Delhi Technological University

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Department Of Applied Mathematics

MC-302: DATABASE MANAGEMENT SYSTEMS
Lab File

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PRACTICAL 3

AIM:

1. Use aggregate functions like max, min, count, sum etc.
2. Sort data in ascending and descending order.
3. Use GROUP BY and HAVING clause to fetch data from a group.
4. Practice first six exercises on the W3S schools website.

CODE:

Insert the missing statement to get all the columns from the Customers table.

```
SELECT * FROM Customers;
```

Write a statement that will select the City column from the Customers table.

```
SELECT City FROM Customers;
```

Select all the different values from the Country column in the Customers table.

```
SELECT DISTINCT Country FROM Customers;
```

Select all records where the City column has the value "Berlin".

```
SELECT * FROM Customers WHERE City = "Berlin";
```

Use the NOT keyword to select all records where City is NOT "Berlin".

```
SELECT * FROM Customers WHERE NOT City = "Berlin";
```

Select all records where the CustomerID column has the value 32.

```
SELECT * FROM Customers WHERE CustomerID = 32;
```

Select all records where the City column has the value 'Berlin' and the PostalCode column has the value 12209.

```
SELECT * FROM Customers WHERE City = "Berlin" AND PostalCode = 12209;
```

Select all records where the City column has the value 'Berlin' or 'London'.

```
SELECT * FROM Customers WHERE City = "Berlin" OR City = "London";
```

Select all records from the Customers table, sort the result alphabetically by the column City.

```
SELECT * FROM Customers ORDER BY City;
```

Select all records from the Customers table, sort the result reversed alphabetically by the column City.

```
SELECT * FROM Customers ORDER BY City DESC
```

Select all records from the Customers table, sort the result alphabetically, first by the column Country, then, by the column City.

```
SELECT * FROM Customers ORDER BY Country, City;
```

Insert a new record in the Customers table.

```
INSERT INTO Customers (
        CustomerName,
        Address,
        City,
        PostalCode,
        Country)
        VALUES (
        'Hekkan Burger',
```

'Gateveien 15',
'Sandes',
'4306',
'Norway');

Select all records from the Customers where the PostalCode column is empty.

```
SELECT * FROM Customers WHERE PostalCode IS NULL;
```

Select all records from the Customers where the PostalCode column is NOT empty.

```
SELECT * FROM Customers WHERE PostalCode IS NOT NULL;
```

Update the City column of all records in the Customers table.

```
UPDATE Customers SET City = 'Oslo';
```

Set the value of the City columns to 'Oslo', but only the ones where the Country column has the value "Norway".

```
UPDATE Customers SET City = 'Oslo' WHERE Country = 'Norway';
```

Update the City value and the Country value.

```
UPDATE Customers SET City = 'Oslo', Country = 'Norway' WHERE CustomerID = 32;
```

Delete all the records from the Customers table where the Country value is 'Norway'.

```
DELETE FROM Customers WHERE Country = 'Norway';
```

Delete all the records from the Customers table.

```
DELETE FROM Customers;
```