HTTP server reports that the API server is unavailable during retrieval of data.		300000	✓	✓	✓	
download-error-503-server-unavailable-sleep-multiplicator	Multiplication factor for sleep between retries HTTP server reports that the API server is unavailable during retrieval of data.		2	✓	✓	✓	

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Code	Description	Origin	Default Value	Set from Con-nec-tion String	Set from Set SQL-State-ment	Set from Driver s File	Set from Log On
dow nload-error-504-gatew ay-timeout-max-tries	Maximum number of tries w hen the w ebsite reports a gatew ay timeout.		10	✓	✓	✓	
dow nload-error-504-gatew ay-timeout-sleep-initial-ms	Initial sleep in milliseconds betw een retries w hen the w ebsite reports a gatew ay timeout.		10000	✓	✓	✓	
dow nload-error-504-gatew ay-timeout-sleep-max-ms	Maximum sleep in milliseconds betw een retries w hen the w ebsite reports a gatew ay timeout.		300000	✓	✓	✓	
dow nload-error-504-gatew ay-timeout-sleep-multi-plicator	Multiplication factor for sleep betw een retries w hen the w ebsite reports a gatew ay timeout.		2	✓	✓	✓	
dow nload-error-590-netw ork-con-nect-timeout-max-tries	Maximum number of tries w hen the w ebsite reports a HTTP status 590.		10	✓	✓	✓	
dow nload-error-590-netw ork-con-nect-timeout-sleep-initial-ms	Initial sleep in milliseconds betw een retries w hen the w ebsite reports a HTTP status 590.		10000	✓	✓	✓	
dow nload-error-590-netw ork-con-nect-timeout-sleep-max-ms	Maximum sleep in milliseconds betw een retries w hen the w ebsite reports a HTTP status 590.		300000	✓	✓	✓	
dow nload-error-590-netw ork-con-nect-timeout-sleep-multiplicator	Multiplication factor for sleep betw een retries w hen the w ebsite reports a HTTP status 590.		2	✓	✓	✓	
dow nload-error-599-netw ork-con-nect-timeout-max-tries	Maximum number of tries w hen the w ebsite reports a HTTP status 599.		10	✓	✓	✓	
dow nload-error-599-netw ork-con-nect-timeout-sleep-initial-ms	Initial sleep in milliseconds betw een retries w hen the w ebsite reports a HTTP status 599.		10000	✓	✓	✓	
dow nload-error-599-netw ork-con-nect-timeout-sleep-max-ms	Maximum sleep in milliseconds betw een retries w hen the w ebsite reports a HTTP status 599.		300000	✓	✓	✓	
dow nload-error-599-netw ork-con-nect-timeout-sleep-multiplicator	Multiplication factor for sleep betw een retries w hen the w ebsite reports a HTTP status 599.		2	✓	✓	✓	
dow nload-error-ar-gument-exception-max-tries	Maximum number of tries w hen an argument exception is returned w hen dow nloading a blob.		10	✓	✓	✓	

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Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Drivers File	Set from Log On
download-error-argument-exception-sleep-initial-ms	Initial sleep in milliseconds between retries when an argument exception is returned when downloading a blob.		10000	✓	✓	✓	
download-error-argument-exception-sleep-max-ms	Maximum sleep in milliseconds between retries when an argument exception is returned when downloading a blob.		300000	✓	✓	✓	
download-error-argument-exception-sleep-multiplicator	Multiplication factor for sleep between retries when an argument exception is returned when downloading a blob.		2	✓	✓	✓	
download-error-internet-down-max-tries	Maximum number of tries when the Internet connection seems down during retrieval of data.		10	✓	✓	✓	
download-error-internet-down-sleep-initial-ms	Initial sleep in milliseconds between retries when the Internet connection seems down during retrieval of data.		10000	✓	✓	✓	
download-error-internet-down-sleep-max-ms	Maximum sleep in milliseconds between retries when the Internet connection seems down during retrieval of data.		300000	✓	✓	✓	
download-error-internet-down-sleep-multiplicator	Multiplication factor for sleep between retries when the Internet connection seems down during retrieval of data.		2	✓	✓	✓	
download-error-io-exception-max-tries	Maximum number of tries when a network I/O connection failure occurs during retrieval of data.		10	✓	✓	✓	
download-error-io-exception-sleep-initial-ms	Initial sleep in milliseconds between retries when a network I/O connection failure occurs during retrieval of data.		10000	✓	✓	✓	
download-error-io-exception-sleep-max-ms	Maximum sleep in milliseconds between retries when a network I/O connection failure occurs during retrieval of data.		300000	✓	✓	✓	
download-error-io-exception-sleep-multiplicator	Multiplication factor for sleep between retries when a network I/O connection failure occurs during retrieval of data.		2	✓	✓	✓	
download-error-json-exception-max-tries	Maximum number of tries when an invalid JSON body is returned.		3	✓	✓	✓	
download-error-json-exception-sleep-initial-ms	Initial sleep in milliseconds between retries when an invalid JSON body is returned.		1000	✓	✓	✓	
download-error-json-exception-sleep-max-ms	Maximum sleep in milliseconds between retries when an invalid JSON body is returned.		10000	✓	✓	✓	

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Code	Description	Origin	Default Value	Set from Con-nec-tion String	Set from Set SQL-State-ment	Set from Driver s File	Set from Log On
dow nload-error-json-exception-sleep-multiplicator	Multiplication factor for sleep betw een retries w hen an invalid JSON body is returned.		2	✓	✓	✓	
dow nload-error-name-resolution-fail-ure-max-tries	Maximum number of tries w hen the host name could not be resolved during retrieval of data.		5	✓	✓	✓	
dow nload-error-name-resolution-fail-ure-sleep-initial-ms	Initial sleep in milliseconds betw een retries w hen the host name could not be resolved during retrieval of data.		5000	✓	✓	✓	
dow nload-error-name-resolution-fail-ure-sleep-max-ms	Maximum sleep in milliseconds betw een retries w hen the host name could not be resolved during retrieval of data.		5000	✓	✓	✓	
dow nload-error-name-resolution-fail-ure-sleep-multiplic-ator	{res:itgen_pae_dow nload_error_in-ame_resolution_failure_sleep_multi-plicator}		1	✓	✓	✓	
dow nload-error-other-exception-max-tries	Maximum number of tries w hen an unqualified error occurs during re-trieval of data.		3	✓	✓	✓	
dow nload-error-other-exception-sleep-initial-ms	Initial sleep in milliseconds betw een retries w hen an unqualified error ocurrs during retrieval of data.		10000	✓	✓	✓	
dow nload-error-other-exception-sleep-max-ms	Maximum sleep in milliseconds betw een retries w hen an unqualified error ocurrs during retrieval of data.		300000	✓	✓	✓	
dow nload-error-other-exception-sleep-multiplicator	Multiplication factor for sleep betw een retries w hen an unqualified error ocurrs during retrieval of data.		2	✓	✓	✓	
dow nload-error-socket-exception-max-tries	Maximum number of tries w hen the netw ork connection is forcible dropped during retrieval of data.		10	✓	✓	✓	
dow nload-error-socket-exception-sleep-initial-ms	Initial sleep in milliseconds betw een retries w hen the netw ork connec-tion is forcible dropped during re-trieval of data.		10000	✓	✓	✓	
dow nload-error-socket-exception-sleep-max-ms	Maximum sleep in milliseconds betw een retries w hen the netw ork connection is forcible dropped dur-ing retrieval of data.		300000	✓	✓	✓	
dow nload-error-socket-exception-sleep-multiplicator	Multiplication factor for sleep betw een retries w hen the netw ork connection is forcible dropped dur-ing retrieval of data.		2	✓	✓	✓	
dow nload-error-w eb-exception-max-tries	Maximum number of tries w hen a w eb connection failure occurs dur-ing retrieval of data.		10	✓	✓	✓	
dow nload-error-w eb-exception-sleep-initial-ms	Initial sleep in milliseconds betw een retries w hen a w eb connection fail-ure occurs during retrieval of data.		10000	✓	✓	✓	

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Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Drivers File	Set from Log On
download-error-web-exception-sleep-max-ms	Maximum sleep in milliseconds between retries when a web connection failure occurs during retrieval of data.		300000	✓	✓	✓	
download-error-web-exception-sleep-multiplicator	Multiplication factor for sleep between retries when a web connection failure occurs during retrieval of data.		2	✓	✓	✓	
download-error-web-not-found-max-tries	{res:itgen_pae_download_error_web_not_found_max_tries}		1	✓	✓	✓	
download-error-web-not-found-sleep-initial-ms	{res:itgen_pae_download_error_web_not_found_sleep_initial_ms}		10000	✓	✓	✓	
download-error-web-not-found-sleep-max-ms	{res:itgen_pae_download_error_web_not_found_sleep_max_ms}		300000	✓	✓	✓	
download-error-web-not-found-sleep-multiplicator	{res:itgen_pae_download_error_web_not_found_sleep_multiplicator}		2	✓	✓	✓	
download-error-web-not-implemented-max-tries	Maximum number of tries when the connection reports not implemented.		1	✓	✓	✓	
download-error-web-not-implemented-sleep-initial-ms	Initial sleep in milliseconds between retries when the connection reports not implemented.		10000	✓	✓	✓	
download-error-web-not-implemented-sleep-max-ms	Maximum sleep in milliseconds between retries when the connection reports not implemented.		300000	✓	✓	✓	
download-error-web-not-implemented-sleep-multiplicator	Multiplication factor for sleep between retries when the connection reports not implemented.		2	✓	✓	✓	
download-error-web-timeout-max-tries	Maximum number of tries when the connection reports a timeout.		10	✓	✓	✓	
download-error-web-timeout-sleep-initial-ms	Initial sleep in milliseconds between retries when the connection reports a timeout.		1000	✓	✓	✓	
download-error-web-timeout-sleep-max-ms	Maximum sleep in milliseconds between retries when the connection reports a timeout.		30000	✓	✓	✓	
download-error-web-timeout-sleep-multiplicator	Multiplication factor for sleep between retries when the connection reports a timeout.		2	✓	✓	✓	
download-error-web-unauthorized-max-tries	Maximum number of tries when the connection reports an unauthorized error.		1	✓	✓	✓	
download-error-web-unauthorized-	Initial sleep in milliseconds between retries when the connection reports		10000	✓	✓	✓	

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Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Drivers File	Set from Log On
sleep-initial-ms	an unauthorized error.						
download-error-web-unauthorized-sleep-max-ms	Maximum sleep in milliseconds between retries when the connection reports an unauthorized error.		300000	✓	✓	✓	
download-error-web-unauthorized-sleep-multiplicator	Multiplication factor for sleep between retries when the connection reports an unauthorized error.		2	✓	✓	✓	
download-error-web-unknown-max-tries	{res:itgen_pae_download_error_web_unknown_max_tries}		10	✓	✓	✓	
download-error-web-unknown-sleep-initial-ms	{res:itgen_pae_download_error_web_unknown_sleep_initial_ms}		5000	✓	✓	✓	
download-error-web-unknown-sleep-max-ms	{res:itgen_pae_download_error_web_unknown_sleep_max_ms}		30000	✓	✓	✓	
download-error-web-unknown-sleep-multiplicator	{res:itgen_pae_download_error_web_unknown_sleep_multiplicator}		2	✓	✓	✓	
force-case-sensitive-identifiers	Consider identifiers as case-sensitive independent of the platform capabilities.	Shared	False	✓	✓	✓	
forced-casing-identifiers	Forced casing of identifiers. Choose from: Unset, Lower, Upper and Mixed.	Shared		✓	✓	✓	
http-disk-cache-compression-level	Compression level for the HTTP disk cache, ranging from 1 (little) to 9 (intense). Default is 5.		5	✓	✓	✓	
http-disk-cache-directory	Directory where HTTP cache is stored.		C:\Users\guido\Invantive\Cache\http\guido\shared	✓	✓	✓	
http-disk-cache-ignore-write-errors	Whether to ignore write errors to disk cache.		False	✓	✓	✓	
http-disk-cache-max-age-sec	Maximum acceptable age in seconds for use of data in the HTTP disk cache.		2592000	✓	✓	✓	
http-get-timeout-max-ms	HTTP GET maximum timeout on retry (ms).		24000	✓	✓	✓	
http-get-timeout-ms	HTTP GET timeout (ms).		56000	✓	✓	✓	
http-memory-cache-compression-level	Compression level for the HTTP memory cache, ranging from 1 (little) to 9 (intense). Default is 5.		5	✓	✓	✓	
http-memory-cache-max-age-sec	Maximum acceptable age in seconds for use of data in the HTTP memory cache.		14400	✓	✓	✓	

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Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Drivers File	Set from Log On
http-post-timeout-max-ms	HTTP POST maximum timeout on retry (ms).		58000	✓	✓	✓	
http-post-timeout-ms	HTTP POST timeout (ms).		57000	✓	✓	✓	
http-public-disk-cache-directory	{res:itgen_pae_http_public_disk_cache_directory}		C:\Users\guido\In-vantive\Cache\public	✓	✓	✓	
ignore-http-400-errors	Ignore HTTP 400 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
ignore-http-401-errors	Ignore HTTP 401 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
ignore-http-402-errors	Ignore HTTP 402 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
ignore-http-403-errors	Ignore HTTP 403 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
ignore-http-404-errors	Ignore HTTP 404 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
ignore-http-422-errors	Ignore HTTP 422 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
ignore-http-429-errors	Ignore HTTP 429 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
ignore-http-500-errors	Ignore HTTP 500 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
ignore-http-502-errors	Ignore HTTP 502 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
ignore-http-503-errors	Ignore HTTP 503 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
invalid-json-on-get-max-tries	Maximum number of tries when the JSON received on GET is invalid.		1	✓	✓	✓	
invalid-json-on-get-sleep-initial-ms	Initial sleep in milliseconds between retries when the JSON received on GET is invalid.		1000	✓	✓	✓	
invalid-json-on-get-sleep-max-ms	Maximum sleep in milliseconds between retries when the JSON received on GET is invalid.		10000	✓	✓	✓	
invalid-json-on-get-sleep-multiplicator	Multiplication factor for sleep between retries when the JSON received on GET is invalid.		2	✓	✓	✓	

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Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Drivers File	Set from Log On
invalid-json-on-post-max-tries	Maximum number of tries when the JSON received on POST is invalid.		1	✓	✓	✓	
invalid-json-on-post-sleep-initial-ms	Initial sleep in milliseconds between retries when the JSON received on POST is invalid.		1000	✓	✓	✓	
invalid-json-on-post-sleep-max-ms	Maximum sleep in milliseconds between retries when the JSON received on POST is invalid.		10000	✓	✓	✓	
invalid-json-on-post-sleep-multiplicator	Multiplication factor for sleep between retries when the JSON received on POST is invalid.		2	✓	✓	✓	
invantive-sql-compress-sparse-arrays	Whether to compress sparse arrays in result sets during compression.	SQL Engine V1	True	✓	✓	✓	
invantive-sql-correct-invalid-date	Whether to correct dates considered invalid since they are before 01-01-1753. When nullable, they are removed. Otherwise they are replaced by 01-01-1753.	SQL Engine V1	False	✓	✓	✓	
invantive-sql-execution-profile-disk-path	{res:itgen_pae_invantive_sql_execution_profile_disk_path}	SQL Engine V1		✓	✓	✓	
invantive-sql-execution-profile-to-disk	{res:itgen_pae_invantive_sql_execution_profile_to_disk}	SQL Engine V1	False	✓	✓	✓	
invantive-sql-forward-filters-to-data-containers	Whether to forward filters to data containers.	SQL Engine V1	True	✓	✓	✓	
invantive-sql-share-byte-arrays	Whether to share the memory used by identical byte arrays in result sets during compression.	SQL Engine V1	True	✓	✓	✓	
invantive-sql-share-strings	Whether to share the memory used by identical strings in result sets during compression.	SQL Engine V1	True	✓	✓	✓	
invantive-sql-shuffle-fetch-results-data-containers	Whether to shuffle results fetched from data containers.	SQL Engine V1	False	✓	✓	✓	
invantive-use-cache	Whether to cache the results of a query.	SQL Engine V1	True	✓	✓	✓	
join-set-points-per-request	Maximum number of values in a request when executing a join set.	OData	60	✓	✓	✓	
limit-partition-calls-left	Minimum number of remaining API calls on a partition towards a hard limit. When below, an error is raised.	OData	500	✓	✓	✓	
log-native-calls-to-disk-max-events	Maximum number of call events to register from last activation.	Shared		✓	✓	✓	
log-native-calls-to-disk-max-seconds	Maximum number of seconds to register calls from last activation.	Shared		✓	✓	✓	
log-native-calls-to-disk-on-error	Registers native calls to data container backend as disk files when the call raised an error.	Shared	False	✓	✓	✓	

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Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Drivers File	Set from Log On
log-native-calls-to-disk-on-success	Registers native calls to data container backend as disk files when the call raised no error.	Shared	False	✓	✓	✓	
log-native-calls-to-trace	Log native calls to data container backend on the trace.	Shared	False	✓	✓	✓	
maximum-length-identifiers	Non-default maximum length in characters of identifier names.	Shared		✓	✓	✓	
max-odata-filters	Maximum number of OData filter elements.	OData	100	✓	✓	✓	
max-odata-rewrite-in-count	{res:itgen_pae_max_odata_rewrite_in_count}	OData	500	✓	✓	✓	
max-url-length-accepted	The maximum accepted URL length before raising an error.		8000	✓	✓	✓	
max-url-length-desired	The maximum desired URL length.		8000	✓	✓	✓	
metadata-cache-max-age-sec	Maximum acceptable age in seconds for re-use of metadata.	OData		✓	✓	✓	
oauth-unauthorized-max-tries	Maximum number of tries when an OAuth exception occurs.		2	✓	✓	✓	
oauth-unauthorized-sleep-initial-ms	Initial sleep in milliseconds between OAuth reauthentication tries when the OAuth authentication fails.		10000	✓	✓	✓	
oauth-unauthorized-sleep-max-ms	Maximum sleep in milliseconds between OAuth reauthentication tries when the OAuth authentication fails.		1000	✓	✓	✓	
oauth-unauthorized-sleep-multiplicator	Multiplication factor for sleep between OAuth reauthentication tries when the OAuth authentication fails.		2	✓	✓	✓	
partition-slot-based-rate-limit-length-ms	Total length in milliseconds across all slots of a partition-based rate limit.	Shared	60000	✓		✓	
partition-slot-based-rate-limit-slots	Number of slots per partition-based rate limit. Null means no slot-based rate limit.	Shared		✓		✓	
pre-request-delay-ms	Pre-request delay in milliseconds per request.	Shared	0	✓	✓	✓	
requested-maximum-usable-partitions	Requested Maximum Usable Partitions	Shared		✓	✓	✓	
requested-page-size	Preferred number of rows to exchange per round trip; only effective on limited platforms such as AFAS Online.	Shared		✓	✓	✓	
requests-parallel-max	Maximum number of parallel data requests from individual partitions on the data container.	Shared	32	✓	✓	✓	
simulate-http-400-errors	Simulate HTTP 400 errors when exchanging results with the HTTP end-		False	✓	✓	✓	

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Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Drivers File	Set from Log On
	point.						
simulate-http-400-errors-percentage	Percentage of simulated HTTP 400 errors when exchanging results with the HTTP endpoint.		0	✓	✓	✓	
simulate-http-401-errors	Simulate HTTP 401 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
simulate-http-401-errors-percentage	Percentage of simulated HTTP 401 errors when exchanging results with the HTTP endpoint.		0	✓	✓	✓	
simulate-http-403-errors	Simulate HTTP 403 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
simulate-http-403-errors-percentage	Percentage of simulated HTTP 403 errors when exchanging results with the HTTP endpoint.		0	✓	✓	✓	
simulate-http-408-errors	Simulate HTTP 408 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
simulate-http-408-errors-percentage	Percentage of simulated HTTP 408 errors when exchanging results with the HTTP endpoint.		0	✓	✓	✓	
simulate-http-429-errors	Simulate HTTP 429 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
simulate-http-429-errors-percentage	Percentage of simulated HTTP 429 errors when exchanging results with the HTTP endpoint.		0	✓	✓	✓	
simulate-http-500-errors	Simulate HTTP 500 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
simulate-http-500-errors-percentage	Percentage of simulated HTTP 500 errors when exchanging results with the HTTP endpoint.		0	✓	✓	✓	
simulate-http-502-errors	Simulate HTTP 502 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
simulate-http-502-errors-percentage	Percentage of simulated HTTP 502 errors when exchanging results with the HTTP endpoint.		0	✓	✓	✓	
simulate-http-503-errors	Simulate HTTP 503 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
simulate-http-503-errors-percentage	Percentage of simulated HTTP 503 errors when exchanging results with the HTTP endpoint.		0	✓	✓	✓	
simulate-http-504-errors	{res:itgen_pae_simulate_http_504_errors}		False	✓	✓	✓	

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Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Drivers File	Set from Log On
simulate-http-504-errors-percentage	{res:itgen_pae_simulate_http_504_errors_percentage}		0	✓	✓	✓	
simulate-http-522-errors	{res:itgen_pae_simulate_http_522_errors}		False	✓	✓	✓	
simulate-http-522-errors-percentage	{res:itgen_pae_simulate_http_522_errors_percentage}		0	✓	✓	✓	
simulate-http-524-errors	{res:itgen_pae_simulate_http_524_errors}		False	✓	✓	✓	
simulate-http-524-errors-percentage	{res:itgen_pae_simulate_http_524_errors_percentage}		0	✓	✓	✓	
simulate-http-protocol-errors	Simulate HTTP protocol errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
simulate-http-protocol-errors-percentage	Percentage of simulated HTTP protocol errors when exchanging results with the HTTP endpoint.		0	✓	✓	✓	
simulate-http-timeout-errors	Simulate HTTP timeout errors when exchanging results with the HTTP endpoint..		False	✓	✓	✓	
simulate-http-timeout-errors-percentage	Percentage of simulated HTTP timeout errors when exchanging results with the HTTP endpoint.		0	✓	✓	✓	
slot-based-rate-limit-length-ms	Total length in milliseconds across all slots of a slot-based rate limit.	Shared	1000	✓		✓	
slot-based-rate-limit-slots	Number of slots of a slot-based rate limit. Null means no slot-based rate limit.	Shared	10	✓		✓	
standardize-identifiers	Rewrite all identifiers to the preferred standards as configured by standardize-identifiers-casing and maximum-length-identifiers.	Shared	True	✓	✓	✓	
standardize-identifiers-casing	Rewrite all identifiers to the recommended standard platform-specific casing when changing a data model on a case-dependent platform.	Shared	True	✓	✓	✓	
use-batch-insert	Whether to use batch insert.	OData	True	✓	✓	✓	
use-http-disk-cache	Combination of use-http-disk-cache-read and use-http-disk-cache-write.			✓	✓	✓	
use-http-disk-cache-read	Whether to use HTTP responses from previous queries stored on disk to answer the current query.		False	✓	✓	✓	
use-http-disk-cache-write	Whether to memorize HTTP responses on disk.		False	✓	✓	✓	
use-http-memory-cache	Combination of use-http-memory-cache-read and use-http-memory-cache-write.			✓	✓	✓	
use-http-memory-cache-read	Whether to use HTTP responses from previous queries stored in		True	✓	✓	✓	

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Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Drivers File	Set from Log On
	memory that can answer the current query.						
use-http-memory-cache-write	Whether to memorize HTTP responses from previous queries for use by future queries.		True	✓	✓	✓	

3 Catalog: Knack

3.1 Schemas

3.1.1 Schema: DataDictionary

3.1.1.1 Tables

ApplicationById: Knack Application by ID

Catalog: Knack

Schema: DataDictionary

Primary Keys: id

Label: Application by ID

This is a read-only table function. The Knack API may not support changing the data or the Invantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Parameters of Table Function

The following parameters can be used to control the behaviour of the table function ApplicationById. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a `select * from table(value1, value2, value3)` on a table with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with `select * from table(name1 => value1, name3 => value3)` on the same table will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
id	varchar2	☑		

Columns of Table Function

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The columns of the table function ApplicationById are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
account_beta_deadline	varchar2		☐	
account_billing_customer_id	varchar2		☐	
account_billing_notice_date	varchar2		☐	
account_billing_status	varchar2		☐	
account_clientid	varchar2		☐	
account_gclid	varchar2		☐	
account_id	varchar2		☐	
account_name	varchar2		☐	
account_plan_limits_storage	int64		☐	
account_plan_limits_transactions	int64		☐	
account_product_plan_ai_cred-it_limit_monthly	int64		☐	
account_product_plan_api_limit	int64		☐	
account_product_plan_apps	int64		☐	
account_product_plan_babu_unit	varchar2		☐	
account_product_plan_freeze_-cost	int64		☐	
account_product_plan_frequency	varchar2		☐	
account_product_plan_id	varchar2		☐	
account_product_plan_name	varchar2		☐	
account_product_plan_price	int64		☐	
account_product_plan_records	int64		☐	
account_product_plan_storage	varchar2		☐	
account_product_plan_subscrip-tion_id	varchar2		☐	
account_product_plan_transac-tions_amount	int64		☐	
account_product_plan_transac-tions_plan_id_prod	int64		☐	
account_product_plan_transac-tions_plan_id_test	int64		☐	
account_product_plan_type	varchar2		☐	
account_referral	varchar2		☐	
account_session_user_account_id	varchar2		☐	
account_session_user_cre-ated_on	datetime		☐	
account_session_user_email	varchar2		☐	
account_session_user_first_name	varchar2		☐	
account_session_user_id	varchar2		☐	
account_session_user_last_name	varchar2		☐	
account_session_user_utility_key	varchar2		☐	

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Name	Data Type	Label	Required	Documentation
account_settings_builder_default_version	varchar2		☐	
account_settings_flows_language	varchar2		☐	
account_settings_flows_timezone	varchar2		☐	
account_settings_region	varchar2		☐	
account_slug	varchar2		☐	
account_user_id	varchar2		☐	
asset_size	int64		☐	
count_A_B_C	int64		☐	
count_Accounts	int64		☐	
count_CompaniesExpanded	int64		☐	
count_ContactsExpanded	int64		☐	
count_DateTest	int64		☐	
count_Journals	int64		☐	
count_OrdersObject	int64		☐	
count_ProductsExpanded	int64		☐	
count_TestcaseIUDExpanded	int64		☐	
count_TestExpanded	int64		☐	
count_testpho	int64		☐	
description	varchar2		☐	
design_general_buttons_bg_color	varchar2		☐	
design_general_buttons_color	varchar2		☐	
design_general_font	varchar2		☐	
design_general_links_color	varchar2		☐	
design_general_menus_links_buttons_borderThickness	varchar2		☐	
design_general_menus_links_buttons_colors_fill_border_color	varchar2		☐	
design_general_menus_links_buttons_colors_outline_text_color	varchar2		☐	
design_general_menus_links_buttons_format	varchar2		☐	
design_general_tables_spacing	varchar2		☐	
design_general_tables_style	varchar2		☐	
design_general_views_links_delete_colors_button_color	varchar2		☐	
design_general_views_links_delete_colors_text_color	varchar2		☐	
design_general_views_links_page_icon_align	varchar2		☐	
design_regions_header_layout_menuPosition	varchar2		☐	
design_regions_header_legacy_settings_title_logo_filename	varchar2		☐	

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Name	Data Type	Label	Required	Documentation
design_regions_header_legacy_-settings_title_logo_height	int16		☐	
design_regions_header_legacy_-settings_title_logo_size	int64		☐	
design_regions_header_legacy_-settings_title_logo_url	varchar2		☐	
design_regions_header_legacy_-settings_title_logo_w idth	int16		☐	
design_regions_header_logo_icon-_icon	varchar2		☐	
design_regions_header_logo_im-age_height	int16		☐	
design_regions_header_logo_im-age_size	int64		☐	
design_regions_header_logo_im-age_url	varchar2		☐	
design_regions_header_logo_im-age_w idth_pct	int64		☐	
design_regions_header_logo_im-age_w idth	int16		☐	
design_regions_header_-menu_dropdow n_menu_links_-background_active_color_style	varchar2		☐	
design_regions_header_-menu_dropdow n_menu_links_-background_active_color	varchar2		☐	
design_regions_header_-menu_dropdow n_menu_links_-background_color	varchar2		☐	
design_regions_header_-menu_dropdow n_menu_links_tex-t_active_colorStyle	varchar2		☐	
design_regions_header_-menu_dropdow n_menu_links_tex-t_color	varchar2		☐	
design_regions_header_menu_-format	varchar2		☐	
design_regions_header_-menu_links_buttons_size	varchar2		☐	
design_regions_header_-menu_links_tabs_colors_back-ground_active_color	varchar2		☐	
design_regions_header_-menu_links_text_activeStyle	varchar2		☐	
design_regions_header_-menu_links_text_colors_color	varchar2		☐	
design_regions_header_menu_-mobile_menu_links_back-ground_active_colorStyle	varchar2		☐	
design_regions_header_menu_-mobile_menu_links_background_-color	varchar2		☐	

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Name	Data Type	Label	Required	Documentation
design_regions_header_title_text	varchar2		☐	
ecommerce_enabled	char		☐	
HERE_appCode	varchar2		☐	
HERE_appId	varchar2		☐	
home_scene_key	varchar2		☐	
home_scene_slug	varchar2		☐	
id	varchar2		☑	Unique ID.
layout_app_fullwidth	char		☐	
layout_app_menu_auth	char		☐	
layout_entry_scene_menu	char		☐	
layout_page_menu_style	varchar2		☐	
layout_theme	varchar2		☐	
logo_url	varchar2		☐	
name	varchar2		☑	
s3_application_cdn_domain	varchar2		☐	
s3_bucket	varchar2		☐	
s3_domain	varchar2		☐	
s3_secure_bucket	varchar2		☐	
s3_secure_domain	varchar2		☐	
settings_babu_preseed_status	varchar2		☐	
settings_embed_login_method	varchar2		☐	
settings_from_email	varchar2		☐	
settings_inactivity_timeout	int64		☐	
settings_last_update	varchar2		☐	
settings_logo	varchar2		☐	
settings_runner	varchar2		☐	
settings_sql	varchar2		☐	
settings_technical_contact	varchar2		☐	
settings_timezone_dst	int64		☐	
settings_timezone_offset	int64		☐	
slug	varchar2		☐	
status	varchar2		☐	
subdomain	varchar2		☐	
total_entries	int64		☐	
users_enabled	char		☐	
users_registration	varchar2		☐	
users_scope	varchar2		☐	
users_templates_all_users_info	varchar2		☐	
users_templates_profile_15_info	varchar2		☐	

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Applications: Knack Applications

Catalog: Knack

Schema: DataDictionary

Primary Keys: id

Label: Applications

This is a read-only table. The Knack API may not support changing the data or the Invantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Table Columns

The columns of the table Applications are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
account_beta_deadline	varchar2		☐	
account_billing_customer_id	varchar2		☐	
account_billing_notice_date	varchar2		☐	
account_billing_status	varchar2		☐	
account_clientid	varchar2		☐	
account_gclid	varchar2		☐	
account_id	varchar2		☐	
account_name	varchar2		☐	
account_plan_limits_storage	int64		☐	
account_plan_limits_transactions	int64		☐	
account_product_plan_ai_credit_limit_monthly	int64		☐	
account_product_plan_api_limit	int64		☐	
account_product_plan_apps	int64		☐	
account_product_plan_babu_unit	varchar2		☐	
account_product_plan_freeze_cost	int64		☐	
account_product_plan_frequency	varchar2		☐	
account_product_plan_id	varchar2		☐	
account_product_plan_name	varchar2		☐	
account_product_plan_price	int64		☐	
account_product_plan_records	int64		☐	
account_product_plan_storage	varchar2		☐	
account_product_plan_subscription_id	varchar2		☐	
account_product_plan_transactions_amount	int64		☐	
account_product_plan_transactions_plan_id_prod	int64		☐	
account_product_plan_transactions_plan_id_test	int64		☐	

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Name	Data Type	Label	Required	Documentation
account_product_plan_type	varchar2		☐	
account_referral	varchar2		☐	
account_session_user_account_id	varchar2		☐	
account_session_user_cre-ated_on	datetime		☐	
account_session_user_email	varchar2		☐	
account_session_user_first_name	varchar2		☐	
account_session_user_id	varchar2		☐	
account_session_user_last_name	varchar2		☐	
account_session_user_utility_key	varchar2		☐	
account_settings_builder_de-fault_version	varchar2		☐	
account_settings_flow s_language	varchar2		☐	
account_settings_flow s_timezone	varchar2		☐	
account_settings_region	varchar2		☐	
account_slug	varchar2		☐	
account_user_id	varchar2		☐	
asset_size	int64		☐	
count_A_B_C	int64		☐	
count_Accounts	int64		☐	
count_CompaniesExpanded	int64		☐	
count_ContactsExpanded	int64		☐	
count_DateTest	int64		☐	
count_Journals	int64		☐	
count_OrdersObject	int64		☐	
count_ProductsExpanded	int64		☐	
count_TestcaseIUDExpanded	int64		☐	
count_TestExpanded	int64		☐	
count_testpho	int64		☐	
description	varchar2		☐	
design_general_buttons_bg_color	varchar2		☐	
design_general_buttons_color	varchar2		☐	
design_general_font	varchar2		☐	
design_general_links_color	varchar2		☐	
design_general_menus_links_but-tons_borderThickness	varchar2		☐	
design_general_menus_links_but-tons_colors_fill_border_color	varchar2		☐	
design_general_menus_links_but-tons_colors_outline_text_color	varchar2		☐	
design_general_menus_links_but-tons_format	varchar2		☐	
design_general_tables_spacing	varchar2		☐	

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Name	Data Type	Label	Required	Documentation
design_general_tables_style	varchar2		☐	
design_general_views_links_delete_colors_button_color	varchar2		☐	
design_general_views_links_delete_colors_text_color	varchar2		☐	
design_general_views_links_page_icon_align	varchar2		☐	
design_regions_header_layout_menuPosition	varchar2		☐	
design_regions_header_legacy_settings_title_logo_filename	varchar2		☐	
design_regions_header_legacy_settings_title_logo_height	int16		☐	
design_regions_header_legacy_settings_title_logo_size	int64		☐	
design_regions_header_legacy_settings_title_logo_url	varchar2		☐	
design_regions_header_legacy_settings_title_logo_width	int16		☐	
design_regions_header_logo_icon_icon	varchar2		☐	
design_regions_header_logo_image_height	int16		☐	
design_regions_header_logo_image_size	int64		☐	
design_regions_header_logo_image_url	varchar2		☐	
design_regions_header_logo_image_width_pct	int64		☐	
design_regions_header_logo_image_width	int16		☐	
design_regions_header_menu_dropdown_menu_links_background_active_color_style	varchar2		☐	
design_regions_header_menu_dropdown_menu_links_background_active_color	varchar2		☐	
design_regions_header_menu_dropdown_menu_links_background_color	varchar2		☐	
design_regions_header_menu_dropdown_menu_links_text_active_colorStyle	varchar2		☐	
design_regions_header_menu_dropdown_menu_links_text_color	varchar2		☐	
design_regions_header_menu_format	varchar2		☐	
design_regions_header_menu_links_buttons_size	varchar2		☐	

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Name	Data Type	Label	Required	Documentation
design_regions_header_-menu_links_tabs_colors_back-ground_active_color	varchar2		☐	
design_regions_header_-menu_links_text_activeStyle	varchar2		☐	
design_regions_header_-menu_links_text_colors_color	varchar2		☐	
design_regions_header_menu_-mobile_menu_links_back-ground_active_colorStyle	varchar2		☐	
design_regions_header_menu_-mobile_menu_links_background_-color	varchar2		☐	
design_regions_header_title_text	varchar2		☐	
ecommerce_enabled	char		☐	
HERE_appCode	varchar2		☐	
HERE_appId	varchar2		☐	
home_scene_key	varchar2		☐	
home_scene_slug	varchar2		☐	
id	varchar2		☑	Unique ID.
layout_app_fullw idth	char		☐	
layout_app_menu_auth	char		☐	
layout_entry_scene_menu	char		☐	
layout_page_menu_style	varchar2		☐	
layout_theme	varchar2		☐	
logo_url	varchar2		☐	
name	varchar2		☑	
s3_application_cdn_domain	varchar2		☐	
s3_bucket	varchar2		☐	
s3_domain	varchar2		☐	
s3_secure_bucket	varchar2		☐	
s3_secure_domain	varchar2		☐	
settings_babu_preseed_status	varchar2		☐	
settings_embed_login_method	varchar2		☐	
settings_from_email	varchar2		☐	
settings_inactivity_timeout	int64		☐	
settings_last_update	varchar2		☐	
settings_logo	varchar2		☐	
settings_runner	varchar2		☐	
settings_sql	varchar2		☐	
settings_technical_contact	varchar2		☐	
settings_timezone_dst	int64		☐	
settings_timezone_offset	int64		☐	
slug	varchar2		☐	

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Name	Data Type	Label	Required	Documentation
status	varchar2		☐	
subdomain	varchar2		☐	
total_entries	int64		☐	
users_enabled	char		☐	
users_registration	varchar2		☐	
users_scope	varchar2		☐	
users_templates_all_users_info	varchar2		☐	
users_templates_profile_15_info	varchar2		☐	

ObjectFields

Catalog: Knack

Schema: DataDictionary

Primary Keys: id

This is a read-only table. The Knack API may not support changing the data or the Invantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Table Columns

The columns of the table ObjectFields are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
application_id	varchar2	Application ID	☑	
application_name	varchar2		☑	
code	varchar2		☐	Code.
conditional	char		☐	
conn_default	varchar2		☐	
default	varchar2		☐	
format_blank	varchar2		☐	
format_calendar	varchar2		☐	
format_conn_default	varchar2		☐	
format_connection_key	varchar2		☐	
format_connection	varchar2		☐	
format_count_field	varchar2		☐	
format_date_format	varchar2		☐	
format_date_result	varchar2		☐	
format_date_type	varchar2		☐	
format_default_date	varchar2		☐	
format_default_time	varchar2		☐	
format_default_type	varchar2		☐	
format_default	varchar2		☐	

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Name	Data Type	Label	Required	Documentation
format_enable_geocoding	varchar2		☐	
format_equation_type	varchar2		☐	
format_equation	varchar2		☐	
format_field_key	varchar2		☐	
format_format	varchar2		☐	
format_formula_field	varchar2		☐	
format_input	varchar2		☐	
format_label	varchar2		☐	
format_mark_decimal	varchar2		☐	
format_mark_thousands	varchar2		☐	
format_max	varchar2		☐	
format_method	varchar2		☐	
format_min	varchar2		☐	
format_post	varchar2		☐	
format_pre	varchar2		☐	
format_precision	int16		☐	
format_resize_max_w idth	int16		☐	
format_resize_type	varchar2		☐	
format_rounding	varchar2		☐	
format_separator	varchar2		☐	
format_sorting	varchar2		☐	
format_source	varchar2		☐	
format_target	varchar2		☐	
format_text_format	varchar2		☐	
format_text	varchar2		☐	
format_time_format	varchar2		☐	
format_time_type	varchar2		☐	
format_type	varchar2		☐	
id	varchar2		☐	Unique ID.
immutable	char		☐	
is_system_field	char		☐	
key	varchar2		☐	Key.
meta_description	varchar2		☐	
name	varchar2		☐	Name.
object_id	varchar2		☑	
object_key	varchar2		☑	
object_name	varchar2		☑	
relationship_belongs_to	varchar2		☐	
relationship_has	varchar2		☐	
relationship_object	varchar2		☐	
required	char		☐	

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Name	Data Type	Label	Required	Documentation
type	varchar2		☐	
unique	char		☐	
user	char		☐	

ObjectFieldsByApplicationId

Catalog: Knack

Schema: DataDictionary

Primary Keys: id

This is a read-only table function. The Knack API may not support changing the data or the Invantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Parameters of Table Function

The following parameters can be used to control the behaviour of the table function ObjectFieldsByApplicationId. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a `select * from table(value1, value2, value3)` on a table with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with `select * from table(name1 => value1, name3 => value3)` on the same table will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
id	varchar2	☑		

Columns of Table Function

The columns of the table function ObjectFieldsByApplicationId are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
application_id	varchar2	Application ID	☑	
application_name	varchar2		☑	
code	varchar2		☐	Code.
conditional	char		☐	
conn_default	varchar2		☐	
default	varchar2		☐	
format_blank	varchar2		☐	

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Name	Data Type	Label	Required	Documentation
format_calendar	varchar2		☐	
format_conn_default	varchar2		☐	
format_connection_key	varchar2		☐	
format_connection	varchar2		☐	
format_count_field	varchar2		☐	
format_date_format	varchar2		☐	
format_date_result	varchar2		☐	
format_date_type	varchar2		☐	
format_default_date	varchar2		☐	
format_default_time	varchar2		☐	
format_default_type	varchar2		☐	
format_default	varchar2		☐	
format_enable_geocoding	varchar2		☐	
format_equation_type	varchar2		☐	
format_equation	varchar2		☐	
format_field_key	varchar2		☐	
format_format	varchar2		☐	
format_formula_field	varchar2		☐	
format_input	varchar2		☐	
format_label	varchar2		☐	
format_mark_decimal	varchar2		☐	
format_mark_thousands	varchar2		☐	
format_max	varchar2		☐	
format_method	varchar2		☐	
format_min	varchar2		☐	
format_post	varchar2		☐	
format_pre	varchar2		☐	
format_precision	int16		☐	
format_resize_max_w idth	int16		☐	
format_resize_type	varchar2		☐	
format_rounding	varchar2		☐	
format_separator	varchar2		☐	
format_sorting	varchar2		☐	
format_source	varchar2		☐	
format_target	varchar2		☐	
format_text_format	varchar2		☐	
format_text	varchar2		☐	
format_time_format	varchar2		☐	
format_time_type	varchar2		☐	
format_type	varchar2		☐	
id	varchar2		☐	Unique ID.

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Name	Data Type	Label	Required	Documentation
immutable	char		☐	
is_system_field	char		☐	
key	varchar2		☐	Key.
meta_description	varchar2		☐	
name	varchar2		☐	Name.
object_id	varchar2		☑	
object_key	varchar2		☑	
object_name	varchar2		☑	
relationship_belongs_to	varchar2		☐	
relationship_has	varchar2		☐	
relationship_object	varchar2		☐	
required	char		☐	
type	varchar2		☐	
unique	char		☐	
user	char		☐	

ObjectFieldValidations

Catalog: Knack

Schema: DataDictionary

This is a read-only table. The Knack API may not support changing the data or the Invantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Table Columns

The columns of the table ObjectFieldValidations are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
application_id	varchar2	Application ID	☑	
application_name	varchar2		☑	
field_code	varchar2		☐	Field code.
field_id	varchar2		☐	Field unique ID.
field_key	varchar2		☐	Field key.
field_name	varchar2		☐	Field name.
key	varchar2		☐	Key.
message	varchar2		☐	Message.
object_id	varchar2		☑	
object_key	varchar2		☑	
object_name	varchar2		☑	
value	varchar2		☐	Value.

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ObjectFieldValidationsByApplicationId

Catalog: Knack

Schema: DataDictionary

This is a read-only table function. The Knack API may not support changing the data or the Invantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Parameters of Table Function

The following parameters can be used to control the behaviour of the table function ObjectFieldValidationsByApplicationId. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a `select * from table(value1, value2, value3)` on a table with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with `select * from table(name1 => value1, name3 => value3)` on the same table will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
id	varchar2	☑		

Columns of Table Function

The columns of the table function ObjectFieldValidationsByApplicationId are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
application_id	varchar2	Application ID	☑	
application_name	varchar2		☑	
field_code	varchar2		☐	Field code.
field_id	varchar2		☐	Field unique ID.
field_key	varchar2		☐	Field key.
field_name	varchar2		☐	Field name.
key	varchar2		☐	Key.
message	varchar2		☐	Message.
object_id	varchar2		☑	
object_key	varchar2		☑	
object_name	varchar2		☑	
value	varchar2		☐	Value.

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ObjectInboundConnections

Catalog: Knack

Schema: DataDictionary

This is a read-only table. The Knack API may not support changing the data or the Invantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Table Columns

The columns of the table ObjectInboundConnections are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
application_id	varchar2	Application ID	☑	
application_name	varchar2		☑	
belongs_to	varchar2		☑	
field_inflections_plural	varchar2		☑	
field_inflections_singular	varchar2		☑	
field_name	varchar2		☑	
has	varchar2		☑	
key	varchar2		☑	
name	varchar2		☑	
object_id	varchar2		☑	
object_key	varchar2		☑	
object_name	varchar2		☑	
object	varchar2		☑	

ObjectInboundConnectionsByApplicationId

Catalog: Knack

Schema: DataDictionary

This is a read-only table function. The Knack API may not support changing the data or the Invantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Parameters of Table Function

The following parameters can be used to control the behaviour of the table function ObjectInboundConnectionsByApplicationId. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a `select * from table(value1, value2, value3)` on a table with four parameters will use the default value for the fourth parameter and the specified values for the first three.

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Value specification by name is done by listing all values that require a value. For example with `select * from table(name1 => value1, name3 => value3)` on the same table will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
id	varchar2	☑		

Columns of Table Function

The columns of the table function ObjectInboundConnectionsByApplicationId are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
application_id	varchar2	Application ID	☑	
application_name	varchar2		☑	
belongs_to	varchar2		☑	
field_inflections_plural	varchar2		☑	
field_inflections_singular	varchar2		☑	
field_name	varchar2		☑	
has	varchar2		☑	
key	varchar2		☑	
name	varchar2		☑	
object_id	varchar2		☑	
object_key	varchar2		☑	
object_name	varchar2		☑	
object	varchar2		☑	

ObjectOutboundConnections

Catalog: Knack

Schema: DataDictionary

This is a read-only table. The Knack API may not support changing the data or the Invantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Table Columns

The columns of the table ObjectOutboundConnections are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
application_id	varchar2	Application ID	☑	
application_name	varchar2		☑	
belongs_to	varchar2		☑	
field_inflections_plural	varchar2		☑	

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Name	Data Type	Label	Required	Documentation
field_inflections_singular	varchar2		☑	
field_name	varchar2		☑	
has	varchar2		☑	
key	varchar2		☑	
name	varchar2		☑	
object_id	varchar2		☑	
object_key	varchar2		☑	
object_name	varchar2		☑	
object	varchar2		☑	

ObjectOutboundConnectionsByApplicationId

Catalog: Knack

Schema: DataDictionary

This is a read-only table function. The Knack API may not support changing the data or the Invantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Parameters of Table Function

The following parameters can be used to control the behaviour of the table function ObjectOutboundConnectionsByApplicationId. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a `select * from table(value1, value2, value3)` on a table with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with `select * from table(name1 => value1, name3 => value3)` on the same table will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
id	varchar2	☑		

Columns of Table Function

The columns of the table function ObjectOutboundConnectionsByApplicationId are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
application_id	varchar2	Application ID	☑	
application_name	varchar2		☑	

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Name	Data Type	Label	Required	Documentation
belongs_to	varchar2		☑	
field_inflections_plural	varchar2		☑	
field_inflections_singular	varchar2		☑	
field_name	varchar2		☑	
has	varchar2		☑	
key	varchar2		☑	
name	varchar2		☑	
object_id	varchar2		☑	
object_key	varchar2		☑	
object_name	varchar2		☑	
object	varchar2		☑	

ObjectRuleCriteria

Catalog: Knack

Schema: DataDictionary

This is a read-only table. The Knack API may not support changing the data or the Invantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Table Columns

The columns of the table ObjectRuleCriteria are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
application_id	varchar2	Application ID	☑	
application_name	varchar2		☑	
field_code	varchar2		☐	Field code.
field_id	varchar2		☐	Field unique ID.
field_key	varchar2		☐	Field key.
field_name	varchar2		☐	Field name.
field	varchar2		☐	Field.
object_id	varchar2		☑	
object_key	varchar2		☑	
object_name	varchar2		☑	
operator	varchar2		☐	operator.
rule_key	varchar2		☐	Rule key.
value_all_day	char		☐	Value all day.
value_am_pm	varchar2		☐	Value AM/PM.
value_date	varchar2		☐	Value date.
value_field	varchar2		☐	Value field.
value_hours	varchar2		☐	Value hours.

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Name	Data Type	Label	Required	Documentation
value_minutes	varchar2		☐	Value minutes.
value_time	varchar2		☐	Value time.
value_type	varchar2		☐	Value type.
value	varchar2		☐	Value.

ObjectRuleCriteriaByApplicationId

Catalog: Knack

Schema: DataDictionary

This is a read-only table function. The Knack API may not support changing the data or the Invantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Parameters of Table Function

The following parameters can be used to control the behaviour of the table function ObjectRuleCriteriaByApplicationId. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a `select * from table(value1, value2, value3)` on a table with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with `select * from table(name1 => value1, name3 => value3)` on the same table will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
id	varchar2	☑		

Columns of Table Function

The columns of the table function ObjectRuleCriteriaByApplicationId are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
application_id	varchar2	Application ID	☑	
application_name	varchar2		☑	
field_code	varchar2		☐	Field code.
field_id	varchar2		☐	Field unique ID.
field_key	varchar2		☐	Field key.
field_name	varchar2		☐	Field name.
field	varchar2		☐	Field.

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Name	Data Type	Label	Required	Documentation
object_id	varchar2		☑	
object_key	varchar2		☑	
object_name	varchar2		☑	
operator	varchar2		☐	operator.
rule_key	varchar2		☐	Rule key.
value_all_day	char		☐	Value all day.
value_am_pm	varchar2		☐	Value AM/PM.
value_date	varchar2		☐	Value date.
value_field	varchar2		☐	Value field.
value_hours	varchar2		☐	Value hours.
value_minutes	varchar2		☐	Value minutes.
value_time	varchar2		☐	Value time.
value_type	varchar2		☐	Value type.
value	varchar2		☐	Value.

ObjectRules

Catalog: Knack

Schema: DataDictionary

This is a read-only table. The Knack API may not support changing the data or the Invantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Table Columns

The columns of the table ObjectRules are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
action	varchar2		☐	Action.
application_id	varchar2	Application ID	☑	
application_name	varchar2		☑	
connection	varchar2		☐	Connection.
field_code	varchar2		☐	Field code.
field_id	varchar2		☐	Field unique ID.
field_key	varchar2		☐	Field key.
field_name	varchar2		☐	Field name.
key	varchar2		☐	Key.
object_id	varchar2		☑	
object_key	varchar2		☑	
object_name	varchar2		☑	

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ObjectRulesByApplicationId

Catalog: Knack

Schema: DataDictionary

This is a read-only table function. The Knack API may not support changing the data or the Invantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Parameters of Table Function

The following parameters can be used to control the behaviour of the table function ObjectRulesByApplicationId. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a `select * from table(value1, value2, value3)` on a table with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with `select * from table(name1 => value1, name3 => value3)` on the same table will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
id	varchar2	☑		

Columns of Table Function

The columns of the table function ObjectRulesByApplicationId are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
action	varchar2		☐	Action.
application_id	varchar2	Application ID	☑	
application_name	varchar2		☑	
connection	varchar2		☐	Connection.
field_code	varchar2		☐	Field code.
field_id	varchar2		☐	Field unique ID.
field_key	varchar2		☐	Field key.
field_name	varchar2		☐	Field name.
key	varchar2		☐	Key.
object_id	varchar2		☑	
object_key	varchar2		☑	
object_name	varchar2		☑	

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ObjectRuleValues

Catalog: Knack

Schema: DataDictionary

This is a read-only table. The Knack API may not support changing the data or the Invantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Table Columns

The columns of the table ObjectRuleValues are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
application_id	varchar2	Application ID	☑	
application_name	varchar2		☑	
connection_field	varchar2		☐	Connection field.
field_code	varchar2		☐	Field code.
field_id	varchar2		☐	Field unique ID.
field_key	varchar2		☐	Field key.
field_name	varchar2		☐	Field name.
field	varchar2		☐	Field.
input	varchar2		☐	Input.
object_id	varchar2		☑	
object_key	varchar2		☑	
object_name	varchar2		☑	
rule_key	varchar2		☐	Rule key.
type	varchar2		☐	Type.
value_all_day	char		☐	Value all day.
value_am_pm	varchar2		☐	Value AM/PM.
value_date	varchar2		☐	Value date.
value_hours	varchar2		☐	Value hours.
value_minutes	varchar2		☐	Value minutes.
value_time	varchar2		☐	Value time.
value	varchar2		☐	Value.

ObjectRuleValuesByApplicationId

Catalog: Knack

Schema: DataDictionary

This is a read-only table function. The Knack API may not support changing the data or the Invantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Parameters of Table Function

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The following parameters can be used to control the behaviour of the table function ObjectRuleValuesByApplicationId. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a `select * from table(value1, value2, value3)` on a table with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with `select * from table(name1 => value1, name3 => value3)` on the same table will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
id	varchar2	☑		

Columns of Table Function

The columns of the table function ObjectRuleValuesByApplicationId are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
application_id	varchar2	Application ID	☑	
application_name	varchar2		☑	
connection_field	varchar2		☐	Connection field.
field_code	varchar2		☐	Field code.
field_id	varchar2		☐	Field unique ID.
field_key	varchar2		☐	Field key.
field_name	varchar2		☐	Field name.
field	varchar2		☐	Field.
input	varchar2		☐	Input.
object_id	varchar2		☑	
object_key	varchar2		☑	
object_name	varchar2		☑	
rule_key	varchar2		☐	Rule key.
type	varchar2		☐	Type.
value_all_day	char		☐	Value all day.
value_am_pm	varchar2		☐	Value AM/PM.
value_date	varchar2		☐	Value date.
value_hours	varchar2		☐	Value hours.
value_minutes	varchar2		☐	Value minutes.
value_time	varchar2		☐	Value time.
value	varchar2		☐	Value.

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Objects: Knack Knack Objects

Catalog: Knack

Schema: DataDictionary

Primary Keys: id

Label: Knack Objects

This is a read-only table. The Knack API may not support changing the data or the Invantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Table Columns

The columns of the table Objects are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
application_id	varchar2	Application ID	☑	
application_name	varchar2		☑	
id	varchar2		☑	Unique ID.
identifier	varchar2		☐	
inflections_plural	varchar2		☐	
inflections_singular	varchar2		☐	
key	varchar2		☑	
name	varchar2		☑	
profile_key	varchar2		☐	
schema_change_in_progress	char		☐	
sort_field	varchar2		☐	
sort_order	varchar2		☐	
status	varchar2		☐	
template	varchar2		☐	
type	varchar2		☐	
user	char		☐	
uuid	guid		☐	

ObjectsByApplicationId

Catalog: Knack

Schema: DataDictionary

Primary Keys: id

This is a read-only table function. The Knack API may not support changing the data or the Invantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Parameters of Table Function

The following parameters can be used to control the behaviour of the table function ObjectsByApplicationId. A value must be provided at all times for required parameters, but optional

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parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a `select * from table(value1, value2, value3)` on a table with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with `select * from table(name1 => value1, name3 => value3)` on the same table will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
id	varchar2	☑		

Columns of Table Function

The columns of the table function ObjectsByApplicationId are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
application_id	varchar2	Application ID	☑	
application_name	varchar2		☑	
id	varchar2		☑	Unique ID.
identifier	varchar2		☐	
inflections_plural	varchar2		☐	
inflections_singular	varchar2		☐	
key	varchar2		☑	
name	varchar2		☑	
profile_key	varchar2		☐	
schema_change_in_progress	char		☐	
sort_field	varchar2		☐	
sort_order	varchar2		☐	
status	varchar2		☐	
template	varchar2		☐	
type	varchar2		☐	
user	char		☐	
uuid	guid		☐	

Scenes

Catalog: Knack

Schema: DataDictionary

Primary Keys: id

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This is a read-only table. The Knack API may not support changing the data or the Invantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Table Columns

The columns of the table Scenes are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
application_id	varchar2	Application ID	☑	
application_name	varchar2		☑	
authenticated	char		☐	
icon_align	varchar2		☐	
icon_icon	varchar2		☐	
id	varchar2		☑	Unique ID.
ignore_entry_scene_menu	char		☐	
key	varchar2		☑	
limit_profile_access	varchar2		☐	
menu	varchar2		☐	
modal_prevent_background_click_close	char		☐	
modal_prevent_background_click_closename	varchar2		☐	
modal	char		☐	
name	varchar2		☐	
object_key	varchar2		☐	
page_menu_display	varchar2		☐	
parent	varchar2		☐	
print	char		☐	
slug	varchar2		☐	
source_view	varchar2		☐	
type	varchar2		☐	
uuid	guid		☐	

ScenesByApplicationId

Catalog: Knack

Schema: DataDictionary

Primary Keys: id

This is a read-only table function. The Knack API may not support changing the data or the Invantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Parameters of Table Function

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The following parameters can be used to control the behaviour of the table function ScenesByApplicationId. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a `select * from table(value1, value2, value3)` on a table with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with `select * from table(name1 => value1, name3 => value3)` on the same table will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
id	varchar2	☑		

Columns of Table Function

The columns of the table function ScenesByApplicationId are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
application_id	varchar2	Application ID	☑	
application_name	varchar2		☑	
authenticated	char		☐	
icon_align	varchar2		☐	
icon_icon	varchar2		☐	
id	varchar2		☑	Unique ID.
ignore_entry_scene_menu	char		☐	
key	varchar2		☑	
limit_profile_access	varchar2		☐	
menu	varchar2		☐	
modal_prevent_background_click-_close	char		☐	
modal_prevent_background_click-_closename	varchar2		☐	
modal	char		☐	
name	varchar2		☐	
object_key	varchar2		☐	
page_menu_display	varchar2		☐	
parent	varchar2		☐	
print	char		☐	
slug	varchar2		☐	
source_view	varchar2		☐	
type	varchar2		☐	

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Name	Data Type	Label	Required	Documentation
uuid	guid		☐	

SceneViews

Catalog: Knack

Schema: DataDictionary

Primary Keys: id

This is a read-only table. The Knack API may not support changing the data or the Invantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Table Columns

The columns of the table SceneViews are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
action	varchar2		☐	
address_field_key	varchar2		☐	
alert	varchar2		☐	
allow _exporting	char		☐	
allow _limit	varchar2		☐	
allow _preset_filters	char		☐	
application_id	varchar2	Application ID	☑	
application_name	varchar2		☑	
cell_editor	varchar2		☐	
confirmation_confirmation_scene	varchar2		☐	
confirmation_confirmation_text	varchar2		☐	
confirmation_send_alert	varchar2		☐	
confirmation_type	varchar2		☐	
content	varchar2		☐	
default_range	varchar2		☐	
description	varchar2		☐	
details_filter_fields	varchar2		☐	
details_filter_type	varchar2		☐	
details_label_format	varchar2		☐	
details_layout	varchar2		☐	
details_list_layout	varchar2		☐	
details_title	varchar2		☐	
display_pagination_below	char		☐	
ecommerce	varchar2		☐	
events_allow _add	varchar2		☐	
events_display_type	varchar2		☐	

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Name	Data Type	Label	Required	Documentation
events_event_color_default	varchar2		☐	
events_event_field_key	varchar2		☐	
events_ical	varchar2		☐	
events_label_field_key	varchar2		☐	
events_show _details	varchar2		☐	
events_time_max	varchar2		☐	
events_time_min	varchar2		☐	
events_view	varchar2		☐	
events_w eek_start	varchar2		☐	
filter_connection_-sources_field_240_source_con-nection_key	varchar2		☐	
filter_connection_-sources_field_240_source_re-mote_key	varchar2		☐	
filter_connection_-sources_field_240_source_type	varchar2		☐	
filter_connection_-sources_field_4780_source_con-nection_key	varchar2		☐	
filter_connection_-sources_field_4780_source_re-mote_key	varchar2		☐	
filter_connection_-sources_field_4780_source_type	varchar2		☐	
filter_fields	varchar2		☐	
filter_type	varchar2		☐	
form_title	varchar2		☐	
format	varchar2		☐	
hide_empty	varchar2		☐	
hide_fields	varchar2		☐	
id	varchar2		☑	Unique ID.
ignore_reload	char		☐	
key	varchar2		☑	
keyw ord_search_fields	varchar2		☐	
keyw ord_search	char		☐	
label_format	varchar2		☐	
label	varchar2		☐	
layout	varchar2		☐	
limit_profile_access	char		☐	
list_layout	varchar2		☐	
list_w idth	int16		☐	
map_height	int16		☐	
map_w idth	int16		☐	

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Name	Data Type	Label	Required	Documentation
menu_links_design_active	varchar2		☐	
menu_links_design_buttons_colors_fill_background_color	varchar2		☐	
menu_links_design_buttons_colors_fill_text_color	varchar2		☐	
menu_links_design_tabs.border_thickness	varchar2		☐	
menu_links_design_tabs_border_thickness	varchar2		☐	
menu_links_design_tabs_colors_fill_background_color	varchar2		☐	
menu_links_design_tabs_colors_fill_border_color	varchar2		☐	
menu_links_design_tabs_colors_fill_border_custom	varchar2		☐	
menu_links_design_tabs_colors_fill_text_color	varchar2		☐	
menu_links_design_tabs_colors_fill_text_custom	varchar2		☐	
menu_links_design_tabs_colors_outline_text_color	varchar2		☐	
menu_links_design_tabs_format	varchar2		☐	
menu_links_design_tabs_size	varchar2		☐	
name	varchar2		☐	
no_data_text	varchar2		☐	
options_cell_editor	varchar2		☐	
parent	varchar2		☐	
pin_color_default	varchar2		☐	
registration_type	varchar2		☐	
reload_form_text	varchar2		☐	
results_label_format	varchar2		☐	
results_source_type	varchar2		☐	
results_type	varchar2		☐	
rows_per_page	int32		☐	
scene_id	varchar2		☑	
scene_key	varchar2		☑	
scene_name	varchar2		☑	
source_authenticated_user	varchar2		☐	
source_connection_key	varchar2		☐	
source_criteria_match	varchar2		☐	
source_limit	varchar2		☐	
source_object	varchar2		☐	
source_parent_source_connection	varchar2		☐	
source_parent_source_object	varchar2		☐	

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Name	Data Type	Label	Required	Documentation
source_relationship_type	varchar2		☐	
source_type	varchar2		☐	
starting_address	varchar2		☐	
starting_point	varchar2		☐	
submit_button_text	varchar2		☐	
table_design_active	char		☐	
table_design_spacing	varchar2		☐	
table_design_striped	char		☐	
table_design_style	varchar2		☐	
title_field_key	varchar2		☐	
title	varchar2		☐	
type	varchar2		☐	
units	varchar2		☐	

SceneViewsByApplicationId

Catalog: Knack

Schema: DataDictionary

Primary Keys: id

This is a read-only table function. The Knack API may not support changing the data or the Invantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Parameters of Table Function

The following parameters can be used to control the behaviour of the table function SceneViewsByApplicationId. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a `select * from table(value1, value2, value3)` on a table with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with `select * from table(name1 => value1, name3 => value3)` on the same table will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
id	varchar2	☑		

Columns of Table Function

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The columns of the table function SceneViewsByApplicationId are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
action	varchar2		☐	
address_field_key	varchar2		☐	
alert	varchar2		☐	
allow_exporting	char		☐	
allow_limit	varchar2		☐	
allow_preset_filters	char		☐	
application_id	varchar2	Application ID	☑	
application_name	varchar2		☑	
cell_editor	varchar2		☐	
confirmation_confirmation_scene	varchar2		☐	
confirmation_confirmation_text	varchar2		☐	
confirmation_send_alert	varchar2		☐	
confirmation_type	varchar2		☐	
content	varchar2		☐	
default_range	varchar2		☐	
description	varchar2		☐	
details_filter_fields	varchar2		☐	
details_filter_type	varchar2		☐	
details_label_format	varchar2		☐	
details_layout	varchar2		☐	
details_list_layout	varchar2		☐	
details_title	varchar2		☐	
display_pagination_below	char		☐	
ecommerce	varchar2		☐	
events_allow_add	varchar2		☐	
events_display_type	varchar2		☐	
events_event_color_default	varchar2		☐	
events_event_field_key	varchar2		☐	
events_ical	varchar2		☐	
events_label_field_key	varchar2		☐	
events_show_details	varchar2		☐	
events_time_max	varchar2		☐	
events_time_min	varchar2		☐	
events_view	varchar2		☐	
events_week_start	varchar2		☐	
filter_connection_-sources_field_240_source_con-nection_key	varchar2		☐	
filter_connection_-sources_field_240_source_re-	varchar2		☐	

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Name	Data Type	Label	Required	Documentation
mote_key				
filter_connection_-sources_field_240_source_type	varchar2		☐	
filter_connection_-sources_field_4780_source_con-nection_key	varchar2		☐	
filter_connection_-sources_field_4780_source_re-mote_key	varchar2		☐	
filter_connection_-sources_field_4780_source_type	varchar2		☐	
filter_fields	varchar2		☐	
filter_type	varchar2		☐	
form_title	varchar2		☐	
format	varchar2		☐	
hide_empty	varchar2		☐	
hide_fields	varchar2		☐	
id	varchar2		☑	Unique ID.
ignore_reload	char		☐	
key	varchar2		☑	
keyw ord_search_fields	varchar2		☐	
keyw ord_search	char		☐	
label_format	varchar2		☐	
label	varchar2		☐	
layout	varchar2		☐	
limit_profile_access	char		☐	
list_layout	varchar2		☐	
list_w idth	int16		☐	
map_height	int16		☐	
map_w idth	int16		☐	
menu_links_design_active	varchar2		☐	
menu_links_design_buttons_color-s_fill_background_color	varchar2		☐	
menu_links_design_buttons_color-s_fill_text_color	varchar2		☐	
menu_links_design_tabs.border-_thickness	varchar2		☐	
menu_links_design_tabs_border-_thickness	varchar2		☐	
menu_links_design_tabs_colors_-fill_background_color	varchar2		☐	
menu_links_design_tabs_colors_-fill_border_color	varchar2		☐	
menu_links_design_tabs_colors_-fill_border_custom	varchar2		☐	

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Name	Data Type	Label	Required	Documentation
menu_links_design_tabs_colors_-fill_text_color	varchar2		☐	
menu_links_design_tabs_colors_-fill_text_custom	varchar2		☐	
menu_links_design_tabs_color-s_outline_text_color	varchar2		☐	
menu_links_design_tabs_format	varchar2		☐	
menu_links_design_tabs_size	varchar2		☐	
name	varchar2		☐	
no_data_text	varchar2		☐	
options_cell_editor	varchar2		☐	
parent	varchar2		☐	
pin_color_default	varchar2		☐	
registration_type	varchar2		☐	
reload_form_text	varchar2		☐	
results_label_format	varchar2		☐	
results_source_type	varchar2		☐	
results_type	varchar2		☐	
row s_per_page	int32		☐	
scene_id	varchar2		☑	
scene_key	varchar2		☑	
scene_name	varchar2		☑	
source_authenticated_user	varchar2		☐	
source_connection_key	varchar2		☐	
source_criteria_match	varchar2		☐	
source_limit	varchar2		☐	
source_object	varchar2		☐	
source_parent_source_connection	varchar2		☐	
source_parent_source_object	varchar2		☐	
source_relationship_type	varchar2		☐	
source_type	varchar2		☐	
starting_address	varchar2		☐	
starting_point	varchar2		☐	
submit_button_text	varchar2		☐	
table_design_active	char		☐	
table_design_spacing	varchar2		☐	
table_design_striped	char		☐	
table_design_style	varchar2		☐	
title_field_key	varchar2		☐	
title	varchar2		☐	
type	varchar2		☐	
units	varchar2		☐	

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3.1.2 Schema: Journal_Details

3.1.2.1 Tables

Journal_DetailsById

Catalog: Knack

Schema: Journal_Details

This is a read-only table function. The Knack API may not support changing the data or the Invantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Parameters of Table Function

The following parameters can be used to control the behaviour of the table function Journal_DetailsById. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a predefined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a `select * from table(value1, value2, value3)` on a table with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with `select * from table(name1 => value1, name3 => value3)` on the same table will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
id	varchar2	☑		

Columns of Table Function

The columns of the table function Journal_DetailsById are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
DUMMY	varchar2		☑	Default column added since the specification specifies that no data is returned.
record_id	varchar2		☑	

3.1.3 Schema: Journals

3.1.3.1 Tables

Journals: Knack Table

Catalog: Knack

Schema: Journals

Label: Table

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This is a read-only view. The Knack API may not support changing the data or the Invantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

View Columns

The columns of the view Journals are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
Code	varchar2		☐	{"type":"short_text","required":true,"unique":true,"user":false,"conditional":false,"rules":[],"validation":[{"message":"test asdasdadas","criteria":[{"field":"field_1","value":"15","operator":"character count is higher than"}]}],"_id":"5f6840a44395f40015a2edb9","name":"Code","key":"field_1","object_key":"object_1","relationship":null,"format":null,"default":"","immutable":null}
Description	varchar2		☐	{"type":"short_text","required":true,"unique":true,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6840e94395f40015a2ee69","name":"Description","key":"field_2","object_key":"object_1","relationship":null,"format":null,"default":"","immutable":null}
record_id	varchar2		☑	

3.1.4 Schema: Native

3.1.4.1 Tables

NATIVEPLATFORMSCALARREQUESTS: Knack Native Platform Scalar Requests

{res:itgen_native_platform_scalar_requests_desc}

Catalog: Knack

Schema: Native

Alias: `npt`

Label: Native Platform Scalar Requests

Documentation:

The NativePlatformScalarRequests table provides direct access to the native API protocol over an established connection to the Knack API server. It will contain a new row for every row inserted with a native API request in PAYLOAD_TEXT with the results of unaltered forwarding of the payload to the Knack API server.

Retrieve: true

Insert: true

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Update: false

Delete: false

View Columns

The columns of the view NATIVEPLATFORMSCALARREQUESTS are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert.

Name	Data Type	Label	Required	Documentation
BLOB_PREFERRED	char	BLOB Preferred	☑	Indicator w hether a BLOB result is preferred over text.
BOL_RESPONSE_CACHE_MAX_AGE_SEC	int32	Response Cache Maximum Age (sec)	☐	Maximum age in seconds of Bridge Online response cache entries to be used.
CONTENT_TYPE	varchar2(240)	Content Type	☐	
DATE_ENDED	datetime	End Date	☑	
DATE_STARTED	datetime	Start Date	☑	
DRY_RUN	char	Run w ithout Actions	☑	
DURATION_MS	int64	Duration (ms)	☑	
ERROR_MESSAGE_CODE	varchar2(30)	Error Message Code	☐	
ERROR_MESSAGE_TEXT	varchar2(32000)	Error Message Text	☐	
FAIL_ON_ERROR	char	Fail on Error	☑	Whether to raise an exception w hen processing the native request triggered an error from the provider.
HTTP_DISK_CACHE_MAX_AGE_SEC	int32	HTTP Disk Cache Maximum Age (sec)	☐	Maximum age in seconds of HTTP disk cache entries to be used.
HTTP_DISK_CACHE_SAVE	char	Save HTTP Disk Cache	☐	Whether results can be stored in HTTP disk cache.
HTTP_DISK_CACHE_USE	char	Use HTTP Disk Cache	☐	Whether results can be fetched from HTTP disk cache.
HTTP_MEMORY_CACHE_MAX_AGE_SEC	int32	HTTP Memory Cache Maximum Age (sec)	☐	Maximum age in seconds of HTTP memory cache entries to be used.
HTTP_MEMORY_CACHE_SAVE	char	Save HTTP Memory Cache	☐	Whether results can be stored in HTTP memory cache.
HTTP_MEMORY_CACHE_USE	char	Use HTTP Memory Cache	☐	Whether results can be fetched from HTTP memory cache.
HTTP_METHOD	varchar2(30)	HTTP Method	☐	
HTTP_STATUS_CODE	numeric	HTTP Status Code	☐	
ORIG_SYSTEM_GROUP	varchar2(4000)	Original System Group	☐	
ORIG_SYSTEM_REFERENCE	varchar2(4000)	Original System Reference	☐	
PAYLOAD_TEXT	varchar2	Payload	☐	
RESULT_BLOB	blob	Result BLOB	☐	
RESULT_DATE_TIME_UTC	datetime	Result Date Time	☐	

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Name	Data Type	Label	Required	Documentation
RESULT_NUMBER	number	Result Number	☐	
RESULT_TEXT	varchar2	Result Text	☐	
SUCCESSFUL	char	Succesful	☑	
TIMEOUT_SEC	int32	Timeout (sec)	☐	Timeout in seconds.
TRANSACTION_ID	int64	Transaction ID	☑	Incrementing ID of the transaction.
URL	varchar2(4000)	URL	☐	

3.1.5 Schema: Objects

3.1.5.1 Tables

A_B_C: Knack A B Cs

Catalog: Knack

Schema: Objects

Primary Keys: record_id

Label: A B Cs

Can retrieve data and change data using insert, update and delete.

Table Columns

The columns of the table A_B_C are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert and update.

Name	Data Type	Label	Required	Documentation
A_B_C_Name	varchar2		☐	{"type":"short_text","required":true,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f69b739416e-b600150fce65","name":"A B C Name","key":"field_36","object_key":null,"relationship":null,"format":null,"default":null,"immutable":null}
Record_ID_1	varchar2		☐	{"type":"short_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"696a8b987297d-f53c6ed6de5","name":"Record ID","key":"field_98","object_key":null,"relationship":null,"format":null,"default":null,"immutable":true}
record_id	varchar2		☑	

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Accounts: Knack Accounts

Catalog: Knack

Schema: Objects

Primary Keys: record_id

Label: Accounts

Can retrieve data and change data using insert, update and delete.

Table Columns

The columns of the table Accounts are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert and update.

Name	Data Type	Label	Required	Documentation
Email_email	varchar2		☐	
Email_label	varchar2		☐	
Name_firstname	varchar2		☐	
Name_lastname	varchar2		☐	
Name_middlename	varchar2		☐	
Name_title	varchar2		☐	
Passw ord	varchar2		☐	{"type":"passw ord","re-quired":true,"unique":false,"user":true,"conditional":false,"rules":[],"validation":[],"_id":"5f68418d07138e0015c9974b","name":"Pass-w ord","key":"field_5","ob-ject_key":null,"relation-ship":null,"format":null,"de-fault":null,"immutable":true}
Record_ID_1	varchar2		☐	{"type":"short_text","re-quired":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"696a8b987297d-f53c6ed6ddf","name":"Record ID","key":"field_95","ob-ject_key":null,"relation-ship":null,"format":null,"de-fault":null,"immutable":true}
record_id	varchar2		☑	
User_Roles	varchar2		☐	{"type":"user_roles","re-quired":false,"unique":false,"user":true,"conditional":false,"rules":[],"validation":[],"_id":"5f68418d07138e0015c9974d","name":"User Roles","key":"field_7","ob-ject_key":null,"relation-ship":null,"format":null,"de-fault":null,"immutable":true}
User_Status	varchar2		☐	{"type":"multiple_choice","re-quired":true,"unique":false,"user":true,"conditional":false,"rules":

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Name	Data Type	Label	Required	Documentation
				[],"validation": [],"_id":"5f68418d07138e0015c9974c","name":"User Status","key":"field_6","object_key":null,"relationship":null,"format":{"input":null,"conn_default":null,"default":"active","sorting":null,"type":"single","options":["active","inactive","pending approval"],"format":null,"mark_decimal":null,"mark_thousands":null,"precision":null,"rounding":null,"show_commas":null,"pre":null,"post":null,"text_format":null,"label":null,"enable_geocoding":false,"equation_type":null},"default":null,"immutable":true}

Companies: Knack Companies

Catalog: Knack

Schema: Objects

Primary Keys: record_id

Label: Companies

Can retrieve data and change data using insert, update and delete.

Table Columns

The columns of the table Companies are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert and update.

Name	Data Type	Label	Required	Documentation
Address_city	varchar2		☐	
Address_state	varchar2		☐	
Address_street	varchar2		☐	
Address_street2	varchar2		☐	
Address_zip	varchar2		☐	
Companies_Name	varchar2		☐	{"type":"short_text","required":true,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6a3c1cd276730015600269","name":"Companies Name","key":"field_40","object_key":null,"relationship":null,"format":null,"default":null,"immutable":null}
Description	varchar2		☐	{"type":"paragraph_text","required":false,"unique":false,"user

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Name	Data Type	Label	Required	Documentation
				":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6a3c1d-d27673001560026d","name":"Description","key":"field_44","object_key":null,"relationship":null,"format":null,"default":null,"immutable":null}
Industry	varchar2		☐	{"type":"multiple_choice","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6a3c1d-d27673001560026c","name":"Industry","key":"field_43","object_key":null,"relationship":null,"format":{"input":null,"conn_default":null,"default":"kn-blank","sorting":"alphabetical","type":"single","options":["Education","Entertainment","Heathcare","Government","Technology"],"format":null,"mark_decimal":null,"mark_thousands":null,"precision":null,"rounding":null,"show_commas":null,"pre":null,"post":null,"text_format":null,"label":null,"enable_geocoding":false,"equation_type":null},"default":null,"immutable":null}
Logo_filename	varchar2		☐	
Logo_s3	char		☐	
Logo_size	int32		☐	
Logo_thumb_url	varchar2		☐	
Logo_type	varchar2		☐	
Logo_url	varchar2		☐	
Notes	varchar2		☐	{"type":"paragraph_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6a3c1dd276730015600270","name":"Notes","key":"field_47","object_key":null,"relationship":null,"format":null,"default":null,"immutable":null}
Phone	varchar2		☐	
Record_ID_1	varchar2		☐	{"type":"short_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"696a8b987297df53c6ed6de7","name":"Record ID","key":"field_99","object_key":null,"relationship":null,"format":null,"default":null,"immutable":true}

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Name	Data Type	Label	Required	Documentation
record_id	varchar2		☑	
Website_label	varchar2		☐	
Website_url	varchar2		☐	

CompaniesExpanded: Knack Companies

Catalog: Knack

Schema: Objects

Primary Keys: record_id

Label: Companies

Can retrieve data and change data using insert, update and delete.

Table Columns

The columns of the table CompaniesExpanded are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert and update.

Name	Data Type	Label	Required	Documentation
Address_city	varchar2		☐	
Address_state	varchar2		☐	
Address_street	varchar2		☐	
Address_street2	varchar2		☐	
Address_zip	varchar2		☐	
Companies_Name	varchar2		☐	{"type":"short_text","required":true,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6a3c1cd276730015600269","name":"Companies Name","key":"field_40","object_key":null,"relationship":null,"format":null,"default":null,"immutable":null}
Description	varchar2		☐	{"type":"paragraph_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6a3c1dd27673001560026d","name":"Description","key":"field_44","object_key":null,"relationship":null,"format":null,"default":null,"immutable":null}
Industry	varchar2		☐	{"type":"multiple_choice","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6a3c1dd27673001560026c","name":"Industry","key":"field_43","object_key":null,"relationship":null,"format":{"in-

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Name	Data Type	Label	Required	Documentation
				put":null,"conn_default":null,"default":"kn-blank","sorting":"alphabetical","type":"single","options":["Education","Entertainment","Heathcare","Government","Technology"],"format":null,"mark_decimal":null,"mark_thousands":null,"precision":null,"rounding":null,"show_commas":null,"pre":null,"post":null,"text_format":null,"label":null,"enable_geocoding":false,"equation_type":null},"default":null,"immutable":null}
Logo_data	blob		☐	
Logo_filename	varchar2		☐	
Logo_s3	char		☐	
Logo_size	int32		☐	
Logo_thumb_url	varchar2		☐	
Logo_type	varchar2		☐	
Logo_url	varchar2		☐	
Notes	varchar2		☐	{"type":"paragraph_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6a3c1dd276730015600270","name":"Notes","key":"field_47","object_key":null,"relationship":null,"format":null,"default":null,"immutable":null}
Phone	varchar2		☐	
Record_ID_1	varchar2		☐	{"type":"short_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"696a8b987297df53c6ed6de7","name":"Record ID","key":"field_99","object_key":null,"relationship":null,"format":null,"default":null,"immutable":true}
record_id	varchar2		☑	
Website_label	varchar2		☐	
Website_url	varchar2		☐	

Contacts: Knack Contacts

Catalog: Knack

Schema: Objects

Primary Keys: record_id

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Label: Contacts

Can retrieve data and change data using insert, update and delete.

Table Columns

The columns of the table Contacts are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert and update.

Name	Data Type	Label	Required	Documentation
Address_city	varchar2		☐	
Address_state	varchar2		☐	
Address_street	varchar2		☐	
Address_street2	varchar2		☐	
Address_zip	varchar2		☐	
Birthday	datetime		☐	
Company_id	varchar2		☐	
Company_identifier	varchar2		☐	
Contacts_Name	varchar2		☐	{"type":"short_text","required":true,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6a3c27e5ae-f10018c5203b","name":"Contacts Name","key":"field_48","object_key":null,"relationship":null,"format":null,"default":null,"immutable":null}
Email_email	varchar2		☐	
Email_label	varchar2		☐	
Gender	varchar2		☐	{"type":"multiple_choice","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6a3c27e5ae-f10018c5203e","name":"Gender","key":"field_51","object_key":null,"relationship":null,"format":{"input":null,"conn_default":null,"default":"kn-blank","sorting":"alphabetical","type":"single","options":["Female","Male"],"format":null,"mark_decimal":null,"mark_thousands":null,"precision":null,"rounding":null,"show_commas":null,"pre":null,"post":null,"text_format":null,"label":null,"enable_geocoding":false,"equation_type":null},"default":null,"immutable":null}
Image_filename	varchar2		☐	
Image_s3	char		☐	

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Name	Data Type	Label	Required	Documentation
Image_size	int32		☐	
Image_thumb_url	varchar2		☐	
Image_type	varchar2		☐	
Image_url	varchar2		☐	
Notes	varchar2		☐	{"type":"paragraph_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6a3c27e5aef10018c52044","name":"Notes","key":"field_56","object_key":null,"relationship":null,"format":null,"default":null,"immutable":null}
Occupation	varchar2		☐	{"type":"short_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6a3c27e5aef10018c52040","name":"Occupation","key":"field_52","object_key":null,"relationship":null,"format":null,"default":null,"immutable":null}
Phone	varchar2		☐	
Record_ID_1	varchar2		☐	{"type":"short_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"696a8b987297df53c6ed6de9","name":"Record ID","key":"field_100","object_key":null,"relationship":null,"format":null,"default":null,"immutable":true}
record_id	varchar2		☑	

ContactsExpanded: Knack Contacts

Catalog: Knack

Schema: Objects

Primary Keys: record_id

Label: Contacts

Can retrieve data and change data using insert, update and delete.

Table Columns

The columns of the table ContactsExpanded are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert and update.

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Name	Data Type	Label	Required	Documentation
Address_city	varchar2		☐	
Address_state	varchar2		☐	
Address_street	varchar2		☐	
Address_street2	varchar2		☐	
Address_zip	varchar2		☐	
Birthday	datetime		☐	
Company_id	varchar2		☐	
Company_identifier	varchar2		☐	
Contacts_Name	varchar2		☐	{"type":"short_text","required":true,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6a3c27e5aef10018c5203b","name":"Contacts Name","key":"field_48","object_key":null,"relationship":null,"format":null,"default":null,"immutable":null}
Email_email	varchar2		☐	
Email_label	varchar2		☐	
Gender	varchar2		☐	{"type":"multiple_choice","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6a3c27e5aef10018c5203e","name":"Gender","key":"field_51","object_key":null,"relationship":null,"format":{"input":null,"conn_default":null,"default":"kn-blank","sorting":"alphabetical","type":"single","options":["Female","Male"],"format":null,"mark_decimal":null,"mark_thousands":null,"precision":null,"rounding":null,"show_commas":null,"pre":null,"post":null,"text_format":null,"label":null,"enable_geocoding":false,"equation_type":null},"default":null,"immutable":null}
Image_data	blob		☐	
Image_filename	varchar2		☐	
Image_s3	char		☐	
Image_size	int32		☐	
Image_thumb_url	varchar2		☐	
Image_type	varchar2		☐	
Image_url	varchar2		☐	
Notes	varchar2		☐	{"type":"paragraph_text","required":false,"unique":false,"user":false,"conditional":false,"rules":

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Name	Data Type	Label	Required	Documentation
				[],"validation": [],"_id":"5f6a3c27e5ae-f10018c52044","name":"Notes","key":"field_56","ob-ject_key":null,"relation-ship":null,"format":null,"de-fault":null,"immutable":null}
Occupation	varchar2		☐	{"type":"short_text","re-quired":false,"unique":false,"user":false,"conditional":false,"rules": [],"validation": [],"_id":"5f6a3c27e5ae-f10018c52040","name":"Occupa-tion","key":"field_52","ob-ject_key":null,"relation-ship":null,"format":null,"de-fault":null,"immutable":null}
Phone	varchar2		☐	
Record_ID_1	varchar2		☐	{"type":"short_text","re-quired":false,"unique":false,"user":false,"conditional":false,"rules": [],"validation": [],"_id":"696a8b987297d-f53c6ed6de9","name":"Record ID","key":"field_100","ob-ject_key":null,"relation-ship":null,"format":null,"de-fault":null,"immutable":true}
record_id	varchar2		☑	

DateTest: Knack DateTests

Catalog: Knack

Schema: Objects

Primary Keys: record_id

Label: DateTests

Can retrieve data and change data using insert, update and delete.

Table Columns

The columns of the table DateTest are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert and update.

Name	Data Type	Label	Required	Documentation
a	datetime		☐	
n	decimal		☐	{"type":"number","re-quired":true,"unique":false,"user":false,"conditional":false,"rules": [],"validation": [],"_id":"5f75ab841049610018c102a2","name":"n","key":"field_81","object_key":"object_10","rela-

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Name	Data Type	Label	Required	Documentation
				tionship":null,"format":{"input":null,"conn_default":null,"default":null,"sorting":null,"type":null,"options":null,"format":"none","mark_decimal":"none","mark_thousands":"none","precision":"1","rounding":"up","show_commas":null,"pre":null,"post":null,"text_format":null,"label":null,"enable_geocoding":false,"equation_type":null},"default":"","immutable":null}
Name_firstname	varchar2		☐	
Name_lastname	varchar2		☐	
Name_middlename	varchar2		☐	
Name_title	varchar2		☐	
Record_ID_1	varchar2		☐	{"type":"short_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"696a8b987297df53c6ed6def","name":"Record ID","key":"field_103","object_key":null,"relationship":null,"format":null,"default":null,"immutable":true}
record_id	varchar2		☑	
t	varchar2		☐	{"type":"short_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f748b2c3b51ec00186778c5","name":"t","key":"field_79","object_key":"object_10","relationship":null,"format":null,"default":"","immutable":null}

Journals: Knack Journals

Catalog: Knack

Schema: Objects

Primary Keys: record_id

Label: Journals

Can retrieve data and change data using insert, update and delete.

Table Columns

The columns of the table Journals are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert and update.

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Name	Data Type	Label	Required	Documentation
Code	varchar2		☐	{"type":"short_text","required":true,"unique":true,"user":false,"conditional":false,"rules":[],"validation":[{"message":"test asdasdadas","criteria":[{"field":"field_1","value":"15","operator":"character count is higher than"}]}],"_id":"5f6840a44395f40015a2edb9","name":"Code","key":"field_1","object_key":"object_1","relationship":null,"format":null,"default":"","immutable":null}
Company_id	varchar2		☐	
Company_identifier	varchar2		☐	
Description	varchar2		☐	{"type":"short_text","required":true,"unique":true,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6840e94395f40015a2ee69","name":"Description","key":"field_2","object_key":"object_1","relationship":null,"format":null,"default":"","immutable":null}
Multiple_Choice	varchar2		☐	
Record_ID_1	varchar2		☐	{"type":"short_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"696a8b977297df53c6ed6ddd","name":"Record ID","key":"field_94","object_key":null,"relationship":null,"format":null,"default":null,"immutable":true}
record_id	varchar2		☑	
Text_Formula	varchar2		☐	{"type":"concatenation","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f75c36f8281580016c0b2b3","name":"Text Formula","key":"field_85","object_key":"object_1","relationship":null,"format":{"input":null,"conn_default":null,"default":null,"sorting":null,"type":null,"options":null,"format":null,"mark_decimal":null,"mark_thousands":null,"precision":null,"rounding":null,"show_commas":null,"pre":null,"post":null,"text_format":null,"label":null,"enable_geocoding":false,"equation_type":"numeric"},"default":null,"immutable":null}

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JournalsMultiple_Choice: Knack Multiple choices for Journals

Catalog: Knack

Schema: Objects

Primary Keys: record_id

Label: Multiple choices for Journals

Can retrieve data and change data using insert, update and delete.

Table Columns

The columns of the table JournalsMultiple_Choice are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert and update.

Name	Data Type	Label	Required	Documentation
record_id	varchar2		☑	
value	varchar2		☑	

OrdersObject: Knack OrdersObjects

Catalog: Knack

Schema: Objects

Primary Keys: record_id

Label: OrdersObjects

Can retrieve data and change data using insert, update and delete.

Table Columns

The columns of the table OrdersObject are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert and update.

Name	Data Type	Label	Required	Documentation
Customer	varchar2		☐	{"type":"short_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6a3c3070cee-b00154426b4","name":"Customer","key":"field_66","object_key":"object_8","relationship":null,"format":null,"default":null,"immutable":null}
Description	varchar2		☐	{"type":"paragraph_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6a3c2f70cee-b00154426ac","name":"Descrip-

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Name	Data Type	Label	Required	Documentation
				tion","key":"field_60","object_key":"object_8","relationship":null,"format":null,"default":null,"immutable":null}
Order_Date	datetime		☐	
Order_ID	decimal		☐	{"type":"auto_increment","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6a3c2f70ceeb00154426aa","name":"Order ID","key":"field_58","object_key":"object_8","relationship":null,"format":null,"default":null,"immutable":null}
Orders_Name	varchar2		☐	{"type":"short_text","required":true,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6a3c2f70ceeb00154426a8","name":"Orders Name","key":"field_57","object_key":"object_8","relationship":null,"format":null,"default":null,"immutable":null}
Product_Name	varchar2		☐	{"type":"short_text","required":true,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f75c2d9d178b10015c386f8","name":"Product Name","key":"field_83","object_key":"object_8","relationship":null,"format":null,"default":"","immutable":null}
Record_ID_1	varchar2		☐	{"type":"short_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"696a8b987297df53c6ed6deb","name":"Record ID","key":"field_101","object_key":null,"relationship":null,"format":null,"default":null,"immutable":true}
record_id	varchar2		☑	
Ship_Date	datetime		☐	
Ship_Type	varchar2		☐	{"type":"multiple_choice","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6a3c3070ceeb00154426b3","name":"Ship Type","key":"field_65","object_key":"object_8","relationship":null,"format":{"input":null,"conn_default":null,"default":"kn-blank","sorting":"alphabetical","type":"single","options":

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Name	Data Type	Label	Required	Documentation
				["Same Day","Next Day","Standard"],"format":null,"mark_decimal":null,"mark_thousands":null,"precision":null,"rounding":null,"show_commas":null,"pre":null,"post":null,"text_format":null,"label":null,"enable_geocoding":false,"equation_type":null},"default":null,"immutable":null}
Shipping_Address_city	varchar2		☐	
Shipping_Address_state	varchar2		☐	
Shipping_Address_street	varchar2		☐	
Shipping_Address_street2	varchar2		☐	
Shipping_Address_zip	varchar2		☐	
Status	varchar2		☐	{"type":"multiple_choice","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6a3c2f70ceeb00154426ab","name":"Status","key":"field_59","object_key":"object_8","relationship":null,"format":{"input":null,"conn_default":null,"default":"kn-blank","sorting":"alphabetical","type":"single","options":["New","Active","Shipped","Returned"],"format":null,"mark_decimal":null,"mark_thousands":null,"precision":null,"rounding":null,"show_commas":null,"pre":null,"post":null,"text_format":null,"label":null,"enable_geocoding":false,"equation_type":null},"default":null,"immutable":null}
Total	decimal		☐	{"type":"currency","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6a3c2f70ceeb00154426ad","name":"Total","key":"field_61","object_key":"object_8","relationship":null,"format":{"input":null,"conn_default":null,"default":null,"sorting":null,"type":null,"options":null,"format":"$","mark_decimal":null,"mark_thousands":null,"precision":null,"rounding":null,"show_commas":null,"pre":null,"post":null,"text_format":null,"label":null,"enable_geocoding":false,"equa-

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Name	Data Type	Label	Required	Documentation
				tion_type":null},"default":null,"im-mutable":null}

Payments: Knack Payments

Catalog: Knack

Schema: Objects

Primary Keys: record_id

Label: Payments

Can retrieve data and change data using insert, update and delete.

Table Columns

The columns of the table Payments are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert and update.

Name	Data Type	Label	Required	Documentation
Account_id	varchar2		☐	
Account_identifier	varchar2		☐	
Amount	decimal		☐	{"type":"currency","re-quired":true,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6a3c-c770cee-b00154427a5","name":"Amount","key":"field_68","ob-ject_key":null,"relation-ship":null,"format":null,"de-fault":null,"immutable":true}
Charge	varchar2		☐	{"type":"concatenation","re-quired":true,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6a3c-c770cee-b00154427a4","name":"Charge","key":"field_67","ob-ject_key":null,"relation-ship":null,"format":{"in-put":null,"conn_default":null,"de-fault":null,"sort-ing":null,"type":null,"op-tions":null,"format":null,"mark_-decimal":null,"mark_thou-sands":null,"preci-sion":null,"rounding":null,"show_-com-mas":null,"pre":null,"post":null,"te xt_format":null,"label":null,"en-able_geocoding":false,"equa-tion_type":null},"default":null,"im-mutable":true}
Date	datetime		☐	

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Name	Data Type	Label	Required	Documentation
Description	varchar2		☐	{"type":"short_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6a3cc770ceeb00154427ac","name":"Description","key":"field_75","object_key":null,"relationship":null,"format":null,"default":null,"immutable":true}
ID	varchar2		☐	{"type":"short_text","required":true,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6a3cc770ceeb00154427aa","name":"ID","key":"field_73","object_key":null,"relationship":null,"format":null,"default":null,"immutable":true}
IP_Address	varchar2		☐	{"type":"short_text","required":true,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6a3cc770ceeb00154427ab","name":"IP Address","key":"field_74","object_key":null,"relationship":null,"format":null,"default":null,"immutable":true}
Notes	varchar2		☐	{"type":"short_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6a3cc770ceeb00154427ad","name":"Notes","key":"field_76","object_key":null,"relationship":null,"format":null,"default":null,"immutable":true}
Processor	varchar2		☐	{"type":"short_text","required":true,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6a3cc770ceeb00154427a9","name":"Processor","key":"field_72","object_key":null,"relationship":null,"format":null,"default":null,"immutable":true}
Record_ID_1	varchar2		☐	{"type":"short_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"696a8b987297df53c6ed6ded","name":"Record ID","key":"field_102","object_key":null,"relationship":null,"format":null,"default":null,"immutable":true}
record_id	varchar2		☑	

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Name	Data Type	Label	Required	Documentation
Source	varchar2		☐	{"type":"short_text","required":true,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6a3cc770ceeb00154427a8","name":"Source","key":"field_71","object_key":null,"relationship":null,"format":null,"default":null,"immutable":true}
Status	varchar2		☐	{"type":"multiple_choice","required":true,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6a3cc770ceeb00154427a7","name":"Status","key":"field_70","object_key":null,"relationship":null,"format":{"input":null,"conn_default":null,"default":"Pending","sorting":null,"type":"single","options":["Pending","Complete","Failed","Pending - Test Mode","Complete - Test Mode","Failed - Test Mode"],"format":null,"mark_decimal":null,"mark_thousands":null,"precision":null,"rounding":null,"show_commas":null,"pre":null,"post":null,"text_format":null,"label":null,"enable_geocoding":false,"equation_type":null},"default":null,"immutable":true}

Products: Knack Products

Catalog: Knack

Schema: Objects

Primary Keys: record_id

Label: Products

Can retrieve data and change data using insert, update and delete.

Table Columns

The columns of the table Products are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert and update.

Name	Data Type	Label	Required	Documentation
Available	char		☐	{"type":"boolean","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":

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Name	Data Type	Label	Required	Documentation
				[],"_id":"5f68423c4395f40015a2f020","name":"Available","key":"field_13","object_key":null,"relationship":null,"format":{"input":"dropdown","conn_default":null,"default":"false","sorting":null,"type":null,"options":null,"format":"yes_no","mark_decimal":null,"mark_thousands":null,"precision":null,"rounding":null,"show_commas":null,"pre":null,"post":null,"text_format":null,"label":null,"enable_geocoding":false,"equation_type":null},"default":"false","immutable":null}
Description	varchar2		☐	{"type":"paragraph_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f68423b4395f40015a2f01e","name":"Description","key":"field_11","object_key":null,"relationship":null,"format":null,"default":null,"immutable":null}
Image_filename	varchar2		☐	
Image_s3	char		☐	
Image_size	int32		☐	
Image_thumb_url	varchar2		☐	
Image_type	varchar2		☐	
Image_url	varchar2		☐	
Price	decimal		☐	{"type":"currency","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f68423b4395f40015a2f01f","name":"Price","key":"field_12","object_key":null,"relationship":null,"format":{"input":null,"conn_default":null,"default":null,"sorting":null,"type":null,"options":null,"format":"$","mark_decimal":null,"mark_thousands":null,"precision":null,"rounding":null,"show_commas":null,"pre":null,"post":null,"text_format":null,"label":null,"enable_geocoding":false,"equation_type":null},"default":null,"immutable":null}
Product_ID	decimal		☐	{"type":"auto_increment","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":

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Name	Data Type	Label	Required	Documentation
				[],"_id":"5f68423b4395f40015a2f01c","name":"Product ID","key":"field_9","object_key":null,"relationship":null,"format":null,"default":null,"immutable":null}
Record_ID_1	varchar2		☐	{"type":"short_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"696a8b987297df53c6ed6de1","name":"Record ID","key":"field_96","object_key":null,"relationship":null,"format":null,"default":null,"immutable":true}
record_id	varchar2		☑	

ProductsExpanded: Knack Products

Catalog: Knack

Schema: Objects

Primary Keys: record_id

Label: Products

Can retrieve data and change data using insert, update and delete.

Table Columns

The columns of the table ProductsExpanded are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert and update.

Name	Data Type	Label	Required	Documentation
Available	char		☐	{"type":"boolean","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f68423c4395f40015a2f020","name":"Available","key":"field_13","object_key":null,"relationship":null,"format":{"input":"dropdow n","conn_default":null,"default":"false","sorting":null,"type":null,"options":null,"format":"yes_no","mark_decimal":null,"mark_thousands":null,"precision":null,"rounding":null,"show_commas":null,"pre":null,"post":null,"text_format":null,"label":null,"enable_geocoding":false,"equation_type":null},"default":"false","immutable":null}

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Name	Data Type	Label	Required	Documentation
Description	varchar2		☐	{"type":"paragraph_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f68423b4395f40015a2f01e","name":"Description","key":"field_11","object_key":null,"relationship":null,"format":null,"default":null,"immutable":null}
Image_data	blob		☐	
Image_filename	varchar2		☐	
Image_s3	char		☐	
Image_size	int32		☐	
Image_thumb_url	varchar2		☐	
Image_type	varchar2		☐	
Image_url	varchar2		☐	
Price	decimal		☐	{"type":"currency","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f68423b4395f40015a2f01f","name":"Price","key":"field_12","object_key":null,"relationship":null,"format":{"input":null,"conn_default":null,"default":null,"sorting":null,"type":null,"options":null,"format":"$","mark_decimal":null,"mark_thousands":null,"precision":null,"rounding":null,"show_commas":null,"pre":null,"post":null,"text_format":null,"label":null,"enable_geocoding":false,"equation_type":null},"default":null,"immutable":null}
Product_ID	decimal		☐	{"type":"auto_increment","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f68423b4395f40015a2f01c","name":"Product ID","key":"field_9","object_key":null,"relationship":null,"format":null,"default":null,"immutable":null}
Record_ID_1	varchar2		☐	{"type":"short_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"696a8b987297df53c6ed6de1","name":"Record ID","key":"field_96","object_key":null,"relationship":null,"format":null,"default":null,"immutable":true}

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Name	Data Type	Label	Required	Documentation
record_id	varchar2		☑	

Test: Knack Tests

Catalog: Knack

Schema: Objects

Primary Keys: record_id

Label: Tests

Can retrieve data and change data using insert, update and delete.

Table Columns

The columns of the table Test are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert and update.

Name	Data Type	Label	Required	Documentation
AddressWithGeocoding_city	varchar2		☐	
AddressWithGeocoding_latitude	decimal		☐	
AddressWithGeocoding_longitude	decimal		☐	
AddressWithGeocoding_state	varchar2		☐	
AddressWithGeocoding_street	varchar2		☐	
AddressWithGeocoding_street2	varchar2		☐	
AddressWithGeocoding_zip	varchar2		☐	
Auto_Increment	decimal		☐	{"type":"auto_increment","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f689643b3e682001590b4ca","name":"Auto Increment","key":"field_21","object_key":"object_4","relationship":null,"format":null,"default":null,"immutable":null}
Currency	decimal		☐	{"type":"currency","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6896274395f40015a3df57","name":"Currency","key":"field_19","object_key":"object_4","relationship":null,"format":{"input":null,"conn_default":null,"default":null,"sorting":null,"type":null,"options":null,"format":"$","mark_decimal":null,"mark_thousands":null,"precision":null,"rounding":null,"show_commas":null,"pre":null,"post":null,"te

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Name	Data Type	Label	Required	Documentation
				xt_format":null,"label":null,"en-able_geocoding":false,"equa-tion_type":null},"default":"","im-mutable":null}
Date_Time	datetime		☐	
Email_email	varchar2		☐	
Email_label	varchar2		☐	
Equation	decimal		☐	
File_filename	varchar2		☐	
File_s3	char		☐	
File_size	int32		☐	
File_thumb_url	varchar2		☐	
File_type	varchar2		☐	
File_url	varchar2		☐	
Image_filename	varchar2		☐	
Image_s3	char		☐	
Image_size	int32		☐	
Image_thumb_url	varchar2		☐	
Image_type	varchar2		☐	
Image_url	varchar2		☐	
IntlAddress_city	varchar2		☐	
IntlAddress_state	varchar2		☐	
IntlAddress_street	varchar2		☐	
IntlAddress_street2	varchar2		☐	
IntlAddress_zip	varchar2		☐	
IntlAddressLatLng_latitude	decimal		☐	
IntlAddressLatLng_longitude	decimal		☐	
IntlAddressWithCountry_city	varchar2		☐	
IntlAddressWithCountry_country	varchar2		☐	
IntlAddressWithCountry_state	varchar2		☐	
IntlAddressWithCountry_street	varchar2		☐	
IntlAddressWithCountry_street2	varchar2		☐	
IntlAddressWithCountry_zip	varchar2		☐	
Link_label	varchar2		☐	
Link_url	varchar2		☐	
Multiple_Choice	varchar2		☐	{"type":"multiple_choice","re-quired":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f689646b3e682001590b4de","name":"Multiple Choice","key":"field_22","ob-ject_key":"object_4","relation-ship":null,"format":{"in-put":null,"conn_default":null,"de-

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Name	Data Type	Label	Required	Documentation
				fault":"kn-blank","sorting":"alpha-betical","type":"single","options":["First Choice","Second Choice","Third Choice"],"format":null,"mark_-decimal":null,"mark_thou-sands":null,"preci-sion":null,"rounding":null,"show_-com-mas":null,"pre":null,"post":null,"te xt_format":null,"label":null,"en-able_geocoding":false,"equa-tion_type":null},"default":null,"im-mutable":null}
Name_firstname	varchar2		☐	
Name_lastname	varchar2		☐	
Name_middlename	varchar2		☐	
Name_title	varchar2		☐	
Number	decimal		☐	{"type":"number","re-quired":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6896244395f40015a3df4e","name":"Num-ber","key":"field_18","ob-ject_key":"object_4","relation-ship":null,"format":{"in-put":null,"conn_default":null,"de-fault":null,"sort-ing":null,"type":null,"op-tions":null,"format":"none","mark_decimal":"none","mark_thou-sands":"none","preci-sion":"2","round-ing":"none","show_com-mas":null,"pre":null,"post":null,"te xt_format":null,"label":null,"en-able_geocoding":false,"equa-tion_type":null},"default":"","im-mutable":null}
Paragraph_Text	varchar2		☐	{"type":"paragraph_text","re-quired":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f689601b3e682001590b418","name":"Paragraph Text","key":"field_15","ob-ject_key":"object_4","relation-ship":null,"format":null,"de-fault":"","immutable":null}
Phone	varchar2		☐	
Rating	decimal		☐	{"type":"rating","re-quired":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6896823758ec001589d9cd","name":"Rat-ing","key":"field_35","ob-ject_key":"object_4","relation-

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Name	Data Type	Label	Required	Documentation
				ship":null,"format":{"in-put":null,"conn_default":null,"de-fault":null,"sort-ing":null,"type":null,"op-tions":null,"format":null,"mark_-decimal":null,"mark_thou-sands":null,"preci-sion":null,"rounding":null,"show_-com-mas":null,"pre":null,"post":null,"te xt_format":null,"label":null,"en-able_geocoding":false,"equa-tion_type":null},"default":null,"im-mutable":null}
Record_ID_1	varchar2		☐	{"type":"short_text","re-quired":false,"unique":false,"user ":false,"conditional":false,"rules": [],"validation": [],"_id":"696a8b987297d-f53c6ed6de3","name":"Record ID","key":"field_97","ob-ject_key":null,"relation-ship":null,"format":null,"de-fault":null,"immutable":true}
record_id	varchar2		☑	
Rich_Text	varchar2		☐	{"type":"rich_text","re-quired":false,"unique":false,"user ":false,"conditional":false,"rules": [],"validation": [],"_id":"5f689604b3e682001590 b425","name":"Rich Text","key":"field_16","ob-ject_key":"object_4","relation-ship":null,"format":null,"de-fault":"","immutable":null}
Signature_base30	varchar2		☐	
Signature_svg	varchar2		☐	
Test_Name	varchar2		☐	{"type":"short_text","re-quired":true,"unique":false,"user" :false,"conditional":false,"rules": [],"validation": [],"_id":"5f6895f53838c00015ce7 fc7","name":"Test Name","key":"field_14","ob-ject_key":null,"relation-ship":null,"format":null,"de-fault":null,"immutable":null}
Text_Formula	varchar2		☐	{"type":"concatenation","re-quired":false,"unique":false,"user ":false,"conditional":false,"rules": [],"validation": [],"_id":"5f68961f4395f40015a3d f44","name":"Text For-mula","key":"field_17","ob-ject_key":"object_4","relation-ship":null,"format":{"in-put":null,"conn_default":null,"de-fault":null,"sort-ing":null,"type":null,"op-tions":null,"format":null,"mark_-

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Name	Data Type	Label	Required	Documentation
				decimal":null,"mark_thousands":null,"precision":null,"rounding":null,"show_commas":null,"pre":null,"post":null,"text_format":null,"label":null,"enable_geocoding":false,"equation_type":"numeric"},"default":null,"immutable":null}
Timer_from_min	datetime		☐	
Timer_stop_count	int32		☐	
Timer_to_max	datetime		☐	
Timer_total_time	int64		☐	
USAddress_city	varchar2		☐	
USAddress_state	varchar2		☐	
USAddress_street	varchar2		☐	
USAddress_street2	varchar2		☐	
USAddress_zip	varchar2		☐	
Yes_No	char		☐	{"type":"boolean","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6896494395f40015a3dfcf","name":"Yes/No","key":"field_23","object_key":"object_4","relationship":null,"format":{"input":"dropdow n","conn_default":null,"default":"false","sorting":null,"type":null,"options":null,"format":"yes_no","mark_decimal":null,"mark_thousands":null,"precision":null,"rounding":null,"show_commas":null,"pre":null,"post":null,"text_format":null,"label":null,"enable_geocoding":false,"equation_type":null},"default":"false","immutable":null}

TestcaseIUD: Knack TestcaseIUDs

Catalog: Knack

Schema: Objects

Primary Keys: record_id

Label: TestcaseIUDs

Can retrieve data and change data using insert, update and delete.

Table Columns

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The columns of the table TestcaseIUD are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert and update.

Name	Data Type	Label	Required	Documentation
File_filename	varchar2		☐	
File_s3	char		☐	
File_size	int32		☐	
File_thumb_url	varchar2		☐	
File_type	varchar2		☐	
File_url	varchar2		☐	
ID	decimal		☐	{"type":"auto_increment","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f915ae820b7840015577897","name":"ID","key":"field_87","object_key":"object_11","relationship":null,"format":null,"default":null,"immutable":null}
Image_filename	varchar2		☐	
Image_s3	char		☐	
Image_size	int32		☐	
Image_thumb_url	varchar2		☐	
Image_type	varchar2		☐	
Image_url	varchar2		☐	
Name	varchar2		☐	{"type":"short_text","required":true,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f915ad36518fb0016a6d2d8","name":"Name","key":"field_86","object_key":"object_11","relationship":null,"format":null,"default":"","immutable":null}
Record_ID_1	varchar2		☐	{"type":"short_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"696a8b987297df53c6ed6df1","name":"Record ID","key":"field_104","object_key":null,"relationship":null,"format":null,"default":null,"immutable":true}
record_id	varchar2		☑	

TestcaseIUDExpanded: Knack TestcaseIUDs

Catalog: Knack

Schema: Objects

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Primary Keys: record_id

Label: TestcaseIUDs

Can retrieve data and change data using insert, update and delete.

Table Columns

The columns of the table TestcaseIUDExpanded are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert and update.

Name	Data Type	Label	Required	Documentation
File_data	blob		☐	
File_filename	varchar2		☐	
File_s3	char		☐	
File_size	int32		☐	
File_thumb_url	varchar2		☐	
File_type	varchar2		☐	
File_url	varchar2		☐	
ID	decimal		☐	{"type":"auto_increment","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f915ae820b7840015577897","name":"ID","key":"field_87","object_key":"object_11","relationship":null,"format":null,"default":null,"immutable":null}
Image_data	blob		☐	
Image_filename	varchar2		☐	
Image_s3	char		☐	
Image_size	int32		☐	
Image_thumb_url	varchar2		☐	
Image_type	varchar2		☐	
Image_url	varchar2		☐	
Name	varchar2		☐	{"type":"short_text","required":true,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f915ad36518fb0016a6d2d8","name":"Name","key":"field_86","object_key":"object_11","relationship":null,"format":null,"default":"","immutable":null}
Record_ID_1	varchar2		☐	{"type":"short_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"696a8b987297df53c6ed6df1","name":"Record ID","key":"field_104","object_key":null,"relation-

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Name	Data Type	Label	Required	Documentation
				ship":null,"format":null,"default":null,"immutable":true}
record_id	varchar2		☑	

TestExpanded: Knack Tests

Catalog: Knack

Schema: Objects

Primary Keys: record_id

Label: Tests

Can retrieve data and change data using insert, update and delete.

Table Columns

The columns of the table TestExpanded are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert and update.

Name	Data Type	Label	Required	Documentation
AddressWithGeocoding_city	varchar2		☐	
AddressWithGeocoding_latitude	decimal		☐	
AddressWithGeocoding_longitude	decimal		☐	
AddressWithGeocoding_state	varchar2		☐	
AddressWithGeocoding_street	varchar2		☐	
AddressWithGeocoding_street2	varchar2		☐	
AddressWithGeocoding_zip	varchar2		☐	
Auto_Increment	decimal		☐	{"type":"auto_increment","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f689643b3e682001590b4ca","name":"Auto Increment","key":"field_21","object_key":"object_4","relationship":null,"format":null,"default":null,"immutable":null}
Currency	decimal		☐	{"type":"currency","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6896274395f40015a3df57","name":"Currency","key":"field_19","object_key":"object_4","relationship":null,"format":{"input":null,"conn_default":null,"default":null,"sorting":null,"type":null,"options":null,"format":"$","mark_decimal":null,"mark_thousands":null,"preci-

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Name	Data Type	Label	Required	Documentation
				sion":null,"rounding":null,"show_com-mas":null,"pre":null,"post":null,"text_format":null,"label":null,"en-able_geocoding":false,"equa-tion_type":null},"default":"","im-mutable":null}
Date_Time	datetime		☐	
Email_email	varchar2		☐	
Email_label	varchar2		☐	
Equation	decimal		☐	
File_data	blob		☐	
File_filename	varchar2		☐	
File_s3	char		☐	
File_size	int32		☐	
File_thumb_url	varchar2		☐	
File_type	varchar2		☐	
File_url	varchar2		☐	
Image_data	blob		☐	
Image_filename	varchar2		☐	
Image_s3	char		☐	
Image_size	int32		☐	
Image_thumb_url	varchar2		☐	
Image_type	varchar2		☐	
Image_url	varchar2		☐	
IntlAddress_city	varchar2		☐	
IntlAddress_state	varchar2		☐	
IntlAddress_street	varchar2		☐	
IntlAddress_street2	varchar2		☐	
IntlAddress_zip	varchar2		☐	
IntlAddressLatLng_latitude	decimal		☐	
IntlAddressLatLng_longitude	decimal		☐	
IntlAddressWithCountry_city	varchar2		☐	
IntlAddressWithCountry_country	varchar2		☐	
IntlAddressWithCountry_state	varchar2		☐	
IntlAddressWithCountry_street	varchar2		☐	
IntlAddressWithCountry_street2	varchar2		☐	
IntlAddressWithCountry_zip	varchar2		☐	
Link_label	varchar2		☐	
Link_url	varchar2		☐	
Multiple_Choice	varchar2		☐	{"type":"multiple_choice","re-quired":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":

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Name	Data Type	Label	Required	Documentation
				[],"_id":"5f689646b3e682001590b4de","name":"Multiple Choice","key":"field_22","object_key":"object_4","relationship":null,"format":{"input":null,"conn_default":null,"default":"kn-blank","sorting":"alphabetical","type":"single","options":["First Choice","Second Choice","Third Choice"],"format":null,"mark_decimal":null,"mark_thousands":null,"precision":null,"rounding":null,"show_commas":null,"pre":null,"post":null,"text_format":null,"label":null,"enable_geocoding":false,"equation_type":null},"default":null,"immutable":null}
Name_firstname	varchar2		☐	
Name_lastname	varchar2		☐	
Name_middlename	varchar2		☐	
Name_title	varchar2		☐	
Number	decimal		☐	{"type":"number","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6896244395f40015a3df4e","name":"Number","key":"field_18","object_key":"object_4","relationship":null,"format":{"input":null,"conn_default":null,"default":null,"sorting":null,"type":null,"options":null,"format":"none","mark_decimal":"none","mark_thousands":"none","precision":"2","rounding":"none","show_commas":null,"pre":null,"post":null,"text_format":null,"label":null,"enable_geocoding":false,"equation_type":null},"default":"","immutable":null}
Paragraph_Text	varchar2		☐	{"type":"paragraph_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f689601b3e682001590b418","name":"Paragraph Text","key":"field_15","object_key":"object_4","relationship":null,"format":null,"default":"","immutable":null}
Phone	varchar2		☐	
Rating	decimal		☐	{"type":"rating","required":false,"unique":false,"user

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Name	Data Type	Label	Required	Documentation
				":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6896823758ec001589d9cd","name":"Rating","key":"field_35","object_key":"object_4","relationship":null,"format":{"input":null,"conn_default":null,"default":null,"sorting":null,"type":null,"options":null,"format":null,"mark_decimal":null,"mark_thousands":null,"precision":null,"rounding":null,"show_commas":null,"pre":null,"post":null,"text_format":null,"label":null,"enable_geocoding":false,"equation_type":null},"default":null,"immutable":null}
Record_ID_1	varchar2		☐	{"type":"short_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"696a8b987297df53c6ed6de3","name":"Record ID","key":"field_97","object_key":null,"relationship":null,"format":null,"default":null,"immutable":true}
record_id	varchar2		☑	
Rich_Text	varchar2		☐	{"type":"rich_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f689604b3e6820015 90b425","name":"Rich Text","key":"field_16","object_key":"object_4","relationship":null,"format":null,"default":"","immutable":null}
Signature_base30	varchar2		☐	
Signature_svg	varchar2		☐	
Test_Name	varchar2		☐	{"type":"short_text","required":true,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6895f53838c00015ce7fc7","name":"Test Name","key":"field_14","object_key":null,"relationship":null,"format":null,"default":null,"immutable":null}
Text_Formula	varchar2		☐	{"type":"concatenation","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f68961f4395f40015a3df44","name":"Text Formula","key":"field_17","ob-

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Name	Data Type	Label	Required	Documentation
				ject_key":"object_4","relation-ship":null,"format":{"in-put":null,"conn_default":null,"de-fault":null,"sort-ing":null,"type":null,"op-tions":null,"format":null,"mark_-decimal":null,"mark_thou-sands":null,"preci-sion":null,"rounding":null,"show_-com-mas":null,"pre":null,"post":null,"te xt_format":null,"label":null,"en-able_geocoding":false,"equa-tion_type":"numeric"},"de-fault":null,"immutable":null}
Timer_from_min	datetime		☐	
Timer_stop_count	int32		☐	
Timer_to_max	datetime		☐	
Timer_total_time	int64		☐	
USAddress_city	varchar2		☐	
USAddress_state	varchar2		☐	
USAddress_street	varchar2		☐	
USAddress_street2	varchar2		☐	
USAddress_zip	varchar2		☐	
Yes_No	char		☐	{"type":"boolean","re-quired":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6896494395f40015a3d-fcf","name":"Yes/No","key":"field_23","object_key":"object_4","re-lationship":null,"format":{"in-put":"dropdow n","conn_de-fault":null,"default":"false","sort-ing":null,"type":null,"op-tions":null,"format":"yes_no","mark_decimal":null,"mark_thou-sands":null,"preci-sion":null,"rounding":null,"show_-com-mas":null,"pre":null,"post":null,"te xt_format":null,"label":null,"en-able_geocoding":false,"equa-tion_type":null},"de-fault":"false","immutable":null}

testpho: Knack testphos

Catalog: Knack

Schema: Objects

Primary Keys: record_id

Label: testphos

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Can retrieve data and change data using insert, update and delete.

Table Columns

The columns of the table testpho are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert and update.

Name	Data Type	Label	Required	Documentation
datefield	datetime		☐	
Record_ID_1	varchar2		☐	{"type":"short_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"696a8b987297df53c6ed6df3","name":"Record ID","key":"field_105","object_key":null,"relationship":null,"format":null,"default":null,"immutable":true}
record_id	varchar2		☑	
Revenue_FY0_Criteria_#1	varchar2		☐	{"type":"short_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"6418457016ee4400280d2a0c","name":"Revenue FY0 Criteria #1","key":"field_93","object_key":null,"relationship":null,"format":null,"default":null,"immutable":null}
text	varchar2		☐	{"type":"short_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5fc8c1038c3dfe001deaceca","name":"text","key":"field_91","object_key":"object_12","relationship":null,"format":null,"default":"","immutable":null}

3.1.6 Schema: Product_Details

3.1.6.1 Tables

Product_DetailsById

Catalog: Knack

Schema: Product_Details

This is a read-only table function. The Knack API may not support changing the data or the Invantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Parameters of Table Function

The following parameters can be used to control the behaviour of the table function Product_DetailsById. A value must be provided at all times for required parameters, but optional

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parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a `select * from table(value1, value2, value3)` on a table with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with `select * from table(name1 => value1, name3 => value3)` on the same table will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
id	varchar2	☑		

Columns of Table Function

The columns of the table function Product_DetailsById are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
DUMMY	varchar2		☑	Default column added since the specification specifies that no data is returned.
record_id	varchar2		☑	

3.1.7 Schema: ProductsMenu

3.1.7.1 Tables

Products: Knack Table

Catalog: Knack

Schema: ProductsMenu

Label: Table

This is a read-only view. The Knack API may not support changing the data or the Invantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

View Columns

The columns of the view Products are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
Available	char		☐	{"type":"boolean","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f68423c4395f40015a2f020","name":"Available","key":"field_13","object_key":null,"relation-

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Name	Data Type	Label	Required	Documentation
				ship":null,"format":{"input":"drop-dow n","conn_default":null,"de-fault":"false","sort-ing":null,"type":null,"op-tions":null,"format":"yes_no","mar k_decimal":null,"mark_thou-sands":null,"preci-sion":null,"rounding":null,"show _-com-mas":null,"pre":null,"post":null,"te xt_format":null,"label":null,"en-able_geocoding":false,"equa-tion_type":null},"de-fault":"false","immutable":null}
Description	varchar2		☐	{"type":"paragraph_text","re-quired":false,"unique":false,"user ":false,"conditional":false,"rules": [],"validation": [],"_id":"5f68423b4395f40015a2f 01e","name":"Descrip-tion","key":"field_11","ob-ject_key":null,"relation-ship":null,"format":null,"de-fault":null,"immutable":null}
Image_filename	varchar2		☐	
Image_s3	char		☐	
Image_size	int32		☐	
Image_thumb_url	varchar2		☐	
Image_type	varchar2		☐	
Image_url	varchar2		☐	
Price	decimal		☐	{"type":"currency","re-quired":false,"unique":false,"user ":false,"conditional":false,"rules": [],"validation": [],"_id":"5f68423b4395f40015a2f 01f","name":"Price","key":"field_1 2","object_key":null,"relation-ship":null,"format":{"in-put":null,"conn_default":null,"de-fault":null,"sort-ing":null,"type":null,"op-tions":null,"format":"$","mark_-decimal":null,"mark_thou-sands":null,"preci-sion":null,"rounding":null,"show _-com-mas":null,"pre":null,"post":null,"te xt_format":null,"label":null,"en-able_geocoding":false,"equa-tion_type":null},"default":null,"im-mutable":null}
Product_ID	decimal		☐	{"type":"auto_increment","re-quired":false,"unique":false,"user ":false,"conditional":false,"rules": [],"validation": [],"_id":"5f68423b4395f40015a2f 01c","name":"Product ID","key":"field_9","ob-ject_key":null,"relation-

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Name	Data Type	Label	Required	Documentation
				ship":null,"format":null,"default":null,"immutable":null}
record_id	varchar2		☑	

4 Package: dcr_metadata

4.1 Procedures

4.1.1 dcr_metadata.get_partitions: Knack Data container metadata package

Get all partitions.

Documentation:

List all partitions.

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