Deadline - 4 SQL Queries

Group - 5

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Relational Schema:

Address(Address_ID, Apt_Name, Street, city, state, Country, zip)

Phone_Number(phone_ID, num)

Email(email_ID, em)

Admin(Admin_ID,Name, Password)

Supplier(Supplier_ID, Name, Address_ID, email_ID, phone_ID, password)

Product(Product_ID, Name, Supplier_ID, Quantity, Price, Description)

Customer(Customer_ID, Name, Address_ID, Age, phoneID, email_ID, Password, Wallet_ID)

Wallet(Wallet_ID, Customer_ID, balance, upiID)

Bag(Bag_ID, Product_ID)

Delivery_Agent(Delivery_Agent_ID, Name, Address_ID, Availability, phone_ID, email_ID, Password)

Orders(Order_ID, Customer_ID, bag_ID, Status)

Product_Review(Product_Review_ID, Review, rating)

Delivery_Review(DR_ID, Rating, Review)

Cart(Customer_ID, Product_ID, Supplier_ID, quantity)

Order_Relationship(Order_ID, Product_ID, Customer_ID, Quantity)

Supplies(Product_ID, Supplier_ID)

Sale_Stats(Product_ID, Supplier_ID, Selling_Date, Quantity)

Delivered(Customer_ID, Delivery_Agent_ID, DR_ID)

Delivers(Customer_ID, Order_ID, Delivery_Agent_ID)

Done by Udbhav Singh

Queries

1. Shrutya's Queries:
   A. this query finds out the details of the orders that a particular person has placed

```
SELECT C.Customer_ID, C.Name, o.Delivery_date,
b.Product_ID
FROM Customer C
        JOIN orders o on C.Customer_ID = o.Customer_ID
        JOIN bag b on b.Bag_ID = o.bag_ID
ORDER BY Customer_ID;
```

B. display the top 5 delivery agents with respect to rating

```
SELECT distinct DA_avg.Name, DA_avg.average_rating
FROM (SELECT delivery_agent.Name,
avg(delivery_review.Rating) as average_rating
     FROM delivery_agent
               JOIN delivered ON
delivery_agent.Delivery_agent_ID =
delivered.Delivery_Agent_ID
               JOIN delivery_review ON delivered.DR_ID
= delivery_review.DR_ID
     GROUP BY delivery_agent.Name) as DA_avg

WHERE 2 >= (SELECT count(distinct d2.average_rating)
           FROM (SELECT delivery_agent.Name,
avg(delivery_review.Rating) as average_rating
                 FROM delivery_agent
                           JOIN delivered ON
delivery_agent.Delivery_agent_ID =
delivered.Delivery_Agent_ID
                           JOIN delivery_review ON
delivered.DR_ID = delivery_review.DR_ID
                 GROUP BY delivery_agent.Name) as d2
           WHERE DA_avg.average_rating <=
d2.average_rating)
order by DA_avg.average_rating desc;
```

C. this query finds all the suppliers who do not sell any products

```
SELECT supplier.Supplier_ID, supplier.Name
from supplier
WHERE NOT EXISTS(SELECT *
                FROM product
                where product.Supplier_ID =
supplier.Supplier_ID);
```

2. Udbhav's Queries

A.
```
INSERT INTO cart VALUES (12, 5, 3,1);
```

B. This query finds out the total revenue and total quantity sold per product for a supplier (sales statistics)

```
SELECT Product.Name, SUM(Order_relationship.quantity) AS
total_quantity_sold, SUM(Order_relationship.quantity *
Product.Price) AS total_revenue
FROM product
INNER JOIN Order_relationship ON Product.Product_ID =
Order_relationship.Product_ID
INNER JOIN Orders ON Order_relationship.Order_ID =
Orders.Order_ID
WHERE Product.Supplier_ID  = 1
GROUP BY Product.Name;
```

3. Naman Queries

A. This query is used to search through the product catalog for the name of the product(for eg, if we search for bats, it displays all the available bats)

```
Insert Into Bag Values(9,4);
Insert Into Bag Values(9,5);

SELECT Name
FROM Product
WHERE Name LIKE '%bat%'
GROUP BY Name;
```

B. Query to update the customer's address (uses UPDATE)

```
update Address
SET Apt_name= 'Saphire gold Apartments',
Street= 'Dalal Street',
City='New Delhi',
State='Delhi',
Country='India',
zip='110046'
WHERE Address_ID = (SELECT Address_ID FROM customer WHERE
Customer_ID = 2);
```

C. *Queries used while placing an order. Find out an available delivery agent*

```
select Delivery_agent_ID, Name
   from Delivery_Agent
   WHERE availability = TRUE
   ORDER BY Delivery_agent_ID ;
```

D. *To Find the quantity of Different products in the Bag while ordering*

```
Select Product_ID,count(Product_ID)
from Bag
Where Bag_ID=9
Group By Product_ID;
```

4. Yogesh's Queries

A. *This SQL query retrieves the order ID, customer name, and delivery agent name for all delivered orders by joining the Orders, Delivers, Customer, and Delivery_Agent tables based on their respective IDs.*

```
SELECT
   o.Order_ID,
   c.Name AS Customer_Name,
   da.Name AS Delivery_Agent_Name
FROM
   Orders o
INNER JOIN
   Delivers d ON o.Order_ID = d.Order_ID
INNER JOIN
   Customer c ON d.Customer_ID = c.Customer_ID
INNER JOIN
   Delivery_Agent da ON d.Delivery_Agent_ID =
da.Delivery_agent_ID
ORDER BY Order_ID;
```

B. *This query deletes a product from a customer's cart*

```
DELETE FROM cart WHERE Customer_ID = 4 AND Product_ID = 5
AND Supplier_ID = 8;
```