# Package 'qbr'

June 30, 2022		
Title Access the 'Quickbase' JSON API		
Version 1.1.0		
Description  Programmatically access the 'Quickbase' JSON API <a href="https://developer.quickbase.com">https://developer.quickbase.com</a> .  You supply parameters for an API call, 'qbr' delivers an http request to the API endpoint and returns its response. Outputs follow 'tidyverse' philosophy.		
<pre>URL https://github.com/BHII-KSC/qbr</pre>		
<pre>BugReports https://github.com/BHII-KSC/qbr/issues</pre>		
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R topics documented:		
clone_token		

2 clone\_token

	get_report	 	 . 7
	get_reports	 	 . 8
	get_users	 	 . 9
	qbr	 	 . 10
	qb_run	 	 . 10
	run_report	 	 . 11
Index			14

clone\_token

Clone a user token

## Description

clone\_token makes a copy of the supplied token and returns its value.

## Usage

```
clone_token(
   subdomain,
   auth,
   agent = NULL,
   clone_name = NULL,
   clone_desc = NULL
)
```

## Arguments

subdomain	Character vector with one element. Found at the beginning of the Quickbase URL. Realm specific.
auth	Character vector with one element. The Quickbase authentication scheme you are using to authenticate the request (e.g., user token).
agent	Optional. Character vector with one element. Describes user/agent making API call.
clone_name	Optional. Character vector with one element. Name the token clone.
clone_desc	Optional. Character vector with one element. Provide a description for the token clone.

## Value

A character vector with one element containing the token clone.

## References

Quickbase API documentation

copy\_app 3

#### **Examples**

copy\_app

Copy an app

## Description

copy\_app Copy an app. Provides options to copy data and users.

## Usage

```
copy_app(
   subdomain,
   auth,
   app_id,
   app_name,
   app_desc = NULL,
   agent = NULL,
   users_and_roles = FALSE,
   keep_data = FALSE,
   exclude_files = TRUE,
   assign_user_token = TRUE
)
```

## Arguments

subdomain	Character vector with one element. Found at the beginning of the Quickbase URL. Realm specific.	
auth	Character vector with one element. The Quickbase authentication scheme you are using to authenticate the request (e.g., user token).	
app_id	Character vector with one element. Unique identifier of an app. Found in the URL of the app's homepage after /db/	
app_name	Character vector with one element. Name the app's copy.	
app_desc	Optional. Character vector with one element. Describe the app's copy.	
agent	Optional. Character vector with one element. Describes user/agent making API call.	
users_and_roles		
	Logical If true users will be copied along with their assigned roles. If false	

Logical. If true, users will be copied along with their assigned roles. If false, users and roles will be copied but roles will not be assigned.

4 deactivate\_token

keep\_data Logical. Whether to copy the app's data along with the schema.

exclude\_files Logical. If keep\_data is true, whether to copy the file attachments as well. If

keep\_data is false, this parameter is ignored.

assign\_user\_token

Logical. Whether to add the user token used to make this request to the new app.

#### Value

A list.

#### **Examples**

deactivate\_token

Deactivate a user token

#### Description

deactivate\_token makes an active user token inactive.

#### Usage

```
deactivate_token(subdomain, auth, agent = NULL)
```

#### **Arguments**

subdomain Character vector with one element. Found at the beginning of the Quickbase

URL. Realm specific.

auth Character vector with one element. The Quickbase authentication scheme you

are using to authenticate the request (e.g., user token).

agent Optional. Character vector with one element. Describes user/agent making API

call.

#### Value

A message confirming deactivation was successful.

delete\_app 5

## **Examples**

delete\_app

Delete an app

## Description

delete\_app Delete an entire app, including all of the tables and data.

## Usage

```
delete_app(subdomain, auth, app_id, app_name, agent = NULL)
```

## Arguments

subdomain	Character vector with one element. Found at the beginning of the Quickbase URL. Realm specific.
auth	Character vector with one element. The Quickbase authentication scheme you are using to authenticate the request (e.g., user token).
app_id	Character vector with one element. Unique identifier of an app. Found in the URL of the app's homepage after /db/
app_name	Character vector with one element. The name of the app to be delete. Confirms you want to delete the app.
agent	Optional. Character vector with one element. Describes user/agent making API call.

#### Value

A list.

get\_app\_events

delete_token	Delete a user token
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#### **Description**

delete\_token permanently deletes an active user token.

## Usage

```
delete_token(subdomain, auth, agent = NULL)
```

## Arguments

subdomain Character vector with one element. Found at the beginning of the Quickbase

URL. Realm specific.

auth Character vector with one element. The Quickbase authentication scheme you

are using to authenticate the request (e.g., user token).

agent Optional. Character vector with one element. Describes user/agent making API

call.

#### Value

A message confirming deactivation was successful.

#### **Examples**

get\_app\_events

Get app events

#### **Description**

get\_app\_events Get a tibble of events that can be triggered based on data or user actions in this application, includes: Email notification, Reminders, Subscriptions, QB Actions, Webhooks, record change triggered Automations (does not include scheduled).

#### Usage

```
get_app_events(subdomain, auth, app_id, agent = NULL)
```

get\_report 7

## Arguments

subdomain	Character vector with one element. Found at the beginning of the Quickbase URL. Realm specific.
auth	Character vector with one element. The Quickbase authentication scheme you are using to authenticate the request (e.g., user token).
app_id	Character vector with one element. Unique identifier of an app. Found in the URL of the app's homepage after /db/
agent	Optional. Character vector with one element. Describes user/agent making API call.

#### Value

A tibble.

## **Examples**

get\_report

Get a report

## Description

get\_report retrieves metadata about the specified Quickbase report.

## Usage

```
get_report(subdomain, auth, table_id, report_id, agent = NULL)
```

## Arguments

subdomain	Character vector with one element. Found at the beginning of the Quickbase URL. Realm specific.
auth	Character vector with one element. The Quickbase authentication scheme you are using to authenticate the request (e.g., user token).
table_id	Character vector with one element. Found in the URL of a Quickbase table between /db/ and ?
report_id	Character vector with one element. Found in the 'Reports & Charts' page in Quickbase and in the report URL.
agent	Optional. Character vector with one element. Describes user/agent making API call.

8 get\_reports

#### Value

A named list.

## **Examples**

get\_reports

Get reports for a table

#### **Description**

get\_reports retrieves metadata for each report in a table.

#### Usage

```
get_reports(subdomain, auth, table_id, agent = NULL)
```

#### **Arguments**

subdomain	Character vector with one element. Found at the beginning of the Quickbase URL. Realm specific.
auth	Character vector with one element. The Quickbase authentication scheme you are using to authenticate the request (e.g., user token).
table_id	Character vector with one element. Found in the URL of a Quickbase table between /db/ and ?
agent	Optional. Character vector with one element. Describes user/agent making API call.

#### Value

A tibble.

get\_users 9

get_users	Get users
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## Description

get\_users Get all users in an account. Provides options to limit values to a set of users and/or apps.

## Usage

```
get_users(
   subdomain,
   auth,
   agent = NULL,
   account_id = NULL,
   user_emails = NULL,
   app_ids = NULL
```

## Arguments

subdomain	Character vector with one element. Found at the beginning of the Quickbase URL. Realm specific.
auth	Character vector with one element. The Quickbase authentication scheme you are using to authenticate the request (e.g., user token).
agent	Optional. Character vector with one element. Describes user/agent making API call.
account_id	Optional. Positive integer. The account ID being used to get users. If no value is specified, the first account associated with the requesting user token is chosen.
user_emails	Optional. Character vector. Limit returned users to those specified in this list.
app_ids	Optional. Character vector. Limit returned users to those assigned to these app ID's. The provided app ID's should belong to the same account.

#### Value

A tibble.

10 *qb\_run* 

qbr

qbr: A package for interacting with the 'Quickbase' JSON API

## Description

The qbr package is currently focused on extracting data from 'Quickbase' via its JSON API.

## qbr functions

\* qb\_run Runs a 'Quickbase' report and returns its data as a tibble.

 $qb\_run$ 

Run a Quickbase report

## Description

qb\_run asks the Quickbase API to run a report and returns its data.

## Usage

```
qb_run(
    subdomain,
    token,
    table_id,
    report_id,
    agent = NULL,
    skip = 0,
    top = 0,
    type_suffix = FALSE,
    paginate = TRUE
)
```

#### **Arguments**

subdomain	Character vector with one element. Found at the beginning of the Quickbase URL. Realm specific.
token	Character vector with one element. Created in 'My Preferences' under 'Manage user tokens' link.
table_id	Character vector with one element. Found in the URL of a Quickbase table between /db/ and ?
report_id	Character vector with one element. Found in the 'Reports & Charts' page in Quickbase and in the report URL.
agent	Optional. Character vector with one element. Describes user/agent making API call.

run\_report 11

Optional. Integer. The number of rows to skip from the top of a record set.
 Optional. Integer. The limit on the number of records to pull starting at the top of a record set.
 Optional. Logical. Set TRUE to append each field label with its Quickbase data type.
 Optional. Logical. Set TRUE to recursively call the API until all report pages

are collected

#### Value

A tibble.

#### References

Quickbase API documentation

#### **Examples**

run\_report

Run a report

#### **Description**

run\_report asks the Quickbase API to run a report and returns its data.

run\_report

## Usage

```
run_report(
   subdomain,
   auth,
   table_id,
   report_id,
   agent = NULL,
   skip = 0,
   top = 0,
   type_suffix = FALSE,
   paginate = TRUE
)
```

## Arguments

subdomain	Character vector with one element. Found at the beginning of the Quickbase URL. Realm specific.
auth	Character vector with one element. The Quickbase authentication scheme you are using to authenticate the request (e.g., user token).
table_id	Character vector with one element. Found in the URL of a Quickbase table between $\mbox{\sc /db/}$ and ?
report_id	Character vector with one element. Found in the 'Reports & Charts' page in Quickbase and in the report URL.
agent	Optional. Character vector with one element. Describes user/agent making API call.
skip	Optional. Integer. The number of rows to skip from the top of a record set.
top	Optional. Integer. The limit on the number of records to pull starting at the top of a record set.
type_suffix	Optional. Logical. Set TRUE to append each field label with its Quickbase data type.
paginate	Optional. Logical. Set TRUE to recursively call the API until all report pages are collected.

#### Value

A tibble.

## References

Quickbase API documentation

```
## Not run:

# Get all data in a report

my_tibble <- run_report(subdomain = "abc",</pre>
```

run\_report 13

```
auth = keyring::key_get("qb_example"),
    table_id = "bn9d8iesz",
    report_id = "1")

# Get rows 3 to 6 from a report
my_tibble <- run_report(subdomain = "abc.quickbase.com",
    auth = keyring::key_get("qb_example"),
    table_id = "bn9d8iesz",
    report_id = "1",
    skip = 2,
    top = 3)

## End(Not run)</pre>
```

## **Index**

```
clone_token, 2
copy_app, 3

deactivate_token, 4
delete_app, 5
delete_token, 6

get_app_events, 6
get_report, 7
get_reports, 8
get_users, 9

qb_run, 10
qbr, 10

run_report, 11
```