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justit

Assignment 1

My SQL

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**How to upload my database file and run it by using the bolt symbol and USE function**

First, I uploaded the database to MySQL then I clicked on the bolt to run the database and the refresh symbol to refresh my schemas.

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**USE store;**

I used the USE function to connect the store table to my queries. I ended that function with a semi colon ; to separate each SQL statements I would be executing later on.

**Query 1 Arrange first\_name in ascending order:**A screenshot of a computer

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**SELECT first\_name FROM customers**

**ORDER BY first\_name;**

I used SELECT statement to select data from the database followed by first\_name, to collect that variable and FROM the customers data lastly ORDER BY first\_name, the ORDER BY clause sorts the records ‘first\_name’ into ascending order.

**Query 2 Create a new query to find all the customers with a birth date of > '1990-01-01'**

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The function I used to return the results was this syntax:

**SELECT\* FROM customers**

**WHERE birth\_date > '1990-01-01';**

I used SELECT followed by the asterisk \* to return all the results from the database then I used FROM to specify which table to select the data from which was ‘customers. Lastly, I used the WHERE clause to filter the birth\_date followed by the > greater than operator as I wanted birth\_date greater than '1990-01-01'. I used the quotation marks ‘’ to indicate that this is the exact date I needed to return.

**Query 3 Write a query to find all customers whose first\_name starts with the letter M and last\_name starts with the letter A.**

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**SELECT\* FROM customers**

**WHERE first\_name LIKE 'M%' AND last\_name LIKE 'A%';**

To return the results to this query I used the SELECT\* function to return all the results from the database followed by the FROM clause to specify the table I needed which is customers then I used the WHERE clause to filter first\_name followed by the LIKE clause, The LIKE clause is a logical operator used to return a specific pattern from a column in a table. I used this to find the names that start with M followed by the % percentage sign to show SQL that I wanted the character ‘M’ to be found. Lastly, I used AND function to filter both results as I wanted to return first\_name and last\_name for my query.

**Query 4 Write a statement to show  last\_name, first\_name and points in the output**

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**SELECT last\_name, first\_name, points FROM customers;**

I used the SELECT function followed by last\_name, first\_name, and points these are the specific columns I wanted to view in my results. I also used a comma as a separator to separate the columns I needed as without them SQL wouldn’t understand my syntax. I finished by using FROM clause to specify the table I wanted to view which was the customers one.

**Query 5 Write a query to find the minimum and maximum points**

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**SELECT MIN(points), MAX(points) FROM customers**

In my query I started off with the SELECT function as I’m using a particular database to retrieve all my data from followed by the MIN clause as this clause returns the smallest value in the selected column which was the points column I used the open parenthesis when inputting the points in the bracket as this is the value I want to filter and I used closed parenthesis so that it could return these points. Then I used a separator followed by the MAX clause because it returns the largest value in the points column. Lastly, I used the FROM clause to specify the table I wanted to use data from which was the customers table.

**Additional Queries**

I wanted to find out how any orders there were that had the customer ID under 5

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**SELECT\***

**FROM orders**

**WHERE customer\_id <5**

I used the SELECT\* statement to return all the data followed by the FROM clause as I wanted the orders data returned and I used WHERE clause to filter my specify condition which was the customer\_id under 5 this is written as <5 in SQL syntax as the operator < is less than and 5 was the chosen customer\_id I wanted.

**Rearrange you EER data to fit on one page**

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**Questions for EER Diagram**

**Primary Keys:**

Order items – Order\_id

Order\_statuses – Order\_status \_id

Shippers – shipper\_id

Customers – customer\_id

Products – product\_id

Orders – order\_id

**Foreign Keys:**

Order items – product\_id is a foreign key