Date:-12/8/25

Task-3

using claues, operators, and Function in Queries

System Name:- Online Food Ordering System

Aim:- To perform query processing on database for different retrieval results using DML and DRL operations with aggregate functions, date functions, string functions, set clauses and operators

```
CREATE TABLE Customer
(Cust_ID INT PRIMARY KEY,
Cust_Name VARCHAR(100),
Cust_Contact VARCHAR(10) UNIQUE,
Cust_Email VARCHAR(100) NOT NULL
Cust_Address VARCHAR(100)
);
CREATE TABLE Restaurant
(Item_ID INT PRIMARY KEY,
Item_Name VARCHAR(100),
Price INT CHECK (Price>0),
Category VARCHAR(50),
Rest_Id INT
FOREIGN KEY(Rest_ID) REFERENCES
Restaurant(Rest_ID)
```

Aggregate Functions

1) Query-1:- Find the total revenue generated by all orders

```
SELECT SUM(Order_Table) AS Total_Revenue FROM
OrderTable;
```

Total_Revenue
2000

Query-2:- Find the Total number of menu items for each restaurant

```
SELECT Rest_ID, COUNT(Item_ID) AS Total_Items
FROM Menu_Item
GROUP BY Rest_ID;
```

Item_ID	Total_Items
1	3
2	
3	

Query-3:- Find the average price of all menu items

```
SELECT AVG(Price) AS
Average_Price
FROM Menu_Item;
```

Average_Price
470

```
CREATE TABLE Menu_item
(item_ID INT PRIMARY KEY,
 item_Name VARCHAR(100),
 Price INT CHECK (Price>0),
 Category VARCHAR (50),
  Rest_ID INT,
FOREIGN KEY (Rest_ID) REFERENCES
 Restaurant (Rest_ID),
);

CREATE TABLE OrderTable
(Order_ID INT PRIMARY KEY,
  Cust_ID INT
  Order_Date
  Order_Total INT,
  Payment_Status VARCHAR (50)
FOREIGN KEY(Cust_ID) REFERENCES
OrderTable (Order_ID)
```

1. INSERT Values into Customer Table

```
INSERT INTO Customers VALUES (1,'Alice',
'9876543210','alice@example.com','Street
123');
```

2) Date Functions

Query-1':- Retrive orders placed in the last 7 days

```
SELECT *
FROM OrdersTable
WHERE Order_Date >= SYSDATE - 7;
```

order_ID	Cust_ID	Order_Date	Order_Total	Payment_Status
1	1	2025-01-20	800	Paid
2	2	2025-01-21	500	unpaid
3	3	2025-01-22	700	Paid

Query-2':- Find the orders and their delivery time if delivered today

```
SELECT OrdersTable.Order_ID, Delivery.Delivery_Date
FROM OrderTable
INNER JOIN Delivery
ON OrderTable.order_ID = Delivery.Order_ID
```

output:-

Expected output (if there are no delivery for Today, the result will be empty)

3. String Functions

Query-1':- Find all customers whose names contain the letter 'a'

```
SELECT *
FROM Customer
WHERE LOWER(Cust_Name) LIKE '%a%';
```

Cust_ID	Cust_Name	Cust_contact	Email	Cust_Address
1	Alice	9988776655	alice@gmail.com	street 123
2	olive	1234567890	olive@gmail.com	street 456

INSERT INTO Customer VALUES (2, 'Bob', '9123456789', 'bob@gmail.com', 'Street56');

INSERT INTO Customer VALUES (3, 'Charlie', '9998877 6655', 'charlie@example.com', 'Street 789');

2. Insert values into Restaurant Table

INSERT INTO Restaurant VALUES (1, 'Food Paradise', 'Downtown', '9988771230');

INSERT INTO Restaurant VALUES (2, 'Tasty Treats', 'Uptown', '8876543210');

INSERT INTO Restaurant VALUES (3, 'Global Eats', 'City Center', '7766552211');

3. Insert values into Menu_item Table

INSERT INTO Menu_item VALUES (1, 'Pizza', 500, 'Italian', 1);

INSERT INTO Menu_item VALUES (2, 'Burger', 300, 'Fast Food', 1);

INSERT INTO Menu_item VALUES (3, 'Sushi', 800, 'Japanese', 2);

INSERT INTO Menu_item VALUES (4, 'Pasta', 400, 'Italian', 1);

Query-2:- Display all menu item names in uppercase.

```
SELECT UPPER(Item_Name) AS Uppercase_Item_Name FROM Menu_Item;
```

Uppercase_Item_Name
PIZZA
BURGER
SUSHI
PASTA
NOODLES

4. Set clauses

Query-1:- Update the payment of all unpaid orders to 'paid'.

```
UPDATE OrderTable
SET Payment_Status = 'paid'
WHERE Payment_Status = 'unpaid';
```

order_ID	cust_ID	order_Date	order_Total	payment_Status
1	1	2025-01-20	800	paid
2	2	2025-01-24	500	paid
3	3	2025-01-22	700	paid

4. INSERT VALUES into orderTable Table

INSERT INTO orderTable VALUES
(1, 1, '2025-01-20', 800, 'paid');

INSERT INTO OrderTable VALUES
(2, 2, '2025-01-21', 500, 'unpaid');

INSERT INTO orderTable VALUES
(3, 3, '2025-01-22', 700, 'paid');

5. Insert values into Delivary Table

Insert INTO Delivery VALUES (1, 1, 'Delivered',
'2025-01-20 14:30:00');

First
INSERT into OrderTable

INSERT INTO orderTable VALUES
(2, 2, '2025-01-25', 500);

then
INSERT INTO Delivery VALUES (2, 2, 'Deliv
'2025-01-22 16:00:00');

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EX NO.	
PERFORMANCE (5)	
RESULT AND ANALYSIS (5)	
VIVA VOCE (5)	
RECORD (5)	
TOTAL (20)	
SIGN WITH DATE	

Query-2:- Retrives menu items ~~that belong to category~~ 'Italian' or have a price less than 500

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EX NO.	3
PERFORMANCE (5)	5
RESULT AND ANALYSIS (3)	3
VIVA VOCE (3)	2
RECORD (4)	2
TOTAL (15)	
SIGN WITH DATE	

```
SELECT *
FROM Menu_Item
WHERE Category = 'Italian' OR Price < 500;
```

Item_ID	Item_Name	Price	Category	Rest_ID
1	pizza	450	Italian	1
2	Burger	270	Fast Food	1
4	Pasta	360	Italian	1