



Connecting R to SQream with JDBC

SQream Technologies

Version 2019.2.1

Copyright © 2010-2019. All rights reserved.

This document is provided for information purposes only and the contents hereof are subject to change without notice. This document is not warranted to be error-free, nor subject to any other warranties or conditions, whether expressed orally or implied in law, including implied warranties and conditions of merchant- ability or fitness for a particular purpose.

We specifically disclaim any liability with respect to this document and no contractual obligations are formed either directly or indirectly by this document.

This document may not be reproduced in any form, for any purpose, without our prior written permission.

Table of Contents

Table of Contents	3
Connecting R to SQream with JDBC	4
Make sure RJDBC is installed:	4
Obtain the SQream JDBC JAR	4
Create a connection and test it	4

Connecting R to SQream with JDBC

This article describes how to create a new connection to SQream in R via the JDBC driver.

Make sure RJDBC is installed:

1. In the R console, type:

```
> library(RJDBC)
```

If this succeeds, skip to the next section.

2. If it did not succeed, install RJDBC by typing:

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

3. Then run the `library` command again to verify that the install succeeded:

```
> library(RJDBC)
```

Obtain the SQream JDBC JAR

Download the following JAR file:

- SqreamJDBC.jar

The example below assumes that the driver is copied to *C:\Program Files\SQream Technologies\JDBC Driver (Windows)*.

For Linux, copy to an appropriate working directory.

Create a connection and test it

Below is a sample connection script to do the following:

- Create a classpath
- Initialize the java runtime around it
- Create a new connection

Note the following:

- Make sure to substitute your appropriate connection and java classpath information.

Specifically, note:

- <your server address>
- <your server port>
- <your database name>

- <SQream user name>
- <SQream user password>.
- The example uses the SQream default service name (**sqream**).
- The example queries a table as follows:
 - Table name = 'test_table'
 - 2 columns, x and y
 - 2 rows of data

```
> cp = c("C:\\Program Files\\SQream Technologies\\JDBC
Driver\\SqreamJDBC.jar")

> .jinit(classpath=cp)
[1] 0

> drv <- JDBC("com.sqream.jdbc.SQDriver", " C:\\Program Files\\SQream
Technologies\\JDBC Driver\\SqreamJDBC.jar")

> con <- dbConnect(drv, "jdbc:Sqream://<your server address>:<your server
port>/<your database name>;user=<SQream user name>;password=<SQream user
password> ;service=sqream;cluster=<TRUE/FALSE>;ssl=<TRUE/FALSE>")
> dbGetQuery(con, "SELECT COUNT(*) as cnt FROM test_table")
      cnt
1      2
> dbGetQuery(con, "SELECT * FROM test_table")
      x y
1 1 5
2 4 6
```

For further assistance please contact SQream support.