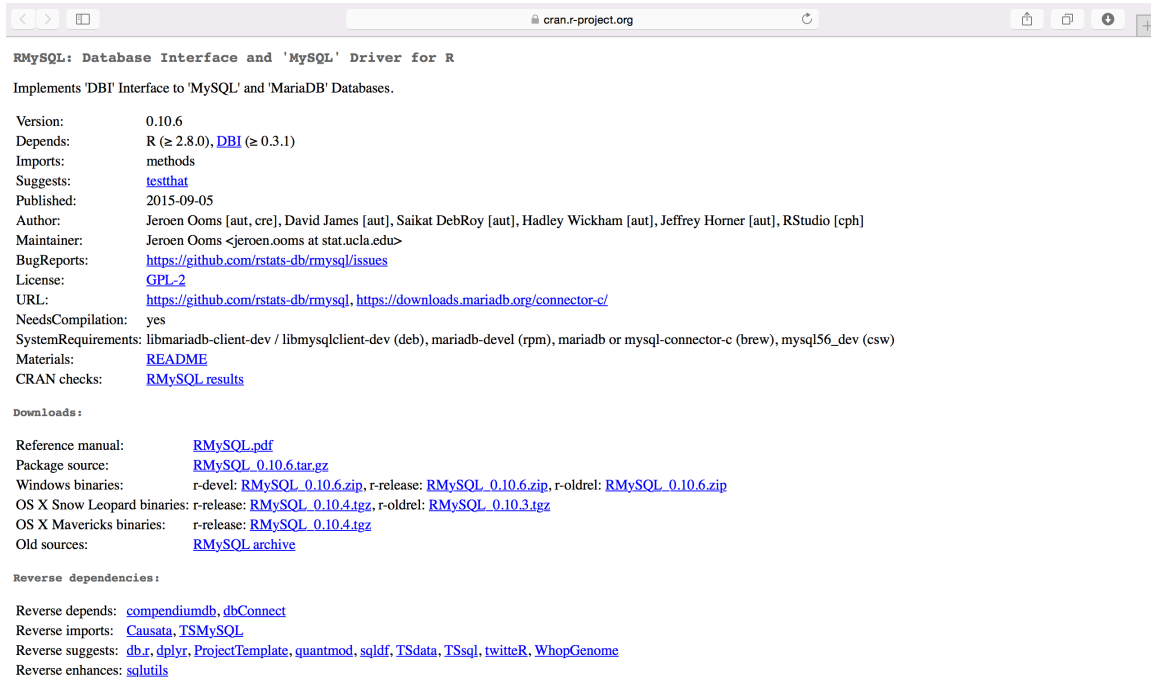


# CONNECTING TO THE MySQL Database using R for MAC OS X

- 1) To connect to MySQL using R use the RMySQL package. You can download the package from the following link:

<https://cran.r-project.org/web/packages/RMySQL/index.html>



The screenshot shows a web browser window displaying the CRAN page for the RMySQL package. The page title is "RMySQL: Database Interface and 'MySQL' Driver for R". The page content includes the following information:

- Implements DBI Interface to 'MySQL' and 'MariaDB' Databases.
- Version: 0.10.6
- Depends: R (≥ 2.8.0), DBI (≥ 0.3.1)
- Imports: methods
- Suggests: testthat
- Published: 2015-09-05
- Author: Jeroen Ooms [aut, cre], David James [aut], Saikat DebRoy [aut], Hadley Wickham [aut], Jeffrey Horner [aut], RStudio [cph]
- Maintainer: Jeroen Ooms <jeroen.ooms at stat.ucla.edu>
- BugReports: <https://github.com/rstats-db/rmysql/issues>
- License: GPL-2
- URL: <https://github.com/rstats-db/rmysql>, <https://downloads.mariadb.org/connector-c/>
- NeedsCompilation: yes
- SystemRequirements: libmariadb-client-dev / libmysqlclient-dev (deb), mariadb-devel (rpm), mariadb or mysql-connector-c (brew), mysql56\_dev (csw)
- Materials: [README](#)
- CRAN checks: [RMySQL results](#)

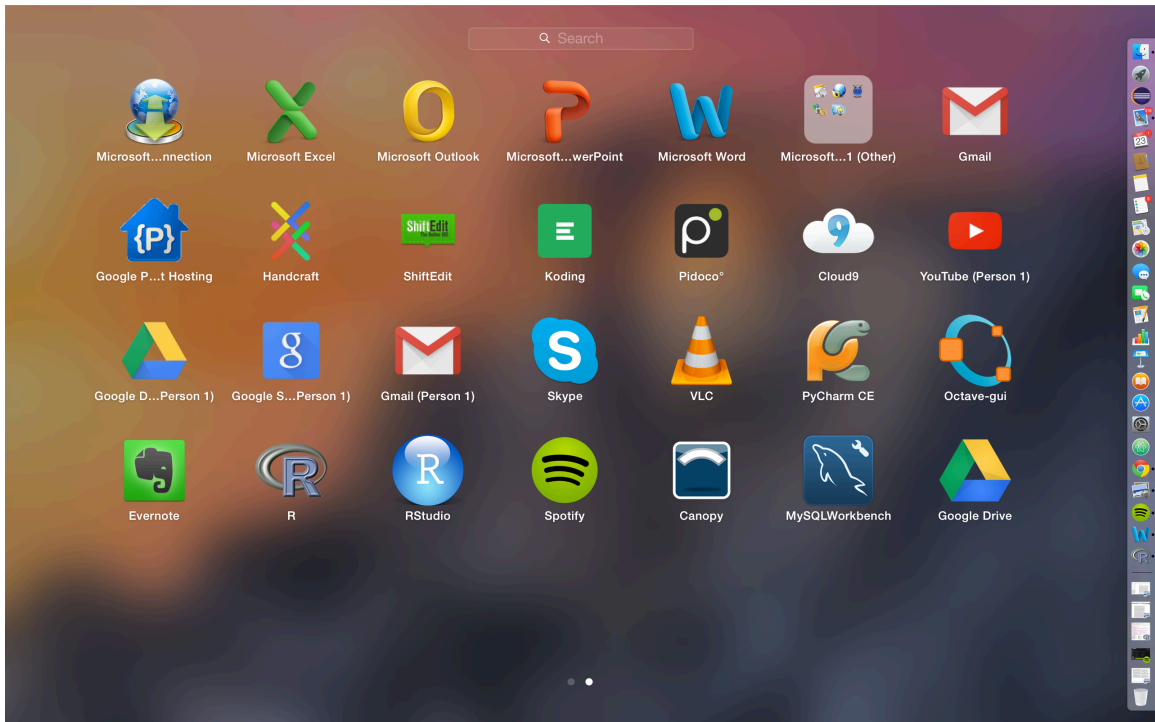
Downloads:

- Reference manual: [RMySQL.pdf](#)
- Package source: [RMySQL\\_0.10.6.tar.gz](#)
- Windows binaries: r-devel: [RMySQL\\_0.10.6.zip](#), r-release: [RMySQL\\_0.10.6.zip](#), r-oldrel: [RMySQL\\_0.10.6.zip](#)
- OS X Snow Leopard binaries: r-release: [RMySQL\\_0.10.4.tgz](#), r-oldrel: [RMySQL\\_0.10.3.tgz](#)
- OS X Mavericks binaries: r-release: [RMySQL\\_0.10.4.tgz](#)
- Old sources: [RMySQL archive](#)

Reverse dependencies:

- Reverse depends: [compendiumdb](#), [dbConnect](#)
- Reverse imports: [Causata](#), [TSMYSQL](#)
- Reverse suggests: [db.r](#), [dplyr](#), [ProjectTemplate](#), [quantmod](#), [sqldf](#), [TSdata](#), [TSsql](#), [twitterR](#), [WhopGenome](#)
- Reverse enhances: [sqlutils](#)

- 2) Download the RMySQL\_0.10.4.tgz file. This is the package that will provide the required functions to connect R to MySQL.
- 3) Open the R Terminal from the Launcher.



```

-
Q Help Search
> ls
function (name, pos = -1L, envir = as.environment(pos), all.names = FALSE,
pattern, sorted = TRUE)
{
  if (missing(name)) {
    pos <- tryCatch(name, error = function(e) e)
    if (inherits(pos, "error")) {
      name <- substitute(name)
      if (!is.character(name))
        name <- deparse(name)
      warning(paste0("%s converted to character string",
        sQuote(name)), domain = NA)
      pos <- name
    }
  }
  all.names <- .Internal(ls(envir, all.names, sorted))
  if (missing(pattern)) {
    if ((ll <- length(grep("[", pattern, fixed = TRUE])) &&
      ll != length(grep("]", pattern, fixed = TRUE))) {
      if (pattern == "[") {
        pattern <- "]"
        warning("replaced regular expression pattern '[' by '\\[('")
      } else if (length(grep("[^\\\\\\\\\\\\\\\\[<-" , pattern])) {
        pattern <- sub("[<-" , "\\[<-" , pattern)
        warning("replaced '[' by '\\[<-' in regular expression pattern")
      }
    }
    grep(pattern, all.names, value = TRUE)
  } else all.names
}
#bytecode: 0x7f88cb818980
<environment: namespace:base>
> install.packages("RMySQL", lib = "/data/Rpackages/")
Warning in install.packages("RMySQL", lib = "/data/Rpackages/") :
  'lib = "/data/Rpackages/" is not writable
Would you like to use a personal library instead? (y/n) n
Error in install.packages("RMySQL", lib = "/data/Rpackages/") :
  unable to install packages
> install.packages("RMySQL", type = "source")
--- Please select a CRAN mirror for use in this session ---
trying URL 'http://lib.stat.cmu.edu/R/CRAN/src/contrib/RMySQL_0.10.6.tar.gz'
Content type 'application/x-gzip' length 52407 bytes (51 KB)
downloaded 51 KB

* installing *source* package 'RMySQL' ...
** package 'RMySQL' successfully unpacked and MD5 sums checked
Using PKG_CONFIG_PATH=/usr/local/opt/mysql-connector-c/include
Using PKG_LIBS=-L/usr/local/opt/mysql-connector-c/lib -lmysqlclient -lz
----- ANTICONF ERROR -----
Configuration failed because mysql-connector-c was not found. Try installing:
* deb: libmysqlclient-dev | libmariadbclient-dev (Debian, Ubuntu)
* rpm: mariadb-devel | mysql-devel (Fedora, CentOS, RHEL)
* csw: mysql56_dev (Solaris)
* brew: mysql-connector-c (OSX)
If mysql-connector-c is already installed, check that 'pkg-config' is in your
PATH and PKG_CONFIG_PATH contains a mysql-connector-c.pc file. If pkg-config
is unavailable you can set INCLUDE_DIR and LIB_DIR manually via:
R CMD INSTALL --configure-vars='INCLUDE_DIR=... LIB_DIR=...'
-----
ERROR: configuration failed for package 'RMySQL'
* removing '/Library/Frameworks/R.framework/Versions/3.2/Resources/Library/RMySQL'

```

- 4) To install the package use the following command on the R Terminal.  
**install.packages('/Users/priyank\_kumar/Downloads/RMySQL\_0.10.4.tgz',repos = NULL, type='source')**. The first argument of the function is the location of the package on your system, second argument is for setting up repositories on the system and the third is for the type of installation package.
- 5) After you get the success message proceed with the following instructions.
- 6) To create a connection to the MySQL server use the following command:  
**connObj <- dbConnect(MySQL(), user='root', password='root', dbname='mysql', host='localhost')**  
Argument 1 – MySQL()  
Argument 2 – Username  
Argument 3 – Password  
Argument 4 – Database name of database you want to select  
Argument 5 – Hostname
- 7) You have now a connection object named as connObj and you can use it to perform various operations.
- 8) An example of a MySQL query in R is provided below:  
**rs <- dbSendQuery(connObj, "select name from user limit 10;")**  
In this we use the connection object created above as the first argument and provide the query required as the second argument.
- 9) After you have completed the assigned work use **dbDisconnect(connObj)** to release the connection.