Run SQL scripts from class 1

- Open MySQL Workbench and connect to the database server (follow steps in this link)

- Open the script file *step1_create_college_database.sql* ("File > Open SQL Script...")

- Run the script (clicking on lightning button)
  - This will create two new tables

Open a new query window ("File > New Query Tab") and run the following SQL:

```
use college;
show tables;
```

This will display the two newly created tables.

Then run each of the following SQL statements, which will return no data in the tables:

```
select * from enrollments;
select * from students;
```

Open and run the script file *step2_populate_college_database.sql*

This populates the two tables with data.

Now run each of the SELECT statements to view data in these tables.

```sql
use college;
select * from enrollments;
select * from students;
```

Practice your SQL by running each the following statements:

```
select * from students;


select * from students
where first_name = 'Dave';


select * from students
where gender = 'M';


select * from students
where date_of_birth < '1999-01-01';
```

Practice your SQL by running each the following statements:

```
select * from students
where first_name = 'Dave'
and last_name = 'Smith';


select * from students
where gender = 'M'
or gender = 'F';
```

- Now try variations of these SQL statements of your own!

Download the MySQL example database 'sakila' on your personal computer

- **Note: If you are using the class computers, this database is already installed for you!**

- Download the zip file under Example Databases on this page: https://dev.mysql.com/doc/index-other.html

- Unzipping this file shows it's contents:
  - sakila-schema.sql: creates the database structure
  - sakila-data.sql: populates the database with data
  - sakila.mwb: a database diagram that can be opened in Workbench using "File > Open Model"

- From Workbench, open and run *sakila-schema.sql.* This creates all your database tables.
  - Click on the "Schemas" table on the left hand side and refresh to see the newly created database.

- Then, open and run *sakila-data.sql*. This populates the tables with data.

- Open sakila.mwb using "File > Open Model..." to view a database diagram for this database.

Run some queries on 'sakila'

```
use sakila;

select * from actor;
select first_name, last_name from actor;


select * from film;


select title from film
where rating = 'PG-13';
```

View the definition of tables

```
use sakila;


describe actor;
describe film;
describe country;
```

Notice the Type and other properties defined for each field.

Documentation

- Retrieving information from a table:
  https://dev.mysql.com/doc/refman/8.0/en/retrieving-data.html