Image source: https://freebiesupply.com/logos/mysql-logo/

ASSIGNMENT 1

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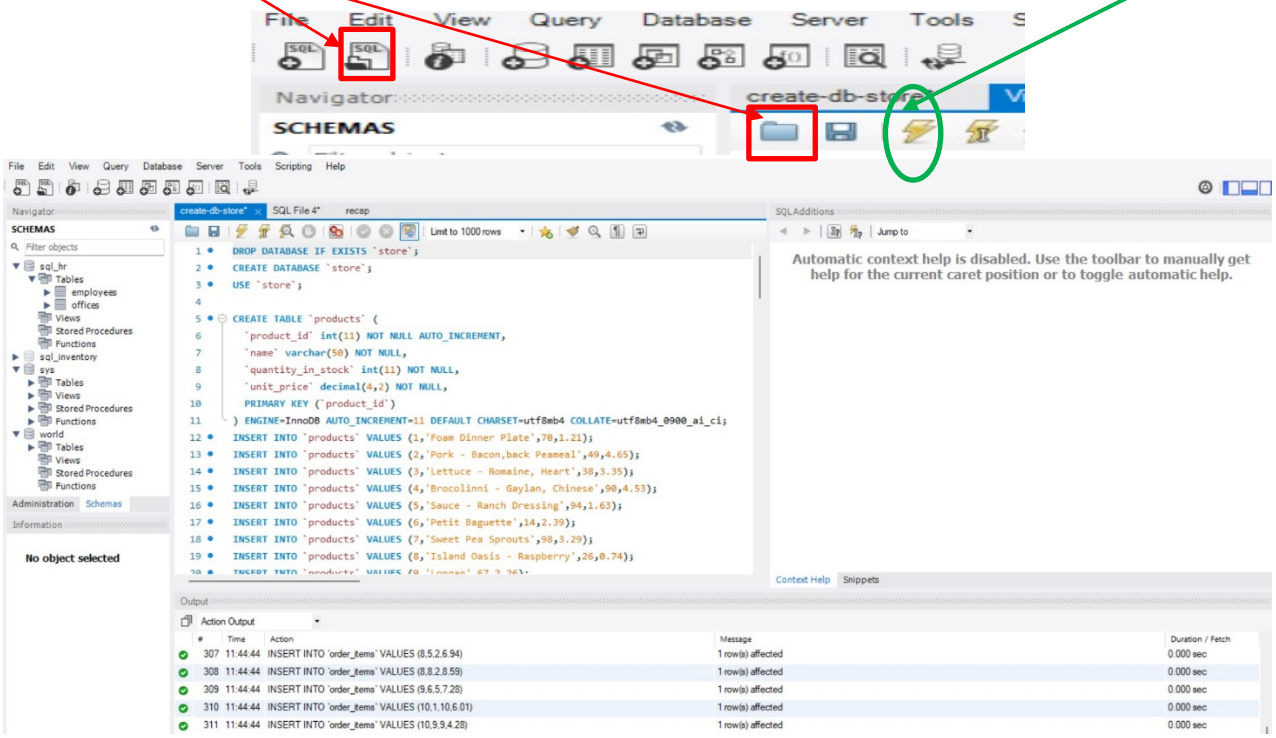
CONTENTS

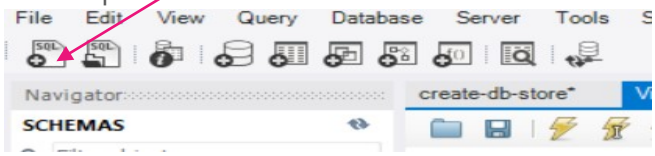
Query 1 :

Connecting to the database:

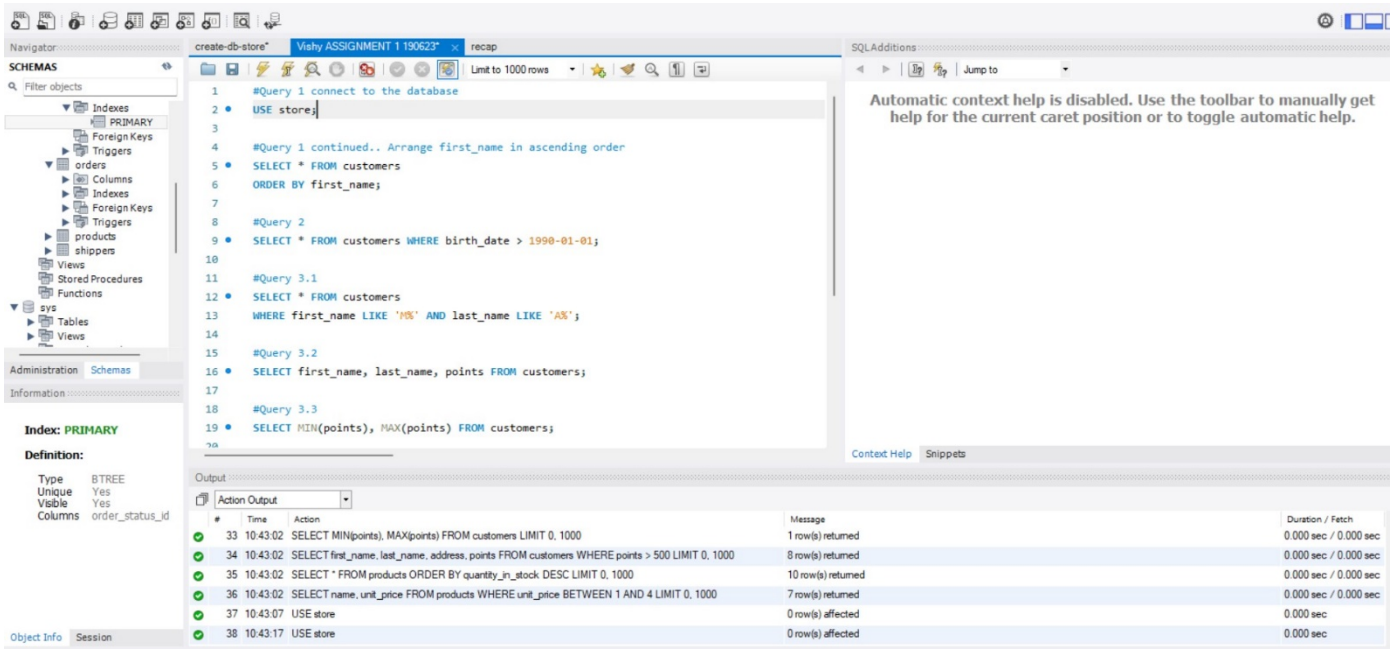
We were given the store database to work on this assignment. I first opened the MYSQL workbench. Using the open script icon, I loaded the store database. To run the database script, I then clicked on the lightning bolt button.



I then opened a new script file to write my queries. The first command I wrote was USE store; This helped the new script to connect to the store database and use its tables for my queries.



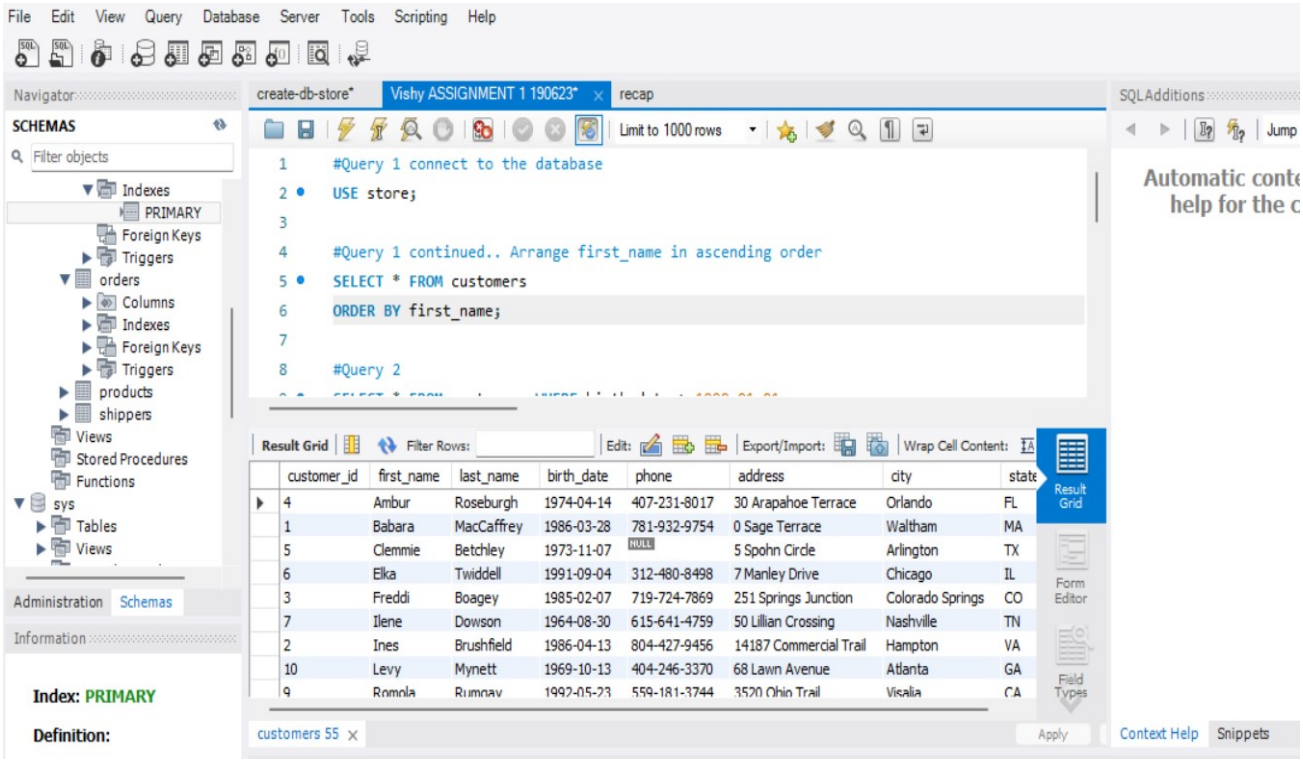
In MYSQL function/ main commands- SELECT, FROM, ORDER BY, WHERE, LIKE, LIMIT etc. are written in uppercase, whereas the table names are written in lower case. I have followed this rule to do my assignment.



Query 1 continued :

Arrange first_name in ascending order

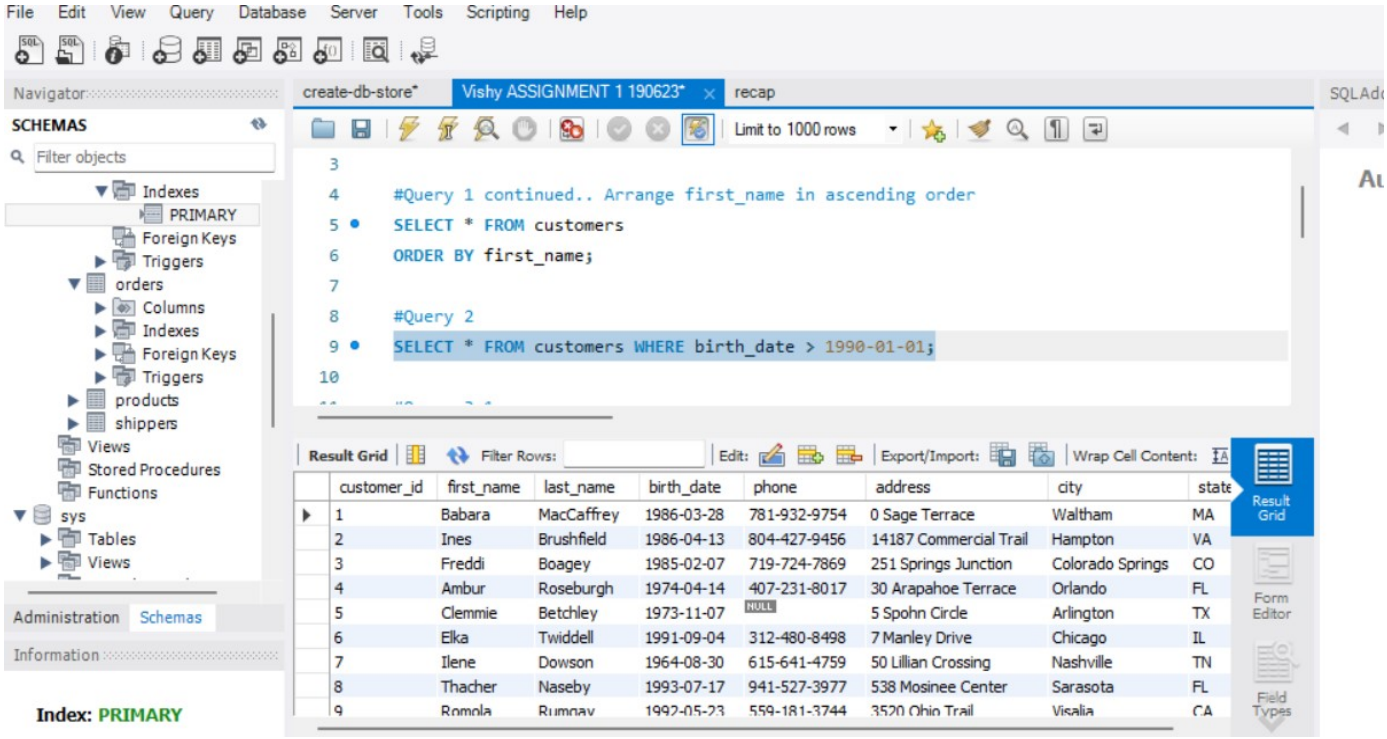
I put in the syntax SELECT * FROM customers ORDER BY first_name; This command helped me in listing all the customers from the store tables- customers by their first names in ascending order which is the MYSQL default.



Query 2:

Create a new query to find all the customers with a birth date of > '1990-01-01'

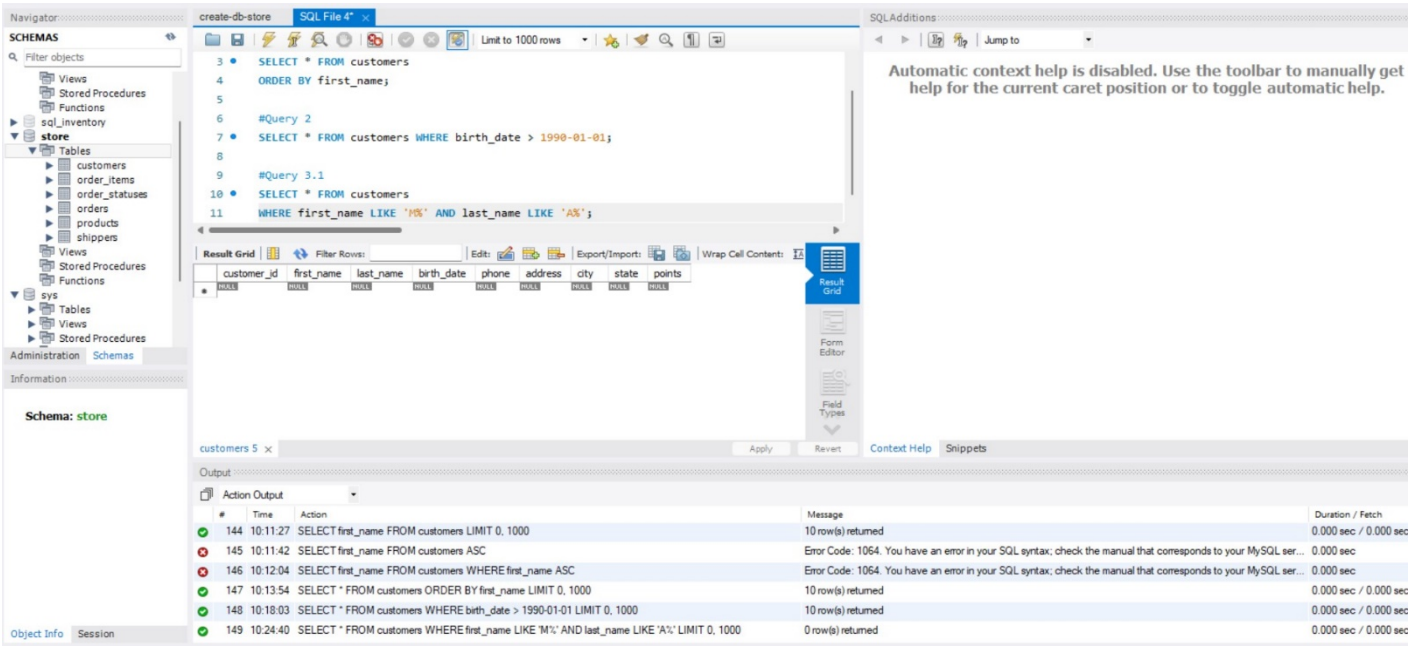
I used the syntax SELECT * (*this helps in selecting all) FROM the table customers putting the condition WHERE their date of birth is > 1990-01-01 to list the information.



Query 3.1 :

Write a query to find all customers whose first_name starts with the letter M and last starts with the letter A.

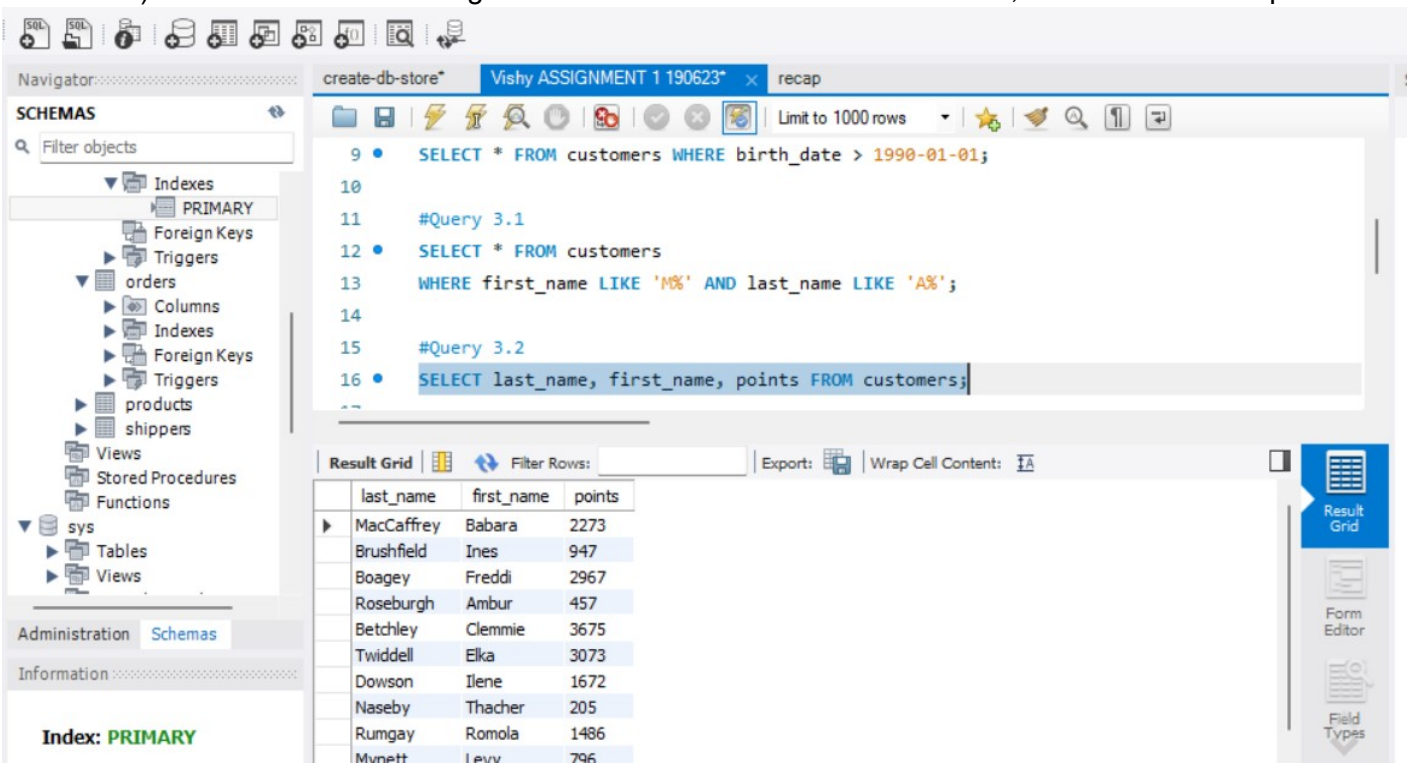
Again I used the command SELECT * FROM customers table putting the condition WHERE as I needed only those customers whose first name started with M giving the command LIKE 'M%' (since it's a string I put the letter in single inverted commas with the% sign to denote exact match) and last name with A giving the command LIKE 'A%' (similar to the first name command with letter M)



Query 3.2

Write a statement to show last_name, first_name and points

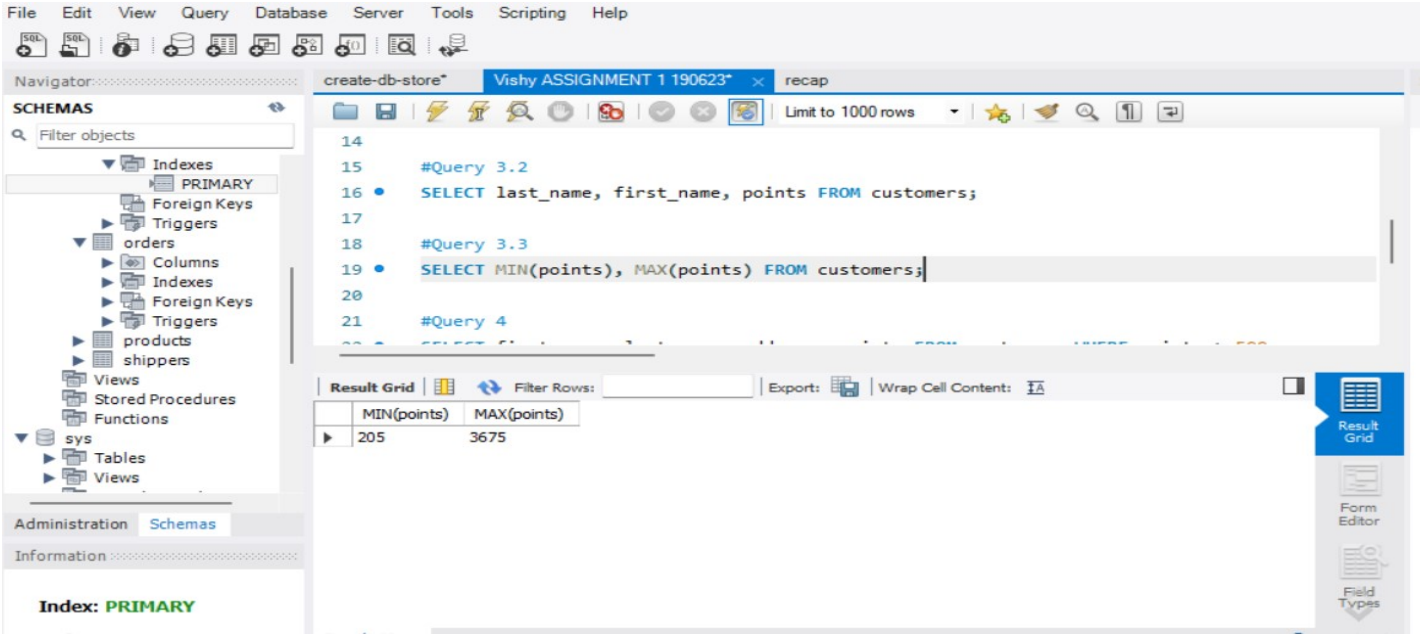
This syntax was very straightforward. I listed the last name, first name, and the points of all the customers from the customers table by giving the command SELECT last_name, first_name, points (in the order mentioned) FROM customers. This got me the result in the order of last name, first name and the points.



Query 3.3:

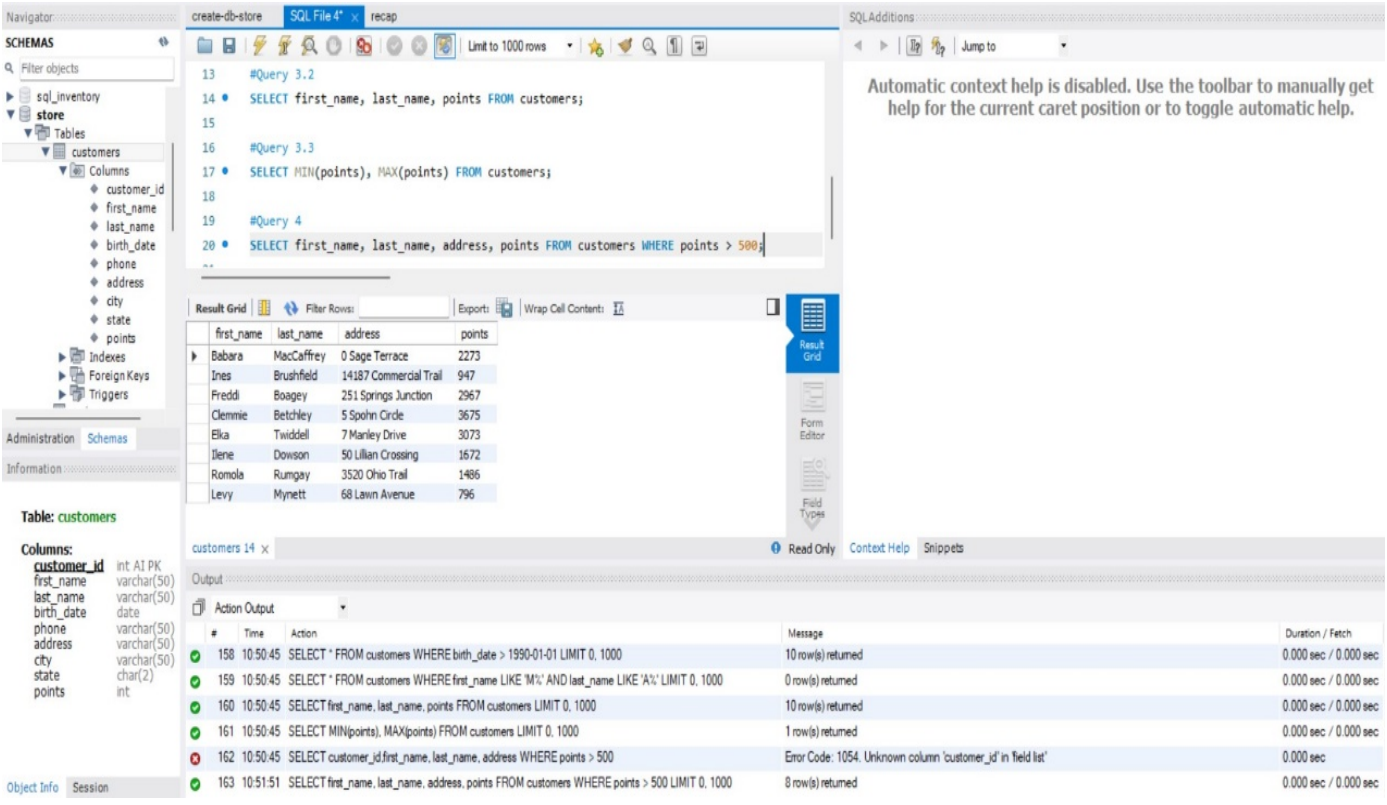
Write a query to find the minimum and maximum points

I gave the command SELECT MIN- for minimum (points), and MAX- for maximum (points) FROM the table customers; (the semicolon is used to end the syntax.)



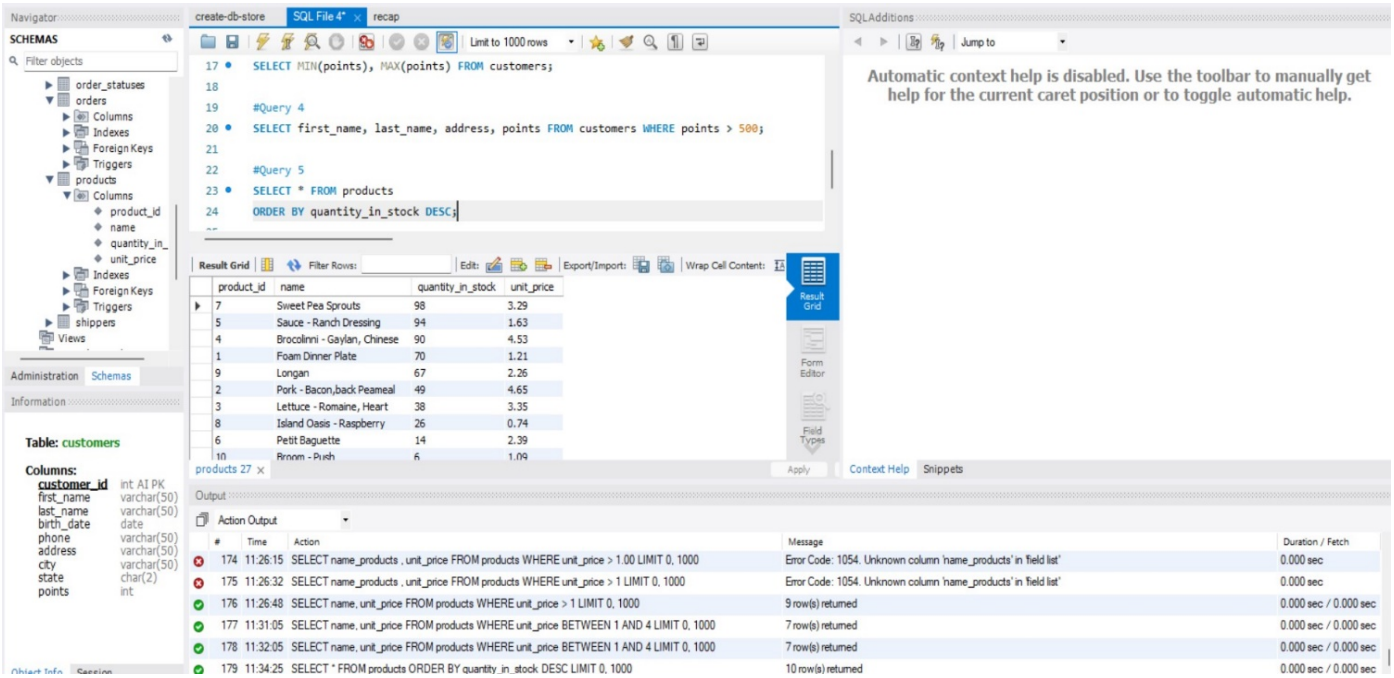
ADDITIONAL QUERIES

Query 4 : I wrote a query to find the first name, last name, address and points of the customers giving a condition WHERE their points are >500



Query 5 : I wrote a query to find the Quantity in stock of the products in descending order

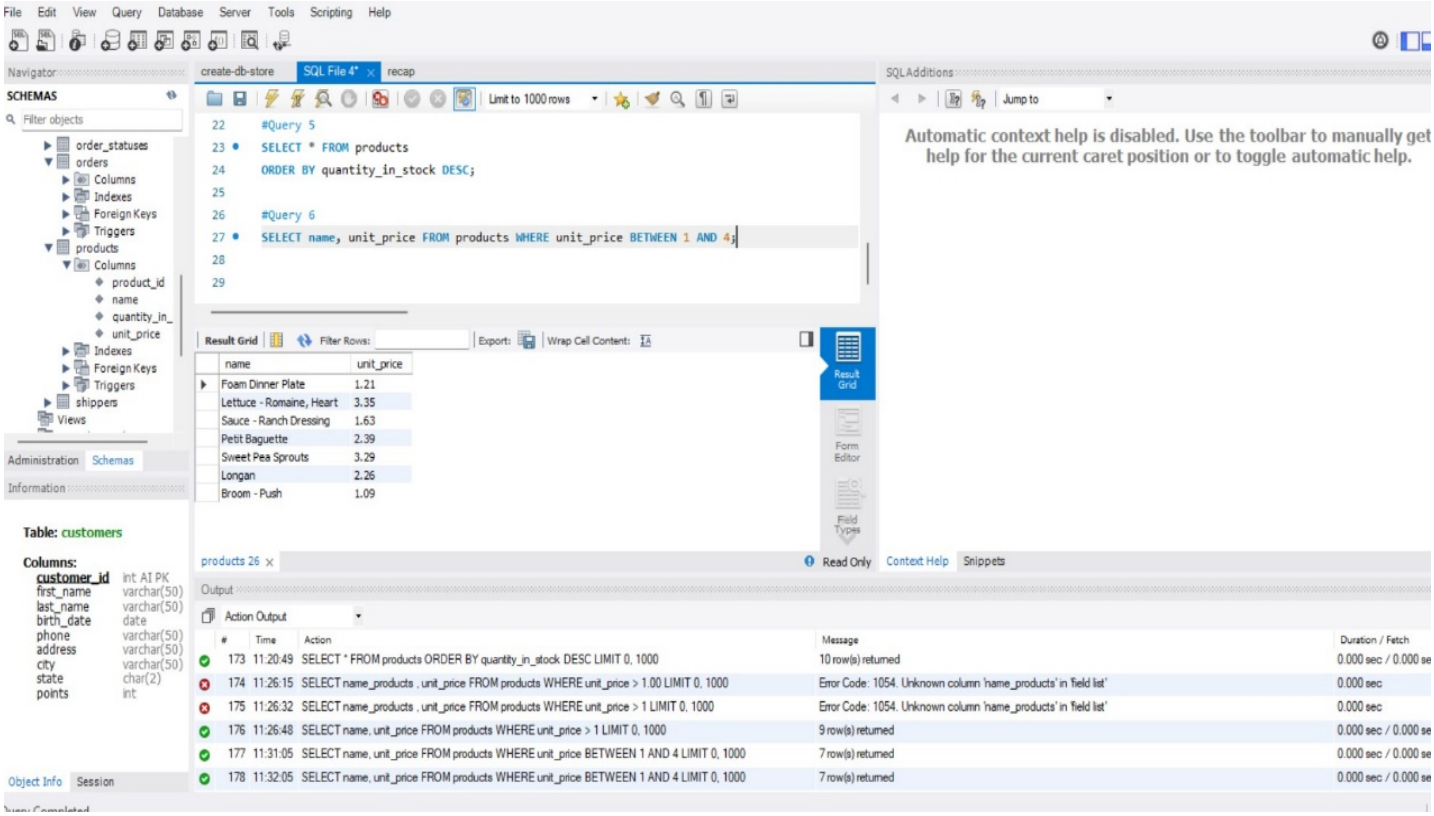
For doing so I put in the syntax SELECT * FROM products (table) ordering by the column quantity in stock (in descending order) DESC;



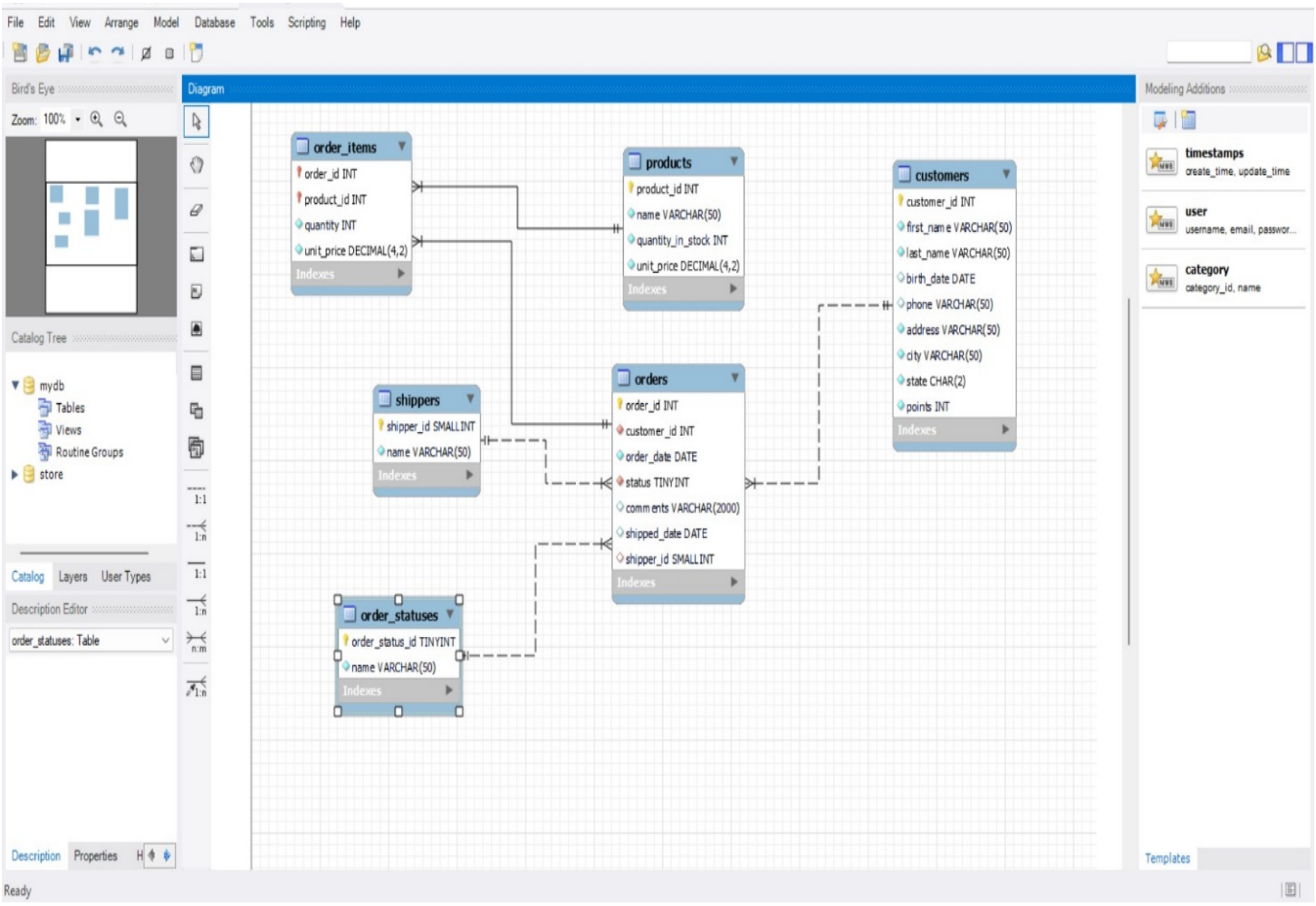
Query 6 : I wrote a query to find the names of the products and unit prices in the range of 1 to 4.

In order to get the range of the product names and their unit prices between 1 to 4 I put in the syntax SELECT name, unit_price FROM products WHERE unit_price BETWEEN 1 AND 4 (Although the name turned blue in the script it did get me the result. When I tried changing it into a variable it came with an error; as mentioned in the class, if any column name changes to blue it may be in use elsewhere and we need to give a variable. So I went ahead with the name itself.)

Using the command BETWEEN, AND gave me the exact result of the range between 1 and 4.



EER Diagram



Identifying the primary key and the foreign key

	PRIMARY KEY	FOREIGN KEY
order_items	order_id/ product_id	order_id
products	product_id	product_id
customers	customer_id	customer_id
orders	order_id	Order_id, customer_id, shippers_id, order_status_id
shippers	shipper_id	Shipper_id
order_statuses	order_status_id	order_status_id