## **SQL** Queries

## Relational Schema:

Address(<u>Address ID</u>, Apt\_Name, Street, city, state, Country, zip)

Phone\_Number(phone\_ID, num)

Email(email\_ID, em)

Admin(<u>Admin ID</u>,Name, Password)

Supplier(Supplier ID, Name, Address\_ID, email\_ID, phone\_ID, password)

Product(<u>Product ID</u>, Name, Supplier\_ID, Quantity, Price, Description)

Customer(<u>Customer ID</u>, Name, Address\_ID, Age, phoneID, email\_ID, Password, Wallet\_ID)

Wallet(Wallet ID, Customer\_ID, balance, upiID)

Bag(Bag\_ID, Product\_ID)

Delivery\_Agent(<u>Delivery Agent ID</u>, Name, Address\_ID, Availability, phone\_ID, email\_ID, Password)

Orders(<u>Order ID</u>, Customer\_ID, bag\_ID, Status)

Product\_Review(<u>Product Review ID</u>, Review, rating)

Delivery\_Review(<u>DR\_ID</u>, Rating, Review)

Cart(<u>Customer ID</u>, <u>Product ID</u>, <u>Supplier ID</u>, quantity)

Order\_Relationship(<u>Order ID, Product ID, Customer ID, Quantity</u>)

Supplies(<u>Product ID</u>, <u>Supplier ID</u>)

Sale\_Stats(<u>Product ID</u>, <u>Supplier ID</u>, <u>Selling\_Date</u>, <u>Quantity</u>)

Delivered(<u>Customer ID</u>, <u>Delivery Agent ID</u>, <u>DR ID</u>)

Delivers(<u>Customer ID</u>, <u>Order ID</u>, <u>Delivery Agent ID</u>)

Done by Udbhav Singh

## Queries

1.

```
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);
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
```

2.

```
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.
  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.
  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;
```