**Many-to-Many:**

* Ensure that MySQL is running on your machine, open MySQL Workbench, and start your local instance
* In a new .sql file, use the USE command to work within the practice database
* Create a new table for books with a SMALLINT primary key and a title of type VARCHAR(255)
* Create a new table for authors with a SMALLINT primary key and a full\_name of type VARCHAR(100)
* Execute the query
* Open the file many\_to\_many\_data.sql and execute it to populate books and authors
* Create a new table called book\_authors that has a SMALLINT primary key and foreign keys for book\_id and author\_id
* Populate the table with the following values:
  + (1, 6), (1,7), (1,8), (1,9),(2, 2), (2, 3), (2, 4), (2, 5),(3, 1), (4,1);
* Select all columns from book\_authors and execute the query

**SQL Joins:**

* Ensure that MySQL is running on your machine, open MySQL Workbench, and start your local instance
* In a new .sql file, use the USE command to work within the sakila database
* Select city.city and country.country from city and left join country on the country\_id in both tables
* Execute the query
* Clear or comment out the current select statement
* Select a concatenation of actor.first\_name and actor.last\_name and category.name from actor and cross join category
* Execute the query and explain that the results show us all of the possible combinations of actors and film categories they could act in