

# Package ‘adbcdrivermanager’

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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

*Connection methods*

---

### 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 <a href="#">adbc_connection</a>
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. For the default method, these are named values that are converted to strings.

### Value

- `adb_connection_get_info()`, `adb_connection_get_objects()`, `adb_connection_get_table_types()`, and `adb_connection_read_partition()` return a [nanoarrow\\_array\\_stream](#).
- `adb_connection_get_table_schema()` returns a [nanoarrow\\_schema](#)
- `adb_connection_commit()` and `adb_connection_rollback()` return connection, invisibly.

### Examples

```
db <- adb_database_init(adb_driver_void())
con <- adb_connection_init(db)
# (not implemented by the void driver)
try(adb_connection_get_info(con, 0))
```

---

adb\_connection\_init *Connections*

---

### Description

Connections

### Usage

```
adb_connection_init(database, ...)

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

adb_connection_release(connection)

adb_connection_set_options(connection, options)

adb_connection_get_option(connection, option)

adb_connection_get_option_bytes(connection, option)

adb_connection_get_option_int(connection, option)

adb_connection_get_option_double(connection, option)
```

**Arguments**

database	An <a href="#">adb_database</a> .
...	Driver-specific options. For the default method, these are 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 <a href="#">adb_connection</a>
option	A specific option name

**Value**

An object of class 'adb\_connection'

**Examples**

```
db <- adb_database_init(adb_driver_void())
adb_connection_init(db)
```

---

`adb_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**

```
adb_connection_join(connection, database)
```

```
adb_statement_join(statement, connection)
```

**Arguments**

connection	A connection created with <a href="#">adb_connection_init()</a>
database	A database created with <a href="#">adb_database_init()</a>
statement	A statement created with <a href="#">adb_statement_init()</a>

**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     *Databases*

---

**Description**

Databases

**Usage**

```
adbc_database_init(driver, ...)
```

```
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	An <a href="#">adbc_driver()</a> .
...	Driver-specific options. For the default method, these are 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 <a href="#">adbc_database</a> .
option	A specific option name

**Value**

An object of class `adbc_database`

**Examples**

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

---

adbc\_driver\_load      *Low-level driver loader*

---

**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 <code>DL_FUNC</code> with the type <code>AdbcDriverInitFunc</code> specified in the <code>adbc.h</code> 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 <code>adbc_load_flags()</code>
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      *Monkey see, monkey do!*

---

**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      *Create ADBC drivers*

---

**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 <code>adbc_load_flags()</code>
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 <a href="#">nanoarrow_array_stream</a>
--------	--

**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      *Statements*

**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 <a href="#">adbc_connection</a>
...	Driver-specific options. For the default method, these are 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 <a href="#">adbc_statement</a>
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 <a href="#">adbc_statement</a>
query	An SQL query as a string
plan	A raw vector representation of a serialized Substrait plan.
values	A <a href="#">nanoarrow_array</a> or object that can be coerced to one.
schema	A <a href="#">nanoarrow_schema</a> or object that can be coerced to one.
stream	A <a href="#">nanoarrow_array_stream</a> 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	<i>Read, write, and execute on ADBC connections</i>
-----------	---

---

### 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

<code>db_or_con</code>	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.
<code>query</code>	An SQL query
<code>...</code>	Passed to S3 methods.
<code>bind</code>	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.
<code>tbl</code>	A <code>data.frame</code> , <a href="#">nanoarrow_array</a> , or <a href="#">nanoarrow_array_stream</a> .
<code>target_table</code>	A target table name to which <code>tbl</code> should be written.
<code>mode</code>	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 <a href="#">adbc_statement_init()</a> ). The default is "default".
<code>temporary</code>	Use <code>TRUE</code> to create a table as a temporary table.
<code>catalog_name</code>	If not <code>NULL</code> , the catalog to create/locate the table in.
<code>db_schema_name</code>	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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