Package 'mdbr'

March 12, 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/mdbr/>, <https://github.com/k5cents/mdbr>

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

Imports readr

Suggests testthat

Encoding UTF-8

RoxygenNote 7.3.1

SystemRequirements mdbtools: mdbtools (deb).

NeedsCompilation no

Author Kiernan Nicholls [aut, cre, cph]
(<https://orcid.org/0000-0002-9229-7897>)

Maintainer Kiernan Nicholls <k5cents@gmail.com>

Repository CRAN

Date/Publication 2024-03-12 08:00:02 UTC

R topics documented:

---

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 mdb_tables().
output	Path or connection to write to. Passed to the stdout argument of [system2()](). 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 strftime(3) format, similar to [readr::parse_date()](). 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   *Get path to mdbr example*

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   *Specification for columns in a table*

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   *List tables in a Microsoft Access database*

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   *Read a table as data frame*

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)
```

Index