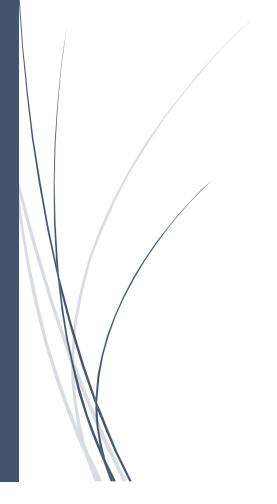7/18/2023

MySQL

Assignment 2
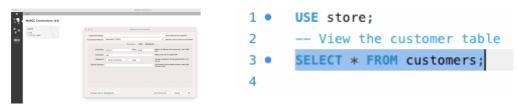
Stephen smith

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Task 1 – SQL Queries

Query 1- Connect to the database and view the customer table.


```
1 •   USE store;
2     -- View the customer table
3 •   SELECT * FROM customers;
4
```

customer_id	first_name	last_name	birth_date	phone	address	city	state	points
1	Babara	MacCaffrey	28/03/1986	781-932-975	0 Sage Terra	Waltham	MA	2273
2	Ines	Brushfield	13/04/1986	804-427-945	14187 Comm	Hampton	VA	947
3	Freddi	Boagey	07/02/1985	719-724-786	251 Springs .	Colorado Spr	CO	2967
4	Ambur	Roseburgh	14/04/1974	407-231-801	30 Arapahoe	Orlando	FL	457
5	Clemmie	Betchley	07/11/1973	NULL	5 Spohn Circl	Arlington	TX	3675
6	Elka	Twiddell	04/09/1991	312-480-849	7 Manley Dri	Chicago	IL	3073
7	Ilene	Dowson	30/08/1964	615-641-475	50 Lillian Crc	Nashville	TN	1672
8	Thacher	Naseby	17/07/1993	941-527-397	538 Mosinee	Sarasota	FL	205
9	Romola	Rumgay	23/05/1992	559-181-374	3520 Ohio Tr	Visalia	CA	1486
10	Levy	Mynett	13/10/1969	404-246-337	68 Lawn Ave	Atlanta	GA	796

Query 1.1- Arrange first_name in ascending order.

```
5     -- First name in ascending order;
6 •   SELECT * FROM Customers
7     Order by first_name asc;
```

customer_id	first_name	last_name	birth_date	phone	address	city	state	points
8	Thacher	Naseby	1993-07-17	941-527-3977	538 Mosinee Center	Sarasota	FL	205

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

```
9     -- customers with birth date of>1990-01-01
10 •  SELECT * FROM customers
11    Where birth_date > 1990-01-01;
```

customer_id	first_name	last_name	birth_date	phone	address	city	state	points
1	Babara	MacCaffrey	1986-03-28	781-932-9754	0 Sage Terrace	Waltham	MA	2273
2	Ines	Brushfield	1986-04-13	804-427-9456	14187 Commercial Trail	Hampton	VA	947
3	Freddi	Boagey	1985-02-07	719-724-7869	251 Springs Junction	Colorado Springs	CO	2967
4	Ambur	Roseburgh	1974-04-14	407-231-8017	30 Arapahoe Terrace	Orlando	FL	457
5	Clemmie	Betchley	1973-11-07	NULL	5 Spohn Circle	Arlington	TX	3675
6	Elka	Twiddell	1991-09-04	312-480-8498	7 Manley Drive	Chicago	IL	3073
7	Ilene	Dowson	1964-08-30	615-641-4759	50 Lillian Crossing	Nashville	TN	1672
8	Thacher	Naseby	1993-07-17	941-527-3977	538 Mosinee Center	Sarasota	FL	205
9	Romola	Rumgay	1992-05-23	559-181-3744	3520 Ohio Trail	Visalia	CA	1486
10	Levy	Mynett	1969-10-13	404-246-3370	68 Lawn Avenue	Atlanta	GA	796

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Query 3.1- Write a query to find all customers whose first_name starts with the letter M and last_name starts with the letter A.

```
13        -- customers with name starting with M and last name starts with the letter A
14 •      SELECT * from customers
15        Where first_name Rlike 'M' and last_name Rlike 'A';
```
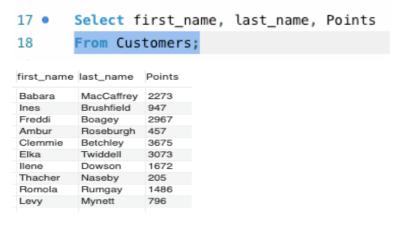
customer_id	first_name	last_name	birth_date	phone	address	city	state	points
▶ 9	Romola	Rumgay	1992-05-23	559-181-3744	3520 Ohio Trail	Visalia	CA	1486

Query 3.2- Write a query to show last_name, first_name and points In the output

```
17 •      Select first_name, last_name, Points
18        From Customers;
```

first_name	last_name	Points
Babara	MacCaffrey	2273
Ines	Brushfield	947
Freddi	Boagey	2967
Ambur	Roseburgh	457
Clemmie	Betchley	3675
Elka	Twiddell	3073
Ilene	Dowson	1672
Thacher	Naseby	205
Romola	Rumgay	1486
Levy	Mynett	796

Query 3.3- Write a query to find the minimum and maximum points

```
17        -- last name, first name and points
18 •      Select last_name, first_name and points;
19        -- Min Points
20 •      Select Min(Points) FROM customers;
21        -- Max Points
22 •      Select Max(points) FROM Customers; |
```

Min...	Max...
▶ 205	▶ 3675

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Query 4- Which city does Levy Mynett live in?

```
27    -- finding customer city
28 •  SELECT City FROM customers;
29 •  Select first_name, last_name, city FROM customers
30    Where first_name = 'Levy' AND last_name = 'Mynett';
```

first_name	last_name	city
Levy	Mynett	Atlanta

Query 4.1- Find the products with a unit price between 3 and 8.

```
32    -- products with a unit price between 3 and 8
33 •  SELECT name, unit_price From products
34    WHERE unit_price BETWEEN 3 AND 8;
```

name	unit_price
Pork - Bacon,back Peameal	4.65
Lettuce - Romaine, Heart	3.35
Brocolinni - Gaylan, Chinese	4.53
Sweet Pea Sprouts	3.29

Query 5- What is the order status for customer 10?

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```
36      -- Order status for customer 10
37 •    Select customer_id, status
38      From orders
39      where customer_id = 10;
```

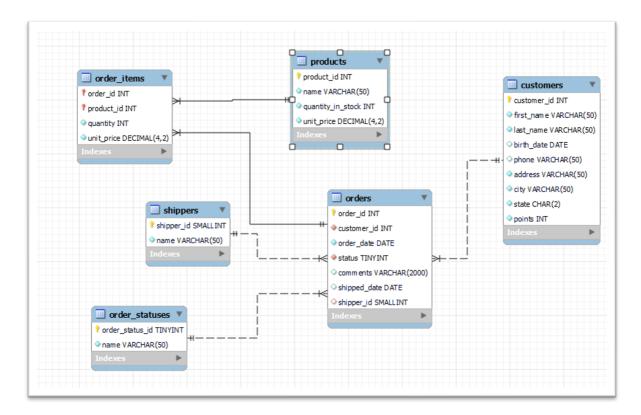| customer_id	status
▸ 10	1
10	2

Query 5.1- What is the name of the shipper with id 5?

```
41      -- the name of the shipper with id 5
42 •    Select name from shippers
43      where shipper_id = 5;
```

name
Waters, Mayert and Prohaska

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Creating an ERR Diagram

Primary Keys for Each Table

- Products: product_id INT
- Order_Items: None
- Shippers: Shipper_id SMALL INT
- Order _Statuses: Order_status_id
- Orders: Order_id
- Customers: Customer_id

Foreign Key for Each Table

- Products:
- Order_Items: Order_id, Product_id
- Shippers:
- Order _Statuses:
- Orders: customer_id, statuses, shipper_id
- Customers:

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Additional Queries

Query 1: The name of all products, quantity in stock and unit price

```
43      -- the name of all products
44 •    SELECT * FROM PRODUCTS;
```

product_id	name	quantity_in_stock	unit_price
7	Sweet Pea Sprouts	98	3.29
5	Sauce - Ranch Dressing	94	1.63
4	Brocolinni - Gaylan, Chinese	90	4.53
1	Foam Dinner Plate	70	1.21
9	Longan	67	2.26
2	Pork - Bacon,back Peameal	49	4.65
3	Lettuce - Romaine, Heart	38	3.35
8	Island Oasis - Raspberry	26	0.74
6	Petit Baguette	14	2.39
10	Broom - Push	6	1.09

Query 2: The Customer Orders that have been shipped.

```
46      -- the customer orders that have been shipped
47 •    SELECT * FROM Orders
48      Order by Shipped_Date desc;
```

order_id	customer_id	order_date	status	comments	shipped_date	shipper_id
7	2	2018-09-22	2	NULL	2018-09-23	4
2	7	2018-08-02	2	NULL	2018-08-03	4
10	6	2018-04-22	2	NULL	2018-04-23	2
5	5	2017-08-25	2		2017-08-26	3
9	10	2017-07-05	2	Nulla mollis molestie lorem. Quisque ut erat.	2017-07-06	1
1	6	2019-01-30	1	NULL	NULL	NULL
3	8	2017-12-01	1	NULL	NULL	NULL
4	2	2017-01-22	1	NULL	NULL	NULL
6	10	2018-11-18	1	Aliquam erat volutpat. In congue.	NULL	NULL
8	5	2018-06-08	1	Mauris enim leo, rhoncus sed, vestibulum sit am…	NULL	NULL

Query 3: The Customers Names and date of Birth from oldest to Youngest

```
50      -- The Customers Names and Date of Birth from oldest to youngest
51 •    SELECT * FROM Customers
52      Order by birth_date asc;
```

customer_id	first_name	last_name	birth_date	phone	address	city	state	points
7	Ilene	Dowson	1964-08-30	615-641-4759	50 Lillian Crossing	Nashville	TN	1672
10	Levy	Mynett	1969-10-13	404-246-3370	68 Lawn Avenue	Atlanta	GA	796
5	Clemmie	Betchley	1973-11-07	NULL	5 Spohn Circle	Arlington	TX	3675
4	Ambur	Roseburgh	1974-04-14	407-231-8017	30 Arapahoe Terrace	Orlando	FL	457
3	Freddi	Boagey	1985-02-07	719-724-7869	251 Springs Junction	Colorado Springs	CO	2967
1	Babara	MacCaffrey	1986-03-28	781-932-9754	0 Sage Terrace	Waltham	MA	2273
2	Ines	Brushfield	1986-04-13	804-427-9456	14187 Commercial Trail	Hampton	VA	947
6	Elka	Twiddell	1991-09-04	312-480-8498	7 Manley Drive	Chicago	IL	3073
9	Romola	Rumgay	1992-05-23	559-181-3744	3520 Ohio Trail	Visalia	CA	1486
8	Thacher	Naseby	1993-07-17	941-527-3977	538 Mosinee Center	Sarasota	FL	205

Query 4: The Customer ID, Order Date and Shipped date only (Excluding orders that have not been shipped)

```
55 •    SELECT customer_id, order_date, shipped_date
56      From Orders
57      Where shipped_date is NOT NULL;
```

customer_id	order_date	shipped_date
7	2018-08-02	2018-08-03
5	2017-08-25	2017-08-26
2	2018-09-22	2018-09-23
10	2017-07-05	2017-07-06
6	2018-04-22	2018-04-23

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Tableau Screenshot showing Customer names and Map Location

Customer Full Name / Date of Birth

First Name	Last Name	Year of Birth Date								
		1964	1969	1973	1974	1985	1986	1991	1992	1993
Ambur	Roseburgh				■					
Babara	MacCaffrey						■			
Clemmie	Betchley			■						
Elka	Twiddell							■		
Freddi	Boagey					■				
Ilene	Dowson	■								
Ines	Brushfield						■			
Levy	Mynett		■							
Romola	Rumgay								■	
Thacher	Naseby									■

Customer Home State / City

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