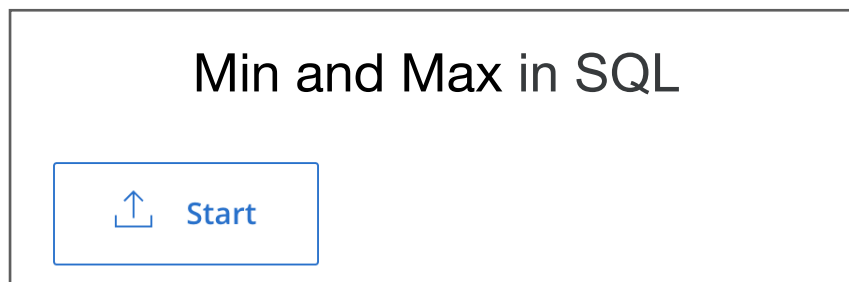# Min and Max in SQL

Welcome to this Lab activity

In this lab activity you will be exploring how to use the min and max aggregate functions. For the purpose of this lab you will be working with the Terminal panel inside Visual Studio Code.

Start the Lab environment application

It is simple to launch a lab exercise. You only need to click on the light blue button "Start" below the activity title to enter a lab environment.

Let's explore this lab activity. Go ahead and click on the "Start" button!
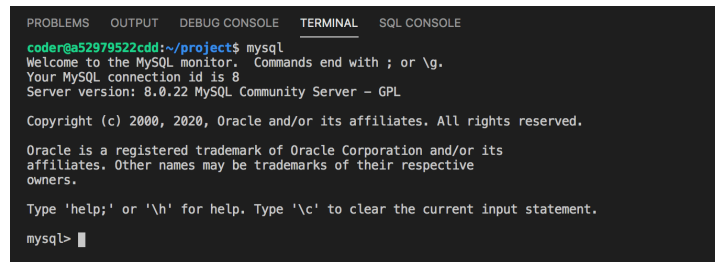
Min and Max in SQL

↑ Start

Task 1: Accessing the MySQL interactive shell

The folder structure has already been partially constructed for you and organised into different topics. For the purpose of this lab, you are not required to make any changes to the folder structure. You can see a folder called "topic9" inside this lab environment; it is only there as a reference for you and you are not required to add any content to it. Let's get started!

In order to access your mysql interactive shell use the Visual Studio Code Terminal and run the following command:

- **mysql**: type this command and press *Enter*. This command will log you into mysql shell as the root(default) user.

If you have successfully followed all the above steps you should now be logged in inside mysql and see the following result on the Terminal:

Task 2: View databases

- First see what databases you already have linked to your virtual server:

SHOW DATABASES;

Task 3: Query the data in mySQL shell

Let's first work with the "mysecondBookshop" database:

- Switch to the "mysecondBookshop" database:

USE <DATABASE_NAME>;

- Replace <DATABASE_NAME> with the name of your database ("mysecondBookshop")

- Find the cheapest book:

- Find the most expensive book:

SELECT MIN(price) FROM Book;

SELECT MAX(price) FROM Book;

You can also perform the above operation in the "myRestaurantMenu" database;

USE <DATABASE_NAME>;

- Replace <DATABASE_NAME> with the name of your database ("myRestaurantMenu")

- Find the cheapest dish:

- Find the most expensive dish:

  Which database query do you need to use to perform the above tasks?

Task 4: Exit mysql shell

Exiting the mysql shell is very straight forward. In your Terminal panel type the following command:

- **exit**: type this command and press *Enter*. This command will log you out from your mysql virtual server.

If you have successfully exited the database you will get the following confirmation:

```
mysql> exit
Bye
root@7fbe1633ac7c:/home/coder/project#
```

End of Section

Congratulations for completing this section. You have seen how MIN and MAX can be used when querying a database. In the next lab activity you will be practicing more with database operations and explore right and left joins.