

Package: mabr (via r-universe)

September 7, 2024

Title Work with Microsoft Access Files

Version 0.2.1

Description Use the open source 'MDB Tools' utilities
<<https://github.com/mdbtools/mdbtools/>>. Primarily used for
converting proprietary Microsoft Access files to simple text
files and then reading those as data frames.

License GPL-3

URL <https://k5cents.github.io/mabr/>, <https://github.com/k5cents/mabr>

BugReports <https://github.com/k5cents/mabr/issues>

Imports readr

Suggests testthat

Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.1

SystemRequirements mdbtools: mdbtools (deb).

Repository <https://k5cents.r-universe.dev>

RemoteUrl <https://github.com/k5cents/mabr>

RemoteRef HEAD

RemoteSha e4a69e71b58266dc75055e80a21d5b6344de14de

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 export_mdb

Export an Access database table as a text file

Description

Convert the data of a table into a delimited text string. Save the string as a character vector or write it to a text file. This direct conversion makes it easy to read tables into R or a spreadsheet.

Usage

```
export_mdb(
  file,
  table,
  output = TRUE,
  delim = ",",
  quote = "\"",
  quote_escape = "double",
  col_names = TRUE,
  eol = "\n",
  date_format = "%Y-%m-%d %H:%M:%S"
)
```

Arguments

| | |
|--------------|---|
| file | Path to the Microsoft Access file. |
| table | Name of the table, list with <code>mdb_tables()</code> . |
| output | Path or connection to write to. Passed to the <code>stdout</code> argument of <code>system2()</code> . Possible values are "", to the R console (the default), NULL or FALSE (discard output), TRUE (capture the output in a character vector) or a character string naming a file. |
| delim | Delimiter used to separate values. |
| quote | Single character used to quote strings. Defaults to ".". |
| quote_escape | The type of escaping to use for quoted values, one of "double", "backslash" or "none". You can also use FALSE, which is equivalent to "none". The default is "double", which is expected format for Excel. |
| col_names | If FALSE, column names will not be included at the top of the file. If TRUE, column names will be included. |
| eol | The end of line character to use. Most commonly either "\n" for Unix style newlines, or "\r\n" for Windows style newlines. |
| date_format | The format in which date columns are converted. MDB Tools uses the <code>strftime(3)</code> format, similar to <code>readr::parse_date()</code> . No need to specify whole string. Defaults to ISO8601. |

Value

Character string, invisible if path to file.

Examples

```
## Not run:
export_mdb(mdb_example(), "Airlines", output = TRUE)

## End(Not run)
```

| | |
|-------------|--------------------------------|
| mdb_example | <i>Get path to mdb example</i> |
|-------------|--------------------------------|

Description

mdbr comes bundled with a sample file from the [nycflights13](#) package in its inst/extdata directory. This function make it easy to access.

Usage

```
mdb_example(path = "nycflights13.mdb")
```

Arguments

path path to the Microsoft Access file.

| | |
|------------|---|
| mdb_schema | <i>Specification for columns in a table</i> |
|------------|---|

Description

Used to determine the column types for [read_mdb\(\)](#). Passed to col_types in `readr::read_delim()`.

Usage

```
mdb_schema(file, table, condense = FALSE)
```

Arguments

file Path to the Microsoft Access file.
table Name of the table, list with [mdb_tables\(\)](#).
condense Should [readr::cols_condense\(\)](#) be called on the spec?

Value

A readr cols specification list.

Examples

```
## Not run:
mdb_schema(mdb_example(), "Flights", condense = TRUE)

## End(Not run)
```

| | |
|------------|---|
| mdb_tables | <i>List tables in a Microsoft Access database</i> |
|------------|---|

Description

List tables in a Microsoft Access database

Usage

```
mdb_tables(file)
```

Arguments

file Path to the Microsoft Access file.

Value

A character vector of table names.

| | |
|----------|-----------------------------------|
| read_mdb | <i>Read a table as data frame</i> |
|----------|-----------------------------------|

Description

Use [export_mdb\(\)](#) to write a table as a temporary CSV file, which is then read as a data frame using [readr::read_delim\(\)](#).

Usage

```
read_mdb(file, table, col_names = TRUE, col_types = NULL, ...)
```

Arguments

file Path to the Microsoft Access file.

table Name of the table, list with [mdb_tables\(\)](#).

col_names Whether or not to suppress column names from the table.

col_types One of NULL, a [readr::cols\(\)](#) specification, or a string. See [vignette\("readr"\)](#) for more details. Use TRUE to create a generic [readr::cols\(\)](#) specification with [mdb_schema\(\)](#).

... Additional arguments passed to [readr::read_delim\(\)](#).

Value

A data frame.

Examples

```
## Not run:  
read_mdb(mdb_example(), "Airlines")
```

```
## End(Not run)
```

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