

Zeal College of Engineering and Research

Subject: DBMSL

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Class: TE

Div: B

Batch: B1

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Group A: Practical No: 3

Program Statement:

SQL Queries - all types of Join, Sub-Query and View: a. Write at least 10 SQL queries for suitable database application using SQL DML statements. b. design the queries which demonstrate the use of concepts like all types of Join, Sub-Query

Code:

```
mysql> CREATE DATABASE SALE;  
Query OK, 1 row affected (0.01 sec)
```

```
mysql> USE SALE;  
Database changed
```

```
mysql> CREATE TABLE Customers (CustomerID INT PRIMARY KEY, CustomerName  
VARCHAR(255), Country VARCHAR(255));
```

```
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> CREATE TABLE Orders (OrderID INT PRIMARY KEY, OrderDate DATE,  
CustomerID INT, Amount DECIMAL(10, 2), FOREIGN KEY (CustomerID)  
REFERENCES Customers(CustomerID));
```

```
Query OK, 0 rows affected (0.08 sec)
```

```
mysql> INSERT INTO Customers (CustomerID, CustomerName, Country)  
-> VALUES  
-> (1, "Bhavik", "India"),  
-> (2, "Tanisha", "Singapore"),  
-> (3, "Delisha", "China"),  
-> (4, "Jenil", "Australia");
```

```
Query OK, 4 rows affected (0.00 sec)
```

Records: 4 Duplicates: 0 Warnings: 0

```
mysql> INSERT INTO Orders (OrderID, OrderDate, CustomerID, Amount)
-> VALUES
-> (101, '2023-09-12', 1, 250.00),
-> (102, '2023-09-10', 2, 450.00),
-> (103, '2023-09-15', 1, 150.00),
-> (104, '2023-09-18', 4, 300.00),
-> (105, '2023-09-20', 3, 200.00);
```

Query OK, 5 rows affected (0.02 sec)
Records: 5 Duplicates: 0 Warnings: 0

```
mysql> SELECT Customers.CustomerID, Customers.CustomerName, Orders.OrderID,
Orders.Amount FROM Customers INNER JOIN Orders ON Customers.CustomerID =
Orders.CustomerID;
```

CustomerID	CustomerName	OrderID	Amount
1	Bhavik	101	250.00
1	Bhavik	103	150.00
2	Tanisha	102	450.00
3	Delisha	105	200.00
4	Jenil	104	300.00

5 rows in set (0.02 sec)

```
mysql> SELECT Customers.CustomerID, Customers.CustomerName, Orders.OrderID,
Orders.Amount FROM Customers LEFT JOIN Orders ON Customers.CustomerID =
Orders.CustomerID;
```

CustomerID	CustomerName	OrderID	Amount
1	Bhavik	101	250.00
1	Bhavik	103	150.00
2	Tanisha	102	450.00
3	Delisha	105	200.00
4	Jenil	104	300.00

5 rows in set (0.01 sec)

```
mysql> SELECT Customers.CustomerID, Customers.CustomerName, Orders.OrderID,
Orders.Amount FROM Customers RIGHT JOIN Orders ON Customers.CustomerID =
Orders.CustomerID;
```

```

+-----+-----+-----+-----+
| CustomerID | CustomerName | OrderID | Amount |
+-----+-----+-----+-----+
|      1 | Bhavik      |    101 | 250.00 |
|      2 | Tanisha     |    102 | 450.00 |
|      1 | Bhavik      |    103 | 150.00 |
|      4 | Jenil       |    104 | 300.00 |
|      3 | Delisha     |    105 | 200.00 |
+-----+-----+-----+-----+

```

5 rows in set (0.01 sec)

```

mysql> SELECT Customers.CustomerID, Customers.CustomerName, Orders.OrderID,
Orders.Amount FROM Customers LEFT JOIN Orders ON Customers.CustomerID =
Orders.CustomerID UNION SELECT Customers.CustomerID, Customers.CustomerName,
Orders.OrderID, Orders.Amount FROM Customers RIGHT JOIN Orders ON
Customers.CustomerID = Orders.CustomerID;

```

```

+-----+-----+-----+-----+
| CustomerID | CustomerName | OrderID | Amount |
+-----+-----+-----+-----+
|      1 | Bhavik      |    101 | 250.00 |
|      1 | Bhavik      |    103 | 150.00 |
|      2 | Tanisha     |    102 | 450.00 |
|      3 | Delisha     |    105 | 200.00 |
|      4 | Jenil       |    104 | 300.00 |
+-----+-----+-----+-----+

```

5 rows in set (0.02 sec)