
*Instructions for connecting to the ODBC/MySQL database
that houses the Durham County Social Determinants of
Health (DCSDH) data*

To connect directly within R on both Windows and macOS, run the following code. For more detail about querying the database and R syntax, see the example script file "Durham_DB_query.Rmd".

```
install.packages("RMySQL")
library(RMySQL)
mydb <- dbConnect(MySQL(), user = 'NetID', host='ssri-duprisql.vm.duke.edu',
  password='PASSWORD', dbname = 'durham_county_social_determinants_of_health')
```

To connect to the data over ODBC on Windows:

1. Download the MySQL ODBC Connector from <https://dev.mysql.com/downloads/connector/odbc>. It should detect your operating system and auto select the correct version, but you can change it if needed.

You'll be shown a Login/Sign Up page after you click the Download button, but you can just click the "No thanks, just start my download" link down below the Login/Sign Up block.

*Be sure to install the Microsoft Visual Studio 2019 Redistributable. It is available at <https://support.microsoft.com/en-us/topic/the-latest-supported-visual-c-downloads-2647da03-1eea-4433-9aff-95f26a218cc0>. Click on the link for "vc_redist.x64.exe" and run the installer.

2. Open the installer and run through the installation steps for the MySQL ODBC Connector.
3. Launch the ODBC Data Source Administrator (this should come pre-installed on your machine) and set up your DSN as follows:
 - Select the User DSN tab
 - Click Add...
 - Select MySQL ODBC 8.0 Unicode Driver
 - Enter the following information
 - o Data Source Name: social_determinants_of_health
 - o Description: Durham County Social Determinants of Health
 - o TCP/IP Server: ssri-duprisql.vm.duke.edu
 - o User: NetID
 - o Password: Password
 - o Database: durham_county_social_determinants_of_health

4. To open the DSN in R, run the following code. For more detail about querying the database and R syntax, see the example script file "Durham_DB_query.Rmd".

```
install.packages("RODBC")

library(RODBC)
mydb <- odbcConnect("social_determinants_of_health")
```

5. To open the DSN in Stata and access the database, run the following code. For more detail about querying the database and Stata syntax, see the example do file "Durham_DB_query.do".

```
odbc list
odbc query "social_determinants_of_health"
odbc describe "building_units", dsn("social_determinants_of_health")
odbc describe "tract_health_and_ins_stats", dsn("social_determinants_of_health")
```

6. To open the DSN in SAS and access the database, run the following code.

```
LIBNAME SQL ODBC DSN='social_determinants_of_health' user=NetID pw=Password;

proc sql;
connect to odbc (dsn=social_determinants_of_health user=NetID pwd=Password);
create table test as select * from connection to odbc(select * from building_units);
quit;
```

To connect to the data over ODBC on macOS:

1. Download the MySQL ODBC Connector from <https://dev.mysql.com/downloads/connector/odbc>. It should detect your operating system and auto select the correct version, but you can change it if needed.

You'll be shown a Login/Sign Up page after you click the Download button, but you can just click the "No thanks, just start my download" link down below the Login/Sign Up block.

2. Open the disk image and run through the installation steps for the MySQL ODBC Connector.
3. Download and install ODBC Manager from <http://www.odbcmanager.net>. Launch the application and set up your DSN as follows:
 - Select the User DSN tab
 - Click Add...
 - Select MySQL ODBC 8.0 Unicode Driver.
 - Enter the following information
 - o Data Source Name: social_determinants_of_health
 - o Description: Durham County Social Determinants of Health
 - o TCP/IP Server: ssri-duprisql.vm.duke.edu
 - o User: NetID

- Password: Password
- Database: durham_county_social_determinants_of_health

4. To open the DSN in R, run the following code. For more detail about querying the database and R syntax, see the example script file “Durham_DB_query.Rmd”.

```
install.packages("RODBC")  
  
library(RODBC)  
mydb <- odbcConnect("social_determinants_of_health")
```

5. To open the DSN in Stata and access the database, run the following code. For more detail about querying the database and Stata syntax, see the example do file “Durham_DB_query.do”.

```
odbc list  
odbc query "social_determinants_of_health"  
odbc describe "building_units", dsn("social_determinants_of_health")  
odbc describe "tract_health_and_ins_stats", dsn("social_determinants_of_health")
```

6. To open the DSN in SAS and access the database, run the following code.

```
LIBNAME SQL ODBC DSN='social_determinants_of_health' user=NetID pw=Password;  
  
proc sql;  
connect to odbc (dsn=social_determinants_of_health user=NetID pwd=Password);  
create table test as select * from connection to odbc(select * from building_units);  
quit;
```