



R and SQLite





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- Connect
- Query





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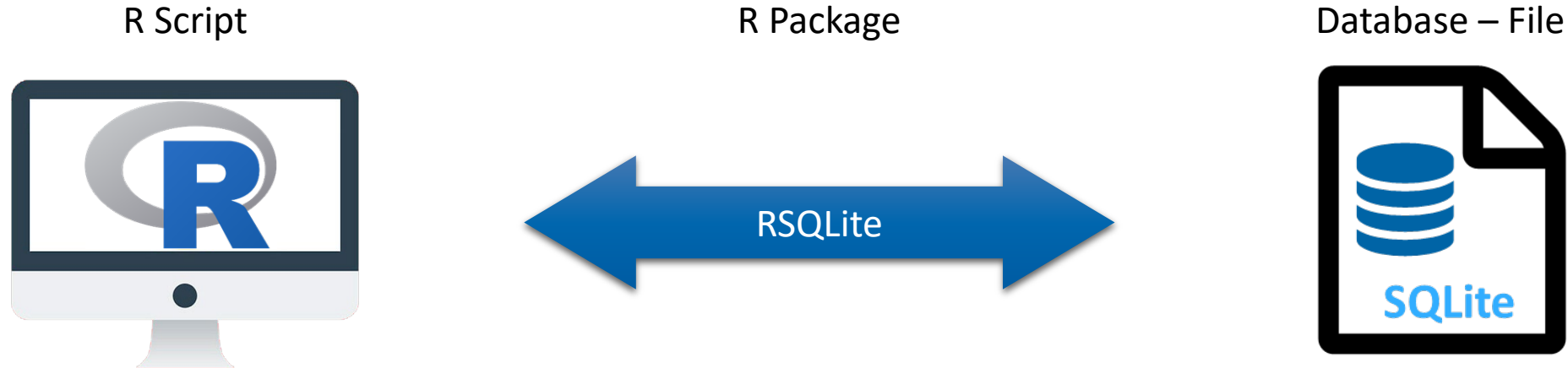


Introduction

SQLite

To be able to connect to a MySQL database in R, the package **RSQLite** is required.

```
> install.packages("RSQLite")
```





Connect

The first thing to do in R to access a SQLite database is to [establish a connection](#) to the file.

```
# import RSQLite package
library(RSQLite)

# establish a connection to the MySQL database
database <- dbConnect(SQLite(), dbname='filename')

# close connection
dbDisconnect(database)
```



Connect

Configuration

Nothing to do here... no secure information has to be stored.



Connect

Errors

Nothing to do here... we leave error handling to the functions defined in the RSQLite-package.



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Query

Exactly the same as with the RMySQL package...

To execute a query, the function **dbSendQuery** is used:

```
# statement
query <- "some valid sql statement;"

# execute statement
dbSendQuery(database, query)
```



Query

Exactly the same as with the RMySQL package...

INSERT

```
# set values
value1 <- 10
value2 <- "shrubby"

# statement
query <- paste0("INSERT INTO tablename (attribut1, attribute2)
                VALUES (", value1, ",", value2, ");")

# execute statement
dbSendQuery(database, query)
```

SELECT

```
# set value
value <- 10

# statement
query <- paste0("SELECT * FROM tablename
                WHERE attribute = ", value, ";")

# execute statement
result <- dbSendQuery(database, query)

# get the data
data <- dbFetch(result, n=-1)
```



Query

Exactly the same as with the RMySQL package...

dbReadTable

```
# get the data  
data = dbReadTable(database, "tablename")
```

dbWriteTable

```
# write to database  
dbWriteTable(database, "tablename", data)  
  
# overwrite if table already exists  
dbWriteTable(database, "tablename", data, overwrite=TRUE)  
  
# append data if table already exists  
dbWriteTable(database, "tablename", data, append=TRUE)
```