Requirements:

* Python3

FOR MAC:

1. First install the mysql and mysqlclient. Both are required. Follow the instructions [here](https://ruddra.com/posts/install-mysqlclient-macos/#step-one-install-brew)
2. Open a terminal window if one is not open. Enter:  
   mysql\_secure\_installation
3. Press any key besides ‘y’ or ‘Y’ to say no to the password validator
4. Set the password to “password”. If you do not set the password to “password” your migrations won’t work. In order for Django to connect to the database you have to set a password in “Django/count\_proj/settings.py” I already set it but the migrations won’t work if you don’t the password to your database does not match.
5. No need to disallow root remote login. Enter n.
6. Enter y
7. Enter y

FOR WINDOWS:

Installing mysql and the connector

1. Install mysql from the following link
2. Run the installed
3. If asked to apply updates select yes
4. In the setup type select “Custom”
5. If you see items in the box under “Products/Features To Be Installed” click the double back arrow  
   A screenshot of a social media post

   Description automatically generated
6. Select MySQL Servers> MySQL Server 8.0> MySQL Server 8.0.19 - X64 then click the green forward arrow
7. Select Applications> MySQL Shell> MySQL Shell 8.0.19 - X64 then click the green forward arrow
8. Lastly select MySQL Connectors> Connector/Python> Connector/Python 8.0 > Connector/Python 8.0.19 - X64
9. The box under Products/Features to be installed should now have the following three things. If you already have mysql installed just install the connector. A screenshot of a social media post

   Description automatically generated
10. Then select Next or Execute keeping the default settings

After installing mysql and the connector

1. You will have to update the ‘ENTER\_PASSWORD\_HERE’ and ‘ENTER\_DATABASE\_NAME\_HERE’ field in Django/count\_proj/settings.py.
2. Open the mysql shell
   1. Windows
      1. Open the Command Prompt
      2. Change the mysql directory. Then follow command is the default location.   
         cd C:\Program Files\MySQL\MySQL Server 8.0\bin
      3. Switch to the mysql command line  
         mysql -u root -p
   2. Mac
      1. Open a terminal window
      2. mysql -u root -p
3. Enter the password “password”
4. Create an empty database by running. Later the tables will be automatically created using the models.py file. Note: The database must be named “test\_db” because that is table set in the settings found in “Django/count\_proj/settings.py”  
   CREATE DATABASE test\_db;
5. Switch to this database by running:  
   USE test\_db;
6. Open a new terminal window (keep the other terminal window open)
7. <Go to path\_to\_project/Django/count\_proj
8. Build the migration files using models.py  
   python3 manage.py makemigrations
9. Enter the changes into the database:  
   python3 manage.py migrate
10. Open the first terminal window you created (prompt should be “mysql> ”)
11. Show the tables currently in the database  
    SHOW TABLES;
12. You should see tables named “countmanager\_\*”. There should be one entry for each of the classes in Django/count\_proj/countmanager/models.py