

Package: adbcdrivermanager (via r-universe)

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Title 'Arrow' Database Connectivity ('ADBC') Driver Manager

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Description Provides a developer-facing interface to 'Arrow' Database Connectivity ('ADBC') for the purposes of driver development, driver testing, and building high-level database interfaces for users. 'ADBC' <<https://arrow.apache.org/adbc/>> is an API standard for database access libraries that uses 'Arrow' for result sets and query parameters.

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adbc_connection_get_info
<i>Connection methods</i>

Description

Connection methods

Usage

```
adbc_connection_get_info(connection, info_codes = NULL)

adbc_connection_get_objects(
  connection,
  depth = 0L,
  catalog = NULL,
  db_schema = NULL,
  table_name = NULL,
  table_type = NULL,
  column_name = NULL
)

adbc_connection_get_table_schema(connection, catalog, db_schema, table_name)

adbc_connection_get_table_types(connection)

adbc_connection_read_partition(connection, serialized_partition)
```

```

adbc_connection_commit(connection)

adbc_connection_rollback(connection)

adbc_connection_cancel(connection)

adbc_connection_get_statistic_names(connection)

adbc_connection_get_statistics(
    connection,
    catalog,
    db_schema,
    table_name,
    approximate = FALSE
)

adbc_connection_quote_identifier(connection, value, ...)

adbc_connection_quote_string(connection, value, ...)

```

Arguments

connection	An adbc_connection
info_codes	A list of metadata codes to fetch, or NULL to fetch all. Valid values are documented in the <code>adbc.h</code> header.
depth	The level of nesting to display. If 0, display all levels. If 1, display only catalogs (i.e., <code>catalog_schemas</code> will be null). If 2, display only catalogs and schemas (i.e., <code>db_schema_tables</code> will be null). If 3, display only catalogs, schemas, and tables.
catalog	Only show tables in the given catalog. If NULL, do not filter by catalog. If an empty string, only show tables without a catalog. May be a search pattern.
db_schema	Only show tables in the given database schema. If NULL, do not filter by database schema. If an empty string, only show tables without a database schema. May be a search pattern.
table_name	Constrain an object or statistics query for a specific table. If NULL, do not filter by name. May be a search pattern.
table_type	Only show tables matching one of the given table types. If NULL, show tables of any type. Valid table types can be fetched from <code>GetTableTypes</code> . Terminate the list with a NULL entry.
column_name	Only show columns with the given name. If NULL, do not filter by name. May be a search pattern.
serialized_partition	The partition descriptor.
approximate	If FALSE, request exact values of statistics, else allow for best-effort, approximate, or cached values. The database may return approximate values regardless, as indicated in the result. Requesting exact values may be expensive or unsupported.

value	A string or identifier.
...	Driver-specific options. These are generally named values that are converted to strings.

Value

- `adbc_connection_get_info()`, `adbc_connection_get_objects()`, `adbc_connection_get_table_types()`, and `adbc_connection_read_partition()` return a [nanoarrow_array_stream](#).
- `adbc_connection_get_table_schema()` returns a [nanoarrow_schena](#)
- `adbc_connection_commit()` and `adbc_connection_rollback()` return connection, invisibly.

Examples

```
db <- adbc_database_init(adbc_driver_void())
con <- adbc_connection_init(db)
# (not implemented by the void driver)
try(adbc_connection_get_info(con, 0))
```

adbc_connection_init *Connections*

Description

Connections

Usage

```
adbc_connection_init(database, ...)

adbc_connection_init_default(database, options = NULL, subclass = character())

adbc_connection_release(connection)

adbc_connection_set_options(connection, options)

adbc_connection_get_option(connection, option)

adbc_connection_get_option_bytes(connection, option)

adbc_connection_get_option_int(connection, option)

adbc_connection_get_option_double(connection, option)
```

Arguments

database	An adbc_database .
...	Driver-specific options. These are generally named values that are converted to strings.
options	A named <code>character()</code> or <code>list()</code> whose values are converted to strings.
subclass	An extended class for an object so that drivers can specify finer-grained control over behaviour at the R level.
connection	An adbc_connection
option	A specific option name

Value

An object of class 'adbc_connection'

Examples

```
db <- adbc_database_init(adbc_driver_void())
adbc_connection_init(db)
```

adbc_connection_join *Join the lifecycle of a unique parent to its child*

Description

It is occasionally useful to return a connection, statement, or stream from a function that was created from a unique parent. These helpers tie the lifecycle of a unique parent object to its child such that the parent object is released predictably and immediately after the child. These functions will invalidate all references to the previous R object.

Usage

```
adbc_connection_join(connection, database)
```

```
adbc_statement_join(statement, connection)
```

Arguments

connection	A connection created with adbc_connection_init()
database	A database created with adbc_database_init()
statement	A statement created with adbc_statement_init()

Value

The input, invisibly.

Examples

```
# Use local_adbc to ensure prompt cleanup on error;
# use join functions to return a single object that manages
# the lifecycle of all three.
stmt <- local({
  db <- local_adbc(adbc_database_init(adbc_driver_log()))

  con <- local_adbc(adbc_connection_init(db))
  adbc_connection_join(con, db)

  stmt <- local_adbc(adbc_statement_init(con))
  adbc_statement_join(stmt, con)

  adbc_xptr_move(stmt)
})

# Everything is released immediately when the last object is released
adbc_statement_release(stmt)
```

adbc_database_init	<i>Databases</i>
--------------------	------------------

Description

Databases

Usage

```
adbc_database_init(driver = NULL, ...)

adbc_database_init_default(driver, options = NULL, subclass = character())

adbc_database_release(database)

adbc_database_set_options(database, options)

adbc_database_get_option(database, option)

adbc_database_get_option_bytes(database, option)

adbc_database_get_option_int(database, option)

adbc_database_get_option_double(database, option)
```

Arguments

driver	The driver to use. This can be one of the following: • A non-missing character(1) containing a driver or manifest name, a relative or absolute path to a driver or manifest, or a URI. For a URI, the driver manager uses the URI scheme as the driver name and passes the URI to that driver. A profile:// URI loads a connection profile. • NULL, which leaves driver selection to the driver manager. In this case, ... must normally contain uri or profile; the driver is inferred from the URI or loaded from the connection profile. • An object that inherits from the <code>adbc_driver</code> class, such as one created by <code>adbc_driver()</code>. This includes drivers provided by R packages, such as <code>adbcsqlite::adbcsqlite()</code>.
...	Driver-specific options. These are generally named values that are converted to strings.
options	A named <code>character()</code> or <code>list()</code> whose values are converted to strings.
subclass	An extended class for an object so that drivers can specify finer-grained control over behaviour at the R level.
database	An <code>adbc_database</code> .
option	A specific option name

Value

An object of class `adbc_database`

Driver inference and connection profiles

A driver can be selected by name, inferred from a URI, or loaded from a connection profile:

```
# Load a driver by name and pass it a URI
adbc_database_init("postgresql", uri = "postgresql://localhost/database")

# Infer "postgresql" from the URI scheme
adbc_database_init(uri = "postgresql://localhost/database")

# Load a named or absolute-path connection profile
adbc_database_init(profile = "myprofile")

# Equivalently, use a profile URI as the driver or URI
adbc_database_init("profile://myprofile")
adbc_database_init(uri = "profile://myprofile")
```

A minimal connection profile is a TOML file containing a driver and its database options:

```
profile_version = 1
driver = "postgresql"

[Options]
uri = "postgresql://localhost/database"
```

Named profiles are located using the driver manager’s standard profile search paths. See the [ADBC connection profile documentation](#) for the file format, search locations, option precedence, and environment variable substitution.

Examples

```
adbc_database_init(adbc_driver_void())
```

adbc_driver_load	<i>Low-level driver loader</i>
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Description

Most users should use [adbc_driver\(\)](#); however, this function may be used to allow other libraries (e.g., GDAL) to access the driver loader.

Usage

```
adbc_driver_load(  
    x,  
    entrypoint,  
    version,  
    driver,  
    error,  
    load_flags = adbc_load_flags(),  
    additional_search_path_list = NULL  
)
```

Arguments

x, entrypoint	An ADBC driver may be defined either as an init function or as an identifier with an entrypoint name. A driver init func must be an external pointer to a DL_FUNC with the type AdbcDriverInitFunc specified in the adbc.h header.
version	The version number corresponding to the driver supplied
driver	An external pointer to an AdbcDriver
error	An external pointer to an AdbcError or NULL
load_flags	Integer flags generated by adbc_load_flags()
additional_search_path_list	A path list of additional locations to search for driver manifests

Value

An integer ADBC status code

adbc_driver_log	<i>Log calls to another driver</i>
-----------------	------------------------------------

Description

Useful for debugging or ensuring that certain calls occur during initialization and/or cleanup. The current logging output should not be considered stable and may change in future releases.

Usage

```
adbc_driver_log()
```

Value

An object of class 'adbc_driver_log'

Examples

```
drv <- adbc_driver_log()
db <- adbc_database_init(drv, key = "value")
con <- adbc_connection_init(db, key = "value")
stmt <- adbc_statement_init(con, key = "value")
try(adbc_statement_execute_query(stmt))
adbc_statement_release(stmt)
adbc_connection_release(con)
adbc_database_release(db)
```

adbc_driver_monkey	<i>Monkey see, monkey do!</i>
--------------------	-------------------------------

Description

A driver whose query results are set in advance.

Usage

```
adbc_driver_monkey()
```

Value

An object of class 'adbc_driver_monkey'

Examples

```
db <- adbc_database_init(adbc_driver_monkey())
con <- adbc_connection_init(db)
stmt <- adbc_statement_init(con, mtcars)
stream <- nanoarrow::nanoarrow_allocate_array_stream()
adbc_statement_execute_query(stmt, stream)
as.data.frame(stream$get_next())
```

adbc_driver_void	<i>Create ADBC drivers</i>
------------------	----------------------------

Description

Creates the R object representation of an ADBC driver, which consists of a name and an initializer function with an optional subclass to control finer-grained behaviour at the R level.

Usage

```
adbc_driver_void()

adbc_driver(
  x,
  entrypoint = NULL,
  ...,
  load_flags = adbc_load_flags(),
  subclass = character()
)
```

Arguments

x, entrypoint	An ADBC driver may be defined either as an init function or as an identifier with an entrypoint name. A driver init func must be an external pointer to a DL_FUNC with the type <code>AdbcDriverInitFunc</code> specified in the <code>adbc.h</code> header.
...	Further key/value parameters to store with the (R-level) driver object.
load_flags	Integer flags generated by adbc_load_flags()
subclass	An optional subclass for finer-grained control of behaviour at the R level.

Value

An object of class 'adbc_driver'

Examples

```
adbc_driver_void()
```

adbc_error_from_array_stream

Get extended error information from an array stream

Description

Get extended error information from an array stream

Usage

```
adbc_error_from_array_stream(stream)
```

Arguments

stream A [nanoarrow_array_stream](#)

Value

NULL if stream was not created by a driver that supports extended error information or a list whose first element is the status code and second element is the adbc_error object. The adbc_error must not be accessed if stream is explicitly released.

Examples

```
db <- adbc_database_init(adbc_driver_monkey())
con <- adbc_connection_init(db)
stmt <- adbc_statement_init(con, mtcars)
stream <- nanoarrow::nanoarrow_allocate_array_stream()
adbc_statement_execute_query(stmt, stream)
adbc_error_from_array_stream(stream)
```

adbc_load_flags

Driver search/load options

Description

Options that indicate where to look for driver manifests. Manifests (.toml files) can be installed at the system level, the user level, in location(s) specified by the ADBC_DRIVER_PATH environment variable, and/or in a conda environment. See the ADBC documentation for details regarding the locations of the user and system paths on various platforms.

Usage

```
adbc_load_flags(  
  search_env = TRUE,  
  search_user = TRUE,  
  search_system = TRUE,  
  allow_relative_paths = TRUE  
)
```

Arguments

- search_env Search for manifest files in the directories specified in the ADBC_DRIVER_PATH environment variable and (when installed with conda) in the conda environment.
- search_user Search for manifest files in the designated directory for user ADBC driver installs.
- search_system Search for manifest files in the designated directory for system ADBC driver installs.
- allow_relative_paths Allow shared objects to be specified relative to the current working directory.

Value

An integer flag value for use in `adbc_driver()`

adbc_statement_init	<i>Statements</i>
---------------------	-------------------

Description

Statements

Usage

```
adbc_statement_init(connection, ...)  
  
adbc_statement_init_default(connection, options = NULL, subclass = character())  
  
adbc_statement_release(statement)  
  
adbc_statement_set_options(statement, options)  
  
adbc_statement_get_option(statement, option)  
  
adbc_statement_get_option_bytes(statement, option)  
  
adbc_statement_get_option_int(statement, option)  
  
adbc_statement_get_option_double(statement, option)
```

Arguments

connection	An adbc_connection
...	Driver-specific options. These are generally named values that are converted to strings.
options	A named <code>character()</code> or <code>list()</code> whose values are converted to strings.
subclass	An extended class for an object so that drivers can specify finer-grained control over behaviour at the R level.
statement	An adbc_statement
option	A specific option name

Value

An object of class 'adbc_statement'

Examples

```
db <- adbc_database_init(adbc_driver_void())
con <- adbc_connection_init(db)
adbc_statement_init(con)
```

adbc_statement_set_sql_query
Statement methods

Description

Statement methods

Usage

```
adbc_statement_set_sql_query(statement, query)

adbc_statement_set_substrait_plan(statement, plan)

adbc_statement_prepare(statement)

adbc_statement_get_parameter_schema(statement)

adbc_statement_bind(statement, values, schema = NULL)

adbc_statement_bind_stream(statement, stream, schema = NULL)

adbc_statement_execute_query(
  statement,
  stream = NULL,
```

```

    stream_join_parent = FALSE
  )

  adbc_statement_execute_schema(statement)

  adbc_statement_cancel(statement)

```

Arguments

statement	An adbc_statement
query	An SQL query as a string
plan	A raw vector representation of a serialized Substrait plan.
values	A nanoarrow_array or object that can be coerced to one.
schema	A nanoarrow_schema or object that can be coerced to one.
stream	A nanoarrow_array_stream or object that can be coerced to one.
stream_join_parent	Use TRUE to invalidate statement and tie its lifecycle to stream.

Value

- `adbc_statement_set_sql_query()`, `adbc_statement_set_substrait_plan()`, `adbc_statement_prepare()`, `adbc_statement_bind()`, `adbc_statement_bind_stream()`, and `adbc_statement_execute_query()` return statement, invisibly.
- `adbc_statement_get_parameter_schema()` returns a [nanoarrow_schema](#).

Examples

```

db <- adbc_database_init(adbc_driver_void())
con <- adbc_connection_init(db)
stmt <- adbc_statement_init(con)
# (not implemented by the void driver)
try(adbc_statement_set_sql_query(stmt, "some query"))

```

adbc_xptr_move

Low-level pointer details

Description

- `adbc_xptr_move()` allocates a fresh R object and moves all values pointed to by `x` into it. The original R object is invalidated by zeroing its content. This is useful when returning from a function where [lifecycle helpers](#) were used to manage the original object.
- `adbc_xptr_is_valid()` provides a means by which to test for an invalidated pointer.

Usage

```
adbc_xptr_move(x, check_child_count = TRUE)
```

```
adbc_xptr_is_valid(x)
```

Arguments

x An 'adbc_database', 'adbc_connection', 'adbc_statement', or 'nanoarrow_array_stream'

check_child_count

Ensures that x has a zero child count before performing the move. This should almost always be TRUE.

Value

- `adbc_xptr_move()`: A freshly-allocated R object identical to x
- `adbc_xptr_is_valid()`: Returns FALSE if the ADBC object pointed to by x has been invalidated.

Examples

```
db <- adbc_database_init(adbc_driver_void())
adbc_xptr_is_valid(db)
db_new <- adbc_xptr_move(db)
adbc_xptr_is_valid(db)
adbc_xptr_is_valid(db_new)
```

read_adbc

Read, write, and execute on ADBC connections

Description

These are convenience methods useful for testing connections. Note that S3 dispatch is always on `db_or_con` (i.e., drivers may provide their own implementations).

Usage

```
read_adbc(db_or_con, query, ..., bind = NULL)
```

```
execute_adbc(db_or_con, query, ..., bind = NULL)
```

```
write_adbc(
  tbl,
  db_or_con,
  target_table,
  ...,
  mode = c("default", "create", "append", "replace", "create_append"),
```

```

    temporary = FALSE,
    catalog_name = NULL,
    db_schema_name = NULL
  )

```

Arguments

db_or_con	An <code>adbc_database</code> or <code>adbc_connection</code> . If a database, a connection will be opened. For <code>read_adbc()</code> , this connection will be closed when the resulting stream has been released.
query	An SQL query
...	Passed to S3 methods.
bind	A <code>data.frame</code> , <code>nanoarrow_array</code> , or <code>nanoarrow_array_stream</code> of bind parameters or <code>NULL</code> to skip the bind/prepare step.
tbl	A <code>data.frame</code> , nanoarrow_array , or nanoarrow_array_stream .
target_table	A target table name to which <code>tbl</code> should be written.
mode	One of "create", "append", "replace", "create_append" (error if the schema is not compatible or append otherwise), or "default" (use the <code>adbc_ingest.mode</code> argument of adbc_statement_init()). The default is "default".
temporary	Use <code>TRUE</code> to create a table as a temporary table.
catalog_name	If not <code>NULL</code> , the catalog to create/locate the table in.
db_schema_name	If not <code>NULL</code> , the schema to create/locate the table in.

Value

- `read_adbc()`: A [nanoarrow_array_stream](#)
- `execute_adbc()`: `db_or_con`, invisibly.
- `write_adbc()`: `tbl`, invisibly.

Examples

```

# On a database, connections are opened and closed
db <- adbc_database_init(adbc_driver_log())
try(read_adbc(db, "some sql"))
try(execute_adbc(db, "some sql"))
try(write_adbc(mtcars, db, "some_table"))

# Also works on a connection
con <- adbc_connection_init(db)
try(read_adbc(con, "some sql"))
try(execute_adbc(con, "some sql"))
try(write_adbc(mtcars, con, "some_table"))

```

with_adbc

*Cleanup helpers***Description**

Managing the lifecycle of databases, connections, and statements can be complex and error-prone. The R objects that wrap the underlying ADBC pointers will perform cleanup in the correct order if you rely on garbage collection (i.e., do nothing and let the objects go out of scope); however it is good practice to explicitly clean up these objects. These helpers are designed to make explicit and predictable cleanup easy to accomplish.

Usage

```
with_adbc(x, code)
```

```
local_adbc(x, .local_envir = parent.frame())
```

Arguments

<code>x</code>	An ADBC database, ADBC connection, ADBC statement, or <code>nanoarrow_array_stream</code> returned from calls to an ADBC function.
<code>code</code>	Code to execute before cleaning up the input.
<code>.local_envir</code>	The execution environment whose scope should be tied to the input.

Details

Note that you can use `adbc_connection_join()` and `adbc_statement_join()` to tie the lifecycle of the parent object to that of the child object. These functions mark any previous references to the parent object as released so you can still use local and with helpers to manage the parent object before it is joined. Use `stream_join_parent = TRUE` in `adbc_statement_execute_query()` to tie the lifecycle of a statement to the output stream.

Value

- `with_adbc()` returns the result of code
- `local_adbc()` returns the input, invisibly.

Examples

```
# Using with_adbc():
with_adbc(db <- adbc_database_init(adbc_driver_void()), {
  with_adbc(con <- adbc_connection_init(db), {
    with_adbc(stmt <- adbc_statement_init(con), {
      # adbc_statement_set_sql_query(stmt, "SELECT * FROM foofy")
      # adbc_statement_execute_query(stmt)
      "some result"
    })
  })
})
```

```
    })  
  })  
  
  # Using local_adbc_*() (works best within a function, test, or local())  
  local({  
    db <- local_adbc(adbc_database_init(adbc_driver_void()))  
    con <- local_adbc(adbc_connection_init(db))  
    stmt <- local_adbc(adbc_statement_init(con))  
    # adbc_statement_set_sql_query(stmt, "SELECT * FROM foofy")  
    # adbc_statement_execute_query(stmt)  
    "some result"  
  })
```

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