Assignment 1

Task 1: Database Design

Create database named “TechShop”

```
mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| mysql              |
| performance_schema |
| sakila             |
| sys                |
| world              |
+--------------------+
6 rows in set (0.00 sec)

mysql> create database TechShop;
Query OK, 1 row affected (0.01 sec)

mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| mysql              |
| performance_schema |
| sakila             |
| sys                |
| techshop           |
| world              |
+--------------------+
7 rows in set (0.00 sec)
```

Use database:

```
mysql> use techshop;
Database changed
```

Create tables:

- Customers
- Products
- Orders
- OrderDetails
- Inventory

```
mysql> create table Customers(CustomerId int primary key,FirstName varchar(64),LastName varchar(64),Email varchar(64),Phone int,Address varchar(64))
;
Query OK, 0 rows affected (0.03 sec)
      ^C
mysql> desc Customers;
+------------+-------------+------+-----+---------+-------+
| Field      | Type        | Null | Key | Default | Extra |
+------------+-------------+------+-----+---------+-------+
| CustomerId | int         | NO   | PRI | NULL    |       |
| FirstName  | varchar(64) | YES  |     | NULL    |       |
| LastName   | varchar(64) | YES  |     | NULL    |       |
| Email      | varchar(64) | YES  |     | NULL    |       |
| Phone      | int         | YES  |     | NULL    |       |
| Address    | varchar(64) | YES  |     | NULL    |       |
+------------+-------------+------+-----+---------+-------+
6 rows in set (0.00 sec)
```

```
mysql> CREATE TABLE Products (
    ->     ProductId INT PRIMARY KEY,
    ->     ProductName VARCHAR(255),
    ->     Description TEXT,
    ->     Price DECIMAL(10, 2)
    -> );
Query OK, 0 rows affected (0.03 sec)

mysql> desc Products;
+-------------+---------------+------+-----+---------+-------+
| Field       | Type          | Null | Key | Default | Extra |
+-------------+---------------+------+-----+---------+-------+
| ProductId   | int           | NO   | PRI | NULL    |       |
| ProductName | varchar(255)  | YES  |     | NULL    |       |
| Description | text          | YES  |     | NULL    |       |
| Price       | decimal(10,2) | YES  |     | NULL    |       |
+-------------+---------------+------+-----+---------+-------+
4 rows in set (0.00 sec)
```

```
mysql> CREATE TABLE Orders (
    ->     OrderId INT PRIMARY KEY,
    ->     CustomerId INT,
    ->     OrderDate DATE,
    ->     TotalAmount DECIMAL(10, 2),
    ->     FOREIGN KEY (CustomerId) REFERENCES Customers(CustomerId)
    -> );
Query OK, 0 rows affected (0.05 sec)

mysql> desc Orders;
+-------------+---------------+------+-----+---------+-------+
| Field       | Type          | Null | Key | Default | Extra |
+-------------+---------------+------+-----+---------+-------+
| OrderId     | int           | NO   | PRI | NULL    |       |
| CustomerId  | int           | YES  | MUL | NULL    |       |
| OrderDate   | date          | YES  |     | NULL    |       |
| TotalAmount | decimal(10,2) | YES  |     | NULL    |       |
+-------------+---------------+------+-----+---------+-------+
4 rows in set (0.00 sec)
```

```
mysql> CREATE TABLE OrderDetails (
    ->     OrderDetailId INT PRIMARY KEY,
    ->     OrderId INT,
    ->     ProductId INT,
    ->     Quantity INT,
    ->     FOREIGN KEY (OrderId) REFERENCES Orders(OrderId),
    ->     FOREIGN KEY (ProductId) REFERENCES Products(ProductId)
    -> );
Query OK, 0 rows affected (0.06 sec)

mysql> desc OrderDetails;
+---------------+------+------+-----+---------+-------+
| Field         | Type | Null | Key | Default | Extra |
+---------------+------+------+-----+---------+-------+
| OrderDetailId | int  | NO   | PRI | NULL    |       |
| OrderId       | int  | YES  | MUL | NULL    |       |
| ProductId     | int  | YES  | MUL | NULL    |       |
| Quantity      | int  | YES  |     | NULL    |       |
+---------------+------+------+-----+---------+-------+
4 rows in set (0.00 sec)
```

```
mysql> CREATE TABLE Inventory (
    ->     InventoryId INT PRIMARY KEY,
    ->     ProductId INT,
    ->     QuantityInStock INT,
    ->     LastStockUpdate TIMESTAMP,
    ->     FOREIGN KEY (ProductId) REFERENCES Products(ProductId)
    -> );
Query OK, 0 rows affected (0.05 sec)

mysql> desc Inventory;
+-----------------+-----------+------+-----+---------+-------+
| Field           | Type      | Null | Key | Default | Extra |
+-----------------+-----------+------+-----+---------+-------+
| InventoryId     | int       | NO   | PRI | NULL    |       |
| ProductId       | int       | YES  | MUL | NULL    |       |
| QuantityInStock | int       | YES  |     | NULL    |       |
| LastStockUpdate | timestamp | YES  |     | NULL    |       |
+-----------------+-----------+------+-----+---------+-------+
4 rows in set (0.00 sec)
```

```
mysql> show tables;
+--------------------+
| Tables_in_techshop |
+--------------------+
| customers          |
| inventory          |
| orderdetails       |
| orders             |
| products           |
+--------------------+
5 rows in set (0.01 sec)
```

Insert at least 10 values in each of the table

```
mysql> insert into Customers values (1,"Vedant","Joshi","vedant@gmail.com",12345,"Mumbai"),
    -> (2,"Vinay","Natkar","vinay@gmil.com",23432,"Pune"),(3,"Sarvesh","Deshmukh","sarvesh@gmail.com",98734,"Delhi"),
    -> (4,"Kaustubh","Kulkarni","kaustubh@gmail.com",76349,"Chennai"),(5,"Vikrant","Pachbhai","vikrant@gmail.com",34870,"Nagpur"),
    -> (6,"Ram","Shingne","ram@gmail.com",64982,"Hydrabad"),(7,"Abhishek","Zune","abhishek@gmail.com",85478,"Akola")
    -> ,(8,"Rahul","Gayakwad","rahul@gmail.com",92847,"Latur"),(9,"Rohit","Sharma","rohit@gmail.com",21290,"Nashik"),
    -> (10,"Tilak","Verma","tilak@gmail.com",55467,"Jaypur");
Query OK, 10 rows affected (0.01 sec)
Records: 10  Duplicates: 0  Warnings: 0

mysql> select * from Customers;
+------------+-----------+----------+-------------------+-------+----------+
| CustomerId | FirstName | LastName | Email             | Phone | Address  |
+------------+-----------+----------+-------------------+-------+----------+
|          1 | Vedant    | Joshi    | vedant@gmail.com  | 12345 | Mumbai   |
|          2 | Vinay     | Natkar   | vinay@gmil.com    | 23432 | Pune     |
|          3 | Sarvesh   | Deshmukh | sarvesh@gmail.com | 98734 | Delhi    |
|          4 | Kaustubh  | Kulkarni | kaustubh@gmail.com| 76349 | Chennai  |
|          5 | Vikrant   | Pachbhai | vikrant@gmail.com | 34870 | Nagpur   |
|          6 | Ram       | Shingne  | ram@gmail.com     | 64982 | Hydrabad |
|          7 | Abhishek  | Zune     | abhishek@gmail.com| 85478 | Akola    |
|          8 | Rahul     | Gayakwad | rahul@gmail.com   | 92847 | Latur    |
|          9 | Rohit     | Sharma   | rohit@gmail.com   | 21290 | Nashik   |
|         10 | Tilak     | Verma    | tilak@gmail.com   | 55467 | Jaypur   |
+------------+-----------+----------+-------------------+-------+----------+
10 rows in set (0.00 sec)
```

```
mysql> INSERT INTO Products (ProductId, ProductName, Description, Price)
    -> VALUES
    ->   (101, 'Laptop', 'High-performance laptop', 50000),(102, 'Smartphone', 'Latest smartphone model', 30000),
    -> (103, 'Tablet', '10-inch tablet with HD display', 15000),(104, 'Headphones', 'Noise-canceling over-ear headphones', 5000),
    -> (105, 'Digital Camera', '20MP digital camera with zoom lens', 20000),(106, 'Fitness Tracker', 'Water-resistant fitness tracker', 2000),
    -> (107, 'Smart TV', '55-inch 4K Smart TV', 23000),(108, 'Gaming Console', 'Next-gen gaming console', 27000),
    -> (109, 'Wireless Speaker', 'Bluetooth wireless speaker', 7000),(110, 'Coffee Maker', 'Programmable coffee maker', 9000);
Query OK, 10 rows affected (0.01 sec)
Records: 10  Duplicates: 0  Warnings: 0

mysql> select * from Products;
+-----------+-----------------+-----------------------------------+----------+
| ProductId | ProductName     | Description                       | Price    |
+-----------+-----------------+-----------------------------------+----------+
|       101 | Laptop          | High-performance laptop           | 50000.00 |
|       102 | Smartphone      | Latest smartphone model           | 30000.00 |
|       103 | Tablet          | 10-inch tablet with HD display    | 15000.00 |
|       104 | Headphones      | Noise-canceling over-ear headphones |  5000.00 |
|       105 | Digital Camera  | 20MP digital camera with zoom lens | 20000.00 |
|       106 | Fitness Tracker | Water-resistant fitness tracker   |  2000.00 |
|       107 | Smart TV        | 55-inch 4K Smart TV               | 23000.00 |
|       108 | Gaming Console  | Next-gen gaming console           | 27000.00 |
|       109 | Wireless Speaker| Bluetooth wireless speaker        |  7000.00 |
|       110 | Coffee Maker    | Programmable coffee maker         |  9000.00 |
+-----------+-----------------+-----------------------------------+----------+
10 rows in set (0.00 sec)
```

```
mysql> INSERT INTO Orders (OrderId, CustomerId, OrderDate, TotalAmount, Status)
    -> VALUES
    -> (201,1,'2023-01-15',25000,'Pending'),(202,2,'2023-02-20',15000,'Shipped'),(203,3,'2023-03-10',10000,'Delivered'),
    -> (204,4,'2023-04-05',20000,'Pending'),(205,5,'2023-05-15',30000,'Shipped'),(206,1,'2023-06-01',22000,'Delivered'),
    -> (207,6,'2023-07-10',12500,'Pending'),(208,7,'2023-08-18',8000,'Shipped'),(209,8,'2023-09-25',35000,'Delivered'),
    -> (210,9,'2023-10-02',17000,'Pending');
Query OK, 10 rows affected (0.01 sec)
Records: 10  Duplicates: 0  Warnings: 0

mysql> select * from Orders;
+---------+------------+------------+-------------+-----------+
| OrderId | CustomerId | OrderDate  | TotalAmount | Status    |
+---------+------------+------------+-------------+-----------+
|     201 |          1 | 2023-01-15 |    25000.00 | Pending   |
|     202 |          2 | 2023-02-20 |    15000.00 | Shipped   |
|     203 |          3 | 2023-03-10 |    10000.00 | Delivered |
|     204 |          4 | 2023-04-05 |    20000.00 | Pending   |
|     205 |          5 | 2023-05-15 |    30000.00 | Shipped   |
|     206 |          1 | 2023-06-01 |    22000.00 | Delivered |
|     207 |          6 | 2023-07-10 |    12500.00 | Pending   |
|     208 |          7 | 2023-08-18 |     8000.00 | Shipped   |
|     209 |          8 | 2023-09-25 |    35000.00 | Delivered |
|     210 |          9 | 2023-10-02 |    17000.00 | Pending   |
+---------+------------+------------+-------------+-----------+
10 rows in set (0.00 sec)
```

```
mysql> INSERT INTO OrderDetails (OrderDetailId, OrderId, ProductId, Quantity)
    -> VALUES
    -> (301,201,101,2),(302,201,102,1),(303,202,103,1),(304,203,104,3),(305,203,105,1),
    -> (306,204,106,2),(307,205,107,1),(308,205,108,1),(309,206,109,2),(310,207,110,1);
Query OK, 10 rows affected (0.07 sec)
Records: 10  Duplicates: 0  Warnings: 0

mysql> select * from OrderDetails;
+---------------+---------+-----------+----------+
| OrderDetailId | OrderId | ProductId | Quantity |
+---------------+---------+-----------+----------+
|           301 |     201 |       101 |        2 |
|           302 |     201 |       102 |        1 |
|           303 |     202 |       103 |        1 |
|           304 |     203 |       104 |        3 |
|           305 |     203 |       105 |        1 |
|           306 |     204 |       106 |        2 |
|           307 |     205 |       107 |        1 |
|           308 |     205 |       108 |        1 |
|           309 |     206 |       109 |        2 |
|           310 |     207 |       110 |        1 |
+---------------+---------+-----------+----------+
10 rows in set (0.00 sec)
```

```
mysql> INSERT INTO Inventory (InventoryId, ProductId, QuantityInStock, LastStockUpdate)
    -> VALUES
    -> (401,101,50,'2023-01-01 10:00:00'),(402,102,100,'2023-02-15 12:30:00'),
    -> (403,103,25,'2023-03-10 15:45:00'),(404,104,30,'2023-04-05 08:20:00'),
    -> (405,105,40,'2023-05-20 17:30:00'),(406,106,15,'2023-06-12 09:15:00'),
    -> (407,107,60,'2023-07-08 14:00:00'),(408,108,20,'2023-08-25 11:10:00'),
    -> (409,109,35,'2023-09-18 18:00:00'),(410,110,50,'2023-10-03 22:45:00');
Query OK, 10 rows affected (0.08 sec)
Records: 10  Duplicates: 0  Warnings: 0

mysql> select * from Inventory:
    -> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use
 near ':' at line 1
mysql> select * from Inventory;
+-------------+-----------+-----------------+---------------------+
| InventoryId | ProductId | QuantityInStock | LastStockUpdate     |
+-------------+-----------+-----------------+---------------------+
|         401 |       101 |              50 | 2023-01-01 10:00:00 |
|         402 |       102 |             100 | 2023-02-15 12:30:00 |
|         403 |       103 |              25 | 2023-03-10 15:45:00 |
|         404 |       104 |              30 | 2023-04-05 08:20:00 |
|         405 |       105 |              40 | 2023-05-20 17:30:00 |
|         406 |       106 |              15 | 2023-06-12 09:15:00 |
|         407 |       107 |              60 | 2023-07-08 14:00:00 |
|         408 |       108 |              20 | 2023-08-25 11:10:00 |
|         409 |       109 |              35 | 2023-09-18 18:00:00 |
|         410 |       110 |              50 | 2023-10-03 22:45:00 |
+-------------+-----------+-----------------+---------------------+
10 rows in set (0.00 sec)
```

Task 2: Select, Where, Between, AND, LIKE

Write an SQL query to retrieve names and emails of all customers.

```
mysql> select FirstName, LastName, Email from Customers;
+-----------+----------+--------------------+
| FirstName | LastName | Email              |
+-----------+----------+--------------------+
| Vedant    | Joshi    | vedant@gmail.com   |
| Vinay     | Natkar   | vinay@gmil.com     |
| Sarvesh   | Deshmukh | sarvesh@gmail.com  |
| Kaustubh  | Kulkarni | kaustubh@gmail.com |
| Vikrant   | Pachbhai | vikrant@gmail.com  |
| Ram       | Shingne  | ram@gmail.com      |
| Abhishek  | Zune     | abhishek@gmail.com |
| Rahul     | Gayakwad | rahul@gmail.com    |
| Rohit     | Sharma   | rohit@gmail.com    |
| Tilak     | Verma    | tilak@gmail.com    |
+-----------+----------+--------------------+
10 rows in set (0.00 sec)
```

Write SQL query to list all orders with their order dates and corresponding customer names.

```
mysql> select
    -> Orders.OrderId,
    ->     Orders.OrderDate,
    ->     Customers.FirstName,
    ->     Customers.LastName
    -> from
    ->     Orders
    -> join
    ->     Customers ON Orders.CustomerId = Customers.CustomerId;
+---------+------------+-----------+----------+
| OrderId | OrderDate  | FirstName | LastName |
+---------+------------+-----------+----------+
|     201 | 2023-01-15 | Vedant    | Joshi    |
|     202 | 2023-02-20 | Vinay     | Natkar   |
|     203 | 2023-03-10 | Sarvesh   | Deshmukh |
|     204 | 2023-04-05 | Kaustubh  | Kulkarni |
|     205 | 2023-05-15 | Vikrant   | Pachbhai |
|     206 | 2023-06-01 | Vedant    | Joshi    |
|     207 | 2023-07-10 | Ram       | Shingne  |
|     208 | 2023-08-18 | Abhishek  | Zune     |
|     209 | 2023-09-25 | Rahul     | Gayakwad |
|     210 | 2023-10-02 | Rohit     | Sharma   |
+---------+------------+-----------+----------+
10 rows in set (0.00 sec)
```

Write SQL query to insert new customer record into Customers table. Include customer information such as name, email and address.

```
mysql> insert into Customers (CustomerId,FirstName, LastName, Email, Phone, Address)
    -> values(11,'New','Customer','new.customer@gmail.com',98765,'Kanpur');
Query OK, 1 row affected (0.01 sec)

mysql> select * from Customers;
+------------+-----------+----------+-----------------------+-------+----------+
| CustomerId | FirstName | LastName | Email                 | Phone | Address  |
+------------+-----------+----------+-----------------------+-------+----------+
|          1 | Vedant    | Joshi    | vedant@gmail.com      | 12345 | Mumbai   |
|          2 | Vinay     | Natkar   | vinay@gmil.com        | 23432 | Pune     |
|          3 | Sarvesh   | Deshmukh | sarvesh@gmail.com     | 98734 | Delhi    |
|          4 | Kaustubh  | Kulkarni | kaustubh@gmail.com    | 76349 | Chennai  |
|          5 | Vikrant   | Pachbhai | vikrant@gmail.com     | 34870 | Nagpur   |
|          6 | Ram       | Shingne  | ram@gmail.com         | 64982 | Hydrabad |
|          7 | Abhishek  | Zune     | abhishek@gmail.com    | 85478 | Akola    |
|          8 | Rahul     | Gayakwad | rahul@gmail.com       | 92847 | Latur    |
|          9 | Rohit     | Sharma   | rohit@gmail.com       | 21290 | Nashik   |
|         10 | Tilak     | Verma    | tilak@gmail.com       | 55467 | Jaypur   |
|         11 | New       | Customer | new.customer@gmail.com | 98765 | Kanpur   |
+------------+-----------+----------+-----------------------+-------+----------+
11 rows in set (0.00 sec)
```

Write SQL query to update prices of all products in Products table by increasing them by 10%.

```
mysql> update Products
    -> set Price=Price*1.10 ;
Query OK, 10 rows affected (0.04 sec)
Rows matched: 10  Changed: 10  Warnings: 0

mysql> select * from Products;
+-----------+-----------------+-------------------------------------+----------+
| ProductId | ProductName     | Description                         | Price    |
+-----------+-----------------+-------------------------------------+----------+
|       101 | Laptop          | High-performance laptop             | 55000.00 |
|       102 | Smartphone      | Latest smartphone model             | 33000.00 |
|       103 | Tablet          | 10-inch tablet with HD display      | 16500.00 |
|       104 | Headphones      | Noise-canceling over-ear headphones |  5500.00 |
|       105 | Digital Camera  | 20MP digital camera with zoom lens  | 22000.00 |
|       106 | Fitness Tracker | Water-resistant fitness tracker     |  2200.00 |
|       107 | Smart TV        | 55-inch 4K Smart TV                 | 25300.00 |
|       108 | Gaming Console  | Next-gen gaming console             | 29700.00 |
|       109 | Wireless Speaker | Bluetooth wireless speaker         |  7700.00 |
|       110 | Coffee Maker    | Programmable coffee maker           |  9900.00 |
+-----------+-----------------+-------------------------------------+----------+
10 rows in set (0.00 sec)
```

Write SQL query to delete a specific order and their associated order details for a specific customer from the orders and orderdetails tables.

```
mysql> DELETE FROM OrderDetails
    -> WHERE OrderId IN (SELECT OrderId FROM Orders WHERE CustomerId =8);
Query OK, 0 rows affected (0.00 sec)

mysql> DELETE FROM Orders
    -> WHERE CustomerId=8;
Query OK, 2 rows affected (0.01 sec)

mysql> select * from Orders;
+---------+------------+------------+-------------+-----------+
| OrderId | CustomerId | OrderDate  | TotalAmount | Status    |
+---------+------------+------------+-------------+-----------+
|     201 |          1 | 2023-01-15 |   143000.00 | Pending   |
|     202 |          2 | 2023-02-20 |    16500.00 | Shipped   |
|     203 |          3 | 2023-03-10 |    38500.00 | Delivered |
|     204 |          4 | 2023-04-05 |     4400.00 | Pending   |
|     205 |          5 | 2023-05-15 |    55000.00 | Shipped   |
|     206 |          1 | 2023-06-01 |    15400.00 | Delivered |
|     207 |          6 | 2023-07-10 |     9900.00 | Pending   |
|     208 |          7 | 2023-08-18 |     8000.00 | Shipped   |
|     210 |          9 | 2023-10-02 |    17000.00 | Pending   |
+---------+------------+------------+-------------+-----------+
9 rows in set (0.00 sec)
```

Write SQL query to insert a new order into Orders table. Include customerid,orderdate,and any other necessary information

```
mysql> insert into Orders(OrderId,CustomerId,OrderDate,TotalAmount,Status)
    -> values(211,8,'2023-12-09',12000,'Pending');
Query OK, 1 row affected (0.08 sec)

mysql> select * from Orders;
+---------+------------+------------+-------------+-----------+
| OrderId | CustomerId | OrderDate  | TotalAmount | Status    |
+---------+------------+------------+-------------+-----------+
|     201 |          1 | 2023-01-15 |    25000.00 | Pending   |
|     202 |          2 | 2023-02-20 |    15000.00 | Shipped   |
|     203 |          3 | 2023-03-10 |    10000.00 | Delivered |
|     204 |          4 | 2023-04-05 |    20000.00 | Pending   |
|     205 |          5 | 2023-05-15 |    30000.00 | Shipped   |
|     206 |          1 | 2023-06-01 |    22000.00 | Delivered |
|     207 |          6 | 2023-07-10 |    12500.00 | Pending   |
|     208 |          7 | 2023-08-18 |     8000.00 | Shipped   |
|     209 |          8 | 2023-09-25 |    35000.00 | Delivered |
|     210 |          9 | 2023-10-02 |    17000.00 | Pending   |
|     211 |          8 | 2023-12-09 |    12000.00 | Pending   |
+---------+------------+------------+-------------+-----------+
11 rows in set (0.00 sec)
```

Write SQL query to update contact information(e.g. email and address) of a specific customer in the customers table.

```
mysql> UPDATE Customers
    -> SET Email='newemail@gmail.com',
    ->     Address='London'
    -> WHERE CustomerId=7;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from Customers;
+------------+-----------+----------+-----------------------+-------+----------+----------------+
| CustomerId | FirstName | LastName | Email                 | Phone | Address  | NumberOfOrders |
+------------+-----------+----------+-----------------------+-------+----------+----------------+
|          1 | Vedant    | Joshi    | vedant@gmail.com      | 12345 | Mumbai   |              2 |
|          2 | Vinay     | Natkar   | vinay@gmil.com        | 23432 | Pune     |              1 |
|          3 | Sarvesh   | Deshmukh | sarvesh@gmail.com     | 98734 | Delhi    |              1 |
|          4 | Kaustubh  | Kulkarni | kaustubh@gmail.com    | 76349 | Chennai  |              1 |
|          5 | Vikrant   | Pachbhai | vikrant@gmail.com     | 34870 | Nagpur   |              1 |
|          6 | Ram       | Shingne  | ram@gmail.com         | 64982 | Hydrabad |              1 |
|          7 | Abhishek  | Zune     | newemail@gmail.com    | 85478 | London   |              1 |
|          8 | Rahul     | Gayakwad | rahul@gmail.com       | 92847 | Latur    |              2 |
|          9 | Rohit     | Sharma   | rohit@gmail.com       | 21290 | Nashik   |              1 |
|         10 | Tilak     | Verma    | tilak@gmail.com       | 55467 | Jaypur   |              0 |
|         11 | New       | Customer | new.customer@gmail.com | 98765 | Kanpur   |              0 |
+------------+-----------+----------+-----------------------+-------+----------+----------------+
11 rows in set (0.00 sec)
```

Write SQL query to recalculate and update the total cost of each order in the orders table based on prices and quantities in the OrderDetails table.

```
mysql> UPDATE Orders
    -> SET TotalAmount = (
    ->     SELECT SUM(od.Quantity * p.Price)
    ->     FROM OrderDetails od
    ->     JOIN Products p ON od.ProductId = p.ProductId
    ->     WHERE od.OrderId = Orders.OrderId
    -> )
    -> WHERE OrderId IN (SELECT OrderId FROM OrderDetails);
Query OK, 7 rows affected (0.08 sec)
Rows matched: 7  Changed: 7  Warnings: 0

mysql> select * from Orders;
+---------+------------+------------+-------------+-----------+
| OrderId | CustomerId | OrderDate  | TotalAmount | Status    |
+---------+------------+------------+-------------+-----------+
|     201 |          1 | 2023-01-15 |   143000.00 | Pending   |
|     202 |          2 | 2023-02-20 |    16500.00 | Shipped   |
|     203 |          3 | 2023-03-10 |    38500.00 | Delivered |
|     204 |          4 | 2023-04-05 |     4400.00 | Pending   |
|     205 |          5 | 2023-05-15 |    55000.00 | Shipped   |
|     206 |          1 | 2023-06-01 |    15400.00 | Delivered |
|     207 |          6 | 2023-07-10 |     9900.00 | Pending   |
|     208 |          7 | 2023-08-18 |     8000.00 | Shipped   |
|     209 |          8 | 2023-09-25 |    35000.00 | Delivered |
|     210 |          9 | 2023-10-02 |    17000.00 | Pending   |
|     211 |          8 | 2023-12-09 |    12000.00 | Pending   |
+---------+------------+------------+-------------+-----------+
11 rows in set (0.00 sec)
```

Write SQL query to insert new product into products table including Product Name, Description, Price and any other relevant details.

```
mysql> insert into Products(ProductId,ProductName,Description,Price)
    -> values(111,'Speaker','High raze audio speaker',7000);
Query OK, 1 row affected (0.01 sec)

mysql> select * from Products;
+-----------+-----------------+-----------------------------------+----------+
| ProductId | ProductName     | Description                       | Price    |
+-----------+-----------------+-----------------------------------+----------+
|       101 | Laptop          | High-performance laptop           | 55000.00 |
|       102 | Smartphone      | Latest smartphone model           | 33000.00 |
|       103 | Tablet          | 10-inch tablet with HD display    | 16500.00 |
|       104 | Headphones      | Noise-canceling over-ear headphones |  5500.00 |
|       105 | Digital Camera  | 20MP digital camera with zoom lens | 22000.00 |
|       106 | Fitness Tracker | Water-resistant fitness tracker   |  2200.00 |
|       107 | Smart TV        | 55-inch 4K Smart TV               | 25300.00 |
|       108 | Gaming Console  | Next-gen gaming console           | 29700.00 |
|       109 | Wireless Speaker | Bluetooth wireless speaker       |  7700.00 |
|       110 | Coffee Maker    | Programmable coffee maker         |  9900.00 |
|       111 | Speaker         | High raze audio speaker           |  7000.00 |
+-----------+-----------------+-----------------------------------+----------+
11 rows in set (0.00 sec)
```

Write SQL query to update status of specific order in orders table(e.g. from pending to shipped)

```
mysql> UPDATE Orders
    -> SET Status='Delevered'
    -> WHERE OrderId=202;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from Orders;
+---------+------------+------------+-------------+-----------+
| OrderId | CustomerId | OrderDate  | TotalAmount | Status    |
+---------+------------+------------+-------------+-----------+
|     201 |          1 | 2023-01-15 |   143000.00 | Pending   |
|     202 |          2 | 2023-02-20 |    16500.00 | Delevered |
|     203 |          3 | 2023-03-10 |    38500.00 | Delivered |
|     204 |          4 | 2023-04-05 |     4400.00 | Pending   |
|     205 |          5 | 2023-05-15 |    55000.00 | Shipped   |
|     206 |          1 | 2023-06-01 |    15400.00 | Delivered |
|     207 |          6 | 2023-07-10 |     9900.00 | Pending   |
|     208 |          7 | 2023-08-18 |     8000.00 | Shipped   |
|     210 |          9 | 2023-10-02 |    17000.00 | Pending   |
+---------+------------+------------+-------------+-----------+
9 rows in set (0.00 sec)
```

Write SQL query to calculate and update number of orders placed by each customer in the Customers table based on data in orders table.

```
mysql> alter table Customers add NumberOfOrders int;
Query OK, 0 rows affected (0.03 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> select * from Customers;
+------------+-----------+----------+------------------------+-------+----------+-----------------+
| CustomerId | FirstName | LastName | Email                  | Phone | Address  | NumberOfOrders |
+------------+-----------+----------+------------------------+-------+----------+-----------------+
|          1 | Vedant    | Joshi    | vedant@gmail.com       | 12345 | Mumbai   |            NULL |
|          2 | Vinay     | Natkar   | vinay@gmil.com         | 23432 | Pune     |            NULL |
|          3 | Sarvesh   | Deshmukh | sarvesh@gmail.com      | 98734 | Delhi    |            NULL |
|          4 | Kaustubh  | Kulkarni | kaustubh@gmail.com     | 76349 | Chennai  |            NULL |
|          5 | Vikrant   | Pachbhai | vikrant@gmail.com      | 34870 | Nagpur   |            NULL |
|          6 | Ram       | Shingne  | ram@gmail.com          | 64982 | Hydrabad |            NULL |
|          7 | Abhishek  | Zune     | abhishek@gmail.com     | 85478 | Akola    |            NULL |
|          8 | Rahul     | Gayakwad | rahul@gmail.com        | 92847 | Latur    |            NULL |
|          9 | Rohit     | Sharma   | rohit@gmail.com        | 21290 | Nashik   |            NULL |
|         10 | Tilak     | Verma    | tilak@gmail.com        | 55467 | Jaypur   |            NULL |
|         11 | New       | Customer | new.customer@gmail.com | 98765 | Kanpur   |            NULL |
+------------+-----------+----------+------------------------+-------+----------+-----------------+
11 rows in set (0.00 sec)
```

```
mysql> update Customers
    -> set NumberOfOrders=(
    -> select count(*)
    -> from Orders
    -> where Orders.CustomerId=Customers.CustomerId);
Query OK, 11 rows affected (0.01 sec)
Rows matched: 11  Changed: 11  Warnings: 0

mysql> select * from Customers;
+------------+-----------+----------+------------------------+-------+----------+-----------------+
| CustomerId | FirstName | LastName | Email                  | Phone | Address  | NumberOfOrders |
+------------+-----------+----------+------------------------+-------+----------+-----------------+
|          1 | Vedant    | Joshi    | vedant@gmail.com       | 12345 | Mumbai   |               2 |
|          2 | Vinay     | Natkar   | vinay@gmil.com         | 23432 | Pune     |               1 |
|          3 | Sarvesh   | Deshmukh | sarvesh@gmail.com      | 98734 | Delhi    |               1 |
|          4 | Kaustubh  | Kulkarni | kaustubh@gmail.com     | 76349 | Chennai  |               1 |
|          5 | Vikrant   | Pachbhai | vikrant@gmail.com      | 34870 | Nagpur   |               1 |
|          6 | Ram       | Shingne  | ram@gmail.com          | 64982 | Hydrabad |               1 |
|          7 | Abhishek  | Zune     | abhishek@gmail.com     | 85478 | Akola    |               1 |
|          8 | Rahul     | Gayakwad | rahul@gmail.com        | 92847 | Latur    |               2 |
|          9 | Rohit     | Sharma   | rohit@gmail.com        | 21290 | Nashik   |               1 |
|         10 | Tilak     | Verma    | tilak@gmail.com        | 55467 | Jaypur   |               0 |
|         11 | New       | Customer | new.customer@gmail.com | 98765 | Kanpur   |               0 |
+------------+-----------+----------+------------------------+-------+----------+-----------------+
11 rows in set (0.00 sec)
```

Task 3. Aggregate functions, Having, OrderBy, GroupBy and Joins

Write SQL query to retrieve list of all orders along with customer information(e.g. customer name)for each order.

```
mysql> SELECT
    ->    Orders.OrderId,
    ->    Orders.CustomerId,
    ->    CONCAT(Customers.FirstName,' ',Customers.LastName) AS CustomerName,
    ->    Orders.OrderDate,
    ->    Orders.TotalAmount,
    ->    Orders.Status
    -> FROM
    ->    Orders
    -> JOIN
    ->    Customers ON Orders.CustomerId=Customers.CustomerId;
+---------+------------+------------------+------------+-------------+-----------+
| OrderId | CustomerId | CustomerName     | OrderDate  | TotalAmount | Status    |
+---------+------------+------------------+------------+-------------+-----------+
|     201 |          1 | Vedant Joshi     | 2023-01-15 |   143000.00 | Pending   |
|     202 |          2 | Vinay Natkar     | 2023-02-20 |    16500.00 | Delevered |
|     203 |          3 | Sarvesh Deshmukh | 2023-03-10 |    38500.00 | Delivered |
|     204 |          4 | Kaustubh Kulkarni| 2023-04-05 |     4400.00 | Pending   |
|     205 |          5 | Vikrant Pachbhai | 2023-05-15 |    55000.00 | Shipped   |
|     206 |          1 | Vedant Joshi     | 2023-06-01 |    15400.00 | Delivered |
|     207 |          6 | Ram Shingne      | 2023-07-10 |     9900.00 | Pending   |
|     208 |          7 | Abhishek Zune    | 2023-08-18 |     8000.00 | Shipped   |
|     210 |          9 | Rohit Sharma     | 2023-10-02 |    17000.00 | Pending   |
+---------+------------+------------------+------------+-------------+-----------+
9 rows in set (0.00 sec)
```

Write SQL query to find total revenue generated by each product. Include product name and total revenue.

```
mysql> select
    ->   P.ProductId,
    ->   P.ProductName,
    ->   sum(OD.Quantity*P.Price) AS TotalRevenue
    -> from
    ->   Products P
    -> join
    ->   OrderDetails OD ON P.ProductId=OD.ProductId
    -> group by
    ->   P.ProductId,P.ProductName;
+-----------+-----------------+--------------+
| ProductId | ProductName     | TotalRevenue |
+-----------+-----------------+--------------+
|       101 | Laptop          |    110000.00 |
|       102 | Smartphone      |     33000.00 |
|       103 | Tablet          |     16500.00 |
|       104 | Headphones      |     16500.00 |
|       105 | Digital Camera  |     22000.00 |
|       106 | Fitness Tracker |      4400.00 |
|       107 | Smart TV        |     25300.00 |
|       108 | Gaming Console  |     29700.00 |
|       109 | Wireless Speaker|     15400.00 |
|       110 | Coffee Maker    |      9900.00 |
+-----------+-----------------+--------------+
10 rows in set (0.00 sec)
```

Write SQL query to list all customers who have made at least one purchase. Include their names and contact information.

```
mysql> select
    ->    Customers.CustomerId,
    ->    Customers.FirstName,
    ->    Customers.LastName,
    ->    Customers.Email,
    ->    Customers.Phone,
    ->    Customers.Address
    -> from
    ->    Customers
    -> join
    ->    Orders on Customers.CustomerId=Orders.CustomerId
    -> group by
    ->    Customers.CustomerId,Customers.FirstName,Customers.LastName,Customers.Email,Customers.Phone,Customers.Address;
+------------+-----------+----------+-------------------+-------+----------+
| CustomerId | FirstName | LastName | Email             | Phone | Address  |
+------------+-----------+----------+-------------------+-------+----------+
|          1 | Vedant    | Joshi    | vedant@gmail.com  | 12345 | Mumbai   |
|          2 | Vinay     | Natkar   | vinay@gmil.com    | 23432 | Pune     |
|          3 | Sarvesh   | Deshmukh | sarvesh@gmail.com | 98734 | Delhi    |
|          4 | Kaustubh  | Kulkarni | kaustubh@gmail.com| 76349 | Chennai  |
|          5 | Vikrant   | Pachbhai | vikrant@gmail.com | 34870 | Nagpur   |
|          6 | Ram       | Shingne  | ram@gmail.com     | 64982 | Hydrabad |
|          7 | Abhishek  | Zune     | abhishek@gmail.com| 85478 | Akola    |
|          8 | Rahul     | Gayakwad | rahul@gmail.com   | 92847 | Latur    |
|          9 | Rohit     | Sharma   | rohit@gmail.com   | 21290 | Nashik   |
+------------+-----------+----------+-------------------+-------+----------+
9 rows in set (0.00 sec)
```

Write SQL query to find most popular product which is with highest total quantity ordered. Include product name and total quantity ordered.

```
mysql> select
    ->    P.ProductName,
    ->    sum(OD.Quantity) as TotalQuantityOrdered
    -> from
    ->    Products P
    -> join
    ->    OrderDetails OD on P.ProductId=OD.ProductId
    -> group by
    ->    P.ProductName
    -> order by
    ->    TotalQuantityOrdered desc
    -> limit 1;
+-------------+----------------------+
| ProductName | TotalQuantityOrdered |
+-------------+----------------------+
| Headphones  |                    3 |
+-------------+----------------------+
1 row in set (0.00 sec)
```

Write SQL query to retrieve list of products along with their corresponding description.

```
mysql> select
    ->    ProductId,
    ->    ProductName,
    ->    Description
    -> from
    ->    Products;
+-----------+-----------------+-------------------------------------+
| ProductId | ProductName     | Description                         |
+-----------+-----------------+-------------------------------------+
|       101 | Laptop          | High-performance laptop             |
|       102 | Smartphone      | Latest smartphone model             |
|       103 | Tablet          | 10-inch tablet with HD display      |
|       104 | Headphones      | Noise-canceling over-ear headphones |
|       105 | Digital Camera  | 20MP digital camera with zoom lens  |
|       106 | Fitness Tracker | Water-resistant fitness tracker     |
|       107 | Smart TV        | 55-inch 4K Smart TV                 |
|       108 | Gaming Console  | Next-gen gaming console             |
|       109 | Wireless Speaker | Bluetooth wireless speaker         |
|       110 | Coffee Maker    | Programmable coffee maker           |
|       111 | Speaker         | High raze audio speaker             |
+-----------+-----------------+-------------------------------------+
11 rows in set (0.00 sec)
```

Write SQL query to calculate average order value for each customer. Include customers name and their average order value.

```
mysql> select
    ->    C.CustomerId,
    ->    C.FirstName,
    ->    C.LastName,
    ->    avg(O.TotalAmount) as AverageOrderValue
    -> from
    ->    Customers C
    -> join
    ->    Orders O on C.CustomerId=O.CustomerId
    -> group by
    ->    C.CustomerId,C.FirstName,C.LastName;
+------------+-----------+----------+-------------------+
| CustomerId | FirstName | LastName | AverageOrderValue |
+------------+-----------+----------+-------------------+
|          1 | Vedant    | Joshi    |      79200.000000 |
|          2 | Vinay     | Natkar   |      16500.000000 |
|          3 | Sarvesh   | Deshmukh |      38500.000000 |
|          4 | Kaustubh  | Kulkarni |       4400.000000 |
|          5 | Vikrant   | Pachbhai |      55000.000000 |
|          6 | Ram       | Shingne  |       9900.000000 |
|          7 | Abhishek  | Zune     |       8000.000000 |
|          8 | Rahul     | Gayakwad |      23500.000000 |
|          9 | Rohit     | Sharma   |      17000.000000 |
+------------+-----------+----------+-------------------+
9 rows in set (0.00 sec)
```

Write SQL query to find out order with highest total revenue. Include OrderId,customer information and total revenue.

```
mysql> select
    ->    O.OrderId,
    ->    C.CustomerId,
    ->    C.FirstName,
    ->    C.LastName,
    ->    O.TotalAmount as TotalRevenue
    -> from
    ->    Orders O
    -> join
    ->    Customers C on O.CustomerId=C.CustomerId
    -> order by
    ->    TotalRevenue desc
    -> limit 1;
+---------+------------+-----------+----------+--------------+
| OrderId | CustomerId | FirstName | LastName | TotalRevenue |
+---------+------------+-----------+----------+--------------+
|     201 |          1 | Vedant    | Joshi    |    143000.00 |
+---------+------------+-----------+----------+--------------+
1 row in set (0.00 sec)
```

Write SQL query to list products and number of times each product has been ordered.

```
mysql> select
    ->    P.ProductId,
    ->    P.ProductName,
    ->    count(OD.OrderId) as NumberOfOrders
    -> from
    ->    Products P
    -> left join
    ->    OrderDetails OD on P.ProductId=OD.ProductId
    -> group by
    ->    P.ProductId, P.ProductName
    -> order by
    ->    NumberOfOrders desc;
+-----------+-----------------+----------------+
| ProductId | ProductName     | NumberOfOrders |
+-----------+-----------------+----------------+
|       101 | Laptop          |              1 |
|       102 | Smartphone      |              1 |
|       103 | Tablet          |              1 |
|       104 | Headphones      |              1 |
|       105 | Digital Camera  |              1 |
|       106 | Fitness Tracker |              1 |
|       107 | Smart TV        |              1 |
|       108 | Gaming Console  |              1 |
|       109 | Wireless Speaker|              1 |
|       110 | Coffee Maker    |              1 |
|       111 | Speaker         |              0 |
+-----------+-----------------+----------------+
11 rows in set (0.00 sec)
```

Write SQL query to find customers who have purchased specific product.

```
mysql> SELECT
    ->     C.CustomerId,
    ->     C.FirstName,
    ->     C.LastName,
    ->     C.Email,
    ->     C.Phone,
    ->     C.Address
    -> FROM
    ->     Customers C
    -> JOIN
    ->     Orders O ON C.CustomerId = O.CustomerId
    -> JOIN
    ->     OrderDetails OD ON O.OrderId = OD.OrderId
    -> JOIN
    ->     Products P ON OD.ProductId = P.ProductId
    -> WHERE
    ->     P.ProductName='Smart TV';
+------------+-----------+----------+------------------+-------+---------+
| CustomerId | FirstName | LastName | Email            | Phone | Address |
+------------+-----------+----------+------------------+-------+---------+
|          5 | Vikrant   | Pachbhai | vikrant@gmail.com | 34870 | Nagpur  |
+------------+-----------+----------+------------------+-------+---------+
1 row in set (0.00 sec)
```

Write SQL query to calculate total revenue generated by all orders placed within a specific time period.

```
mysql> SELECT
    ->     SUM(TotalAmount) AS TotalRevenue
    -> FROM
    ->     Orders
    -> WHERE
    ->     OrderDate BETWEEN '2023-01-01' AND '2023-12-31';
+--------------+
| TotalRevenue |
+--------------+
|    307700.00 |
+--------------+
1 row in set (0.00 sec)
```

Task 4: Subquery and its type

Write SQL query to find out which customers have not placed any orders.

```
mysql> SELECT
    ->     C.CustomerId,
    ->     C.FirstName,
    ->     C.LastName,
    ->     C.Email,
    ->     C.Phone,
    ->     C.Address
    -> FROM
    ->     Customers C
    -> LEFT JOIN
    ->     Orders O ON C.CustomerId = O.CustomerId
    -> WHERE
    ->     O.OrderId IS NULL;
+------------+-----------+----------+-----------------------+-------+---------+
| CustomerId | FirstName | LastName | Email                 | Phone | Address |
+------------+-----------+----------+-----------------------+-------+---------+
|          8 | Rahul     | Gayakwad | rahul@gmail.com       | 92847 | Latur   |
|         10 | Tilak     | Verma    | tilak@gmail.com       | 55467 | Jaypur  |
|         11 | New       | Customer | new.customer@gmail.com | 98765 | Kanpur  |
+------------+-----------+----------+-----------------------+-------+---------+
3 rows in set (0.00 sec)
```

Write SQL query to find the total number of products available for sale.

```
mysql> SELECT COUNT(*) AS TotalProducts
    -> FROM Products;
+---------------+
| TotalProducts |
+---------------+
|            11 |
+---------------+
1 row in set (0.00 sec)
```

Write SQL query to calculate the total revenue generated by TechShop.

```
mysql> SELECT
    ->     SUM(TotalAmount) AS TotalRevenue
    -> FROM
    ->     Orders;
+--------------+
| TotalRevenue |
+--------------+
|    307700.00 |
+--------------+
1 row in set (0.00 sec)
```

Write SQL query to calculate the average quantity ordered for products in a specific category.

```
mysql> SELECT
    ->     AVG(OD.Quantity) AS AverageQuantityOrdered
    -> FROM
    ->     OrderDetails OD
    -> JOIN
    ->     Products P ON OD.ProductId = P.ProductId
    -> WHERE
    ->     P.ProductName='Smartphone';
+------------------------+
| AverageQuantityOrdered |
+------------------------+
|                 1.0000 |
+------------------------+
1 row in set (0.00 sec)
```

Write SQL query to calculate the total revenue generated by a specific customer.

```
mysql> SELECT
    ->     SUM(O.TotalAmount) AS TotalRevenue
    -> FROM
    ->     Orders O
    -> JOIN
    ->     OrderDetails OD ON O.OrderId = OD.OrderId
    -> WHERE
    ->     O.CustomerId =3;
+--------------+
| TotalRevenue |
+--------------+
|     77000.00 |
+--------------+
1 row in set (0.00 sec)
```

Write SQL query to find the customers who have placed the most Orders.List their names and the number of orders they have placed.

```
mysql> SELECT
    ->     C.CustomerId,
    ->     C.FirstName,
    ->     C.LastName,
    ->     COUNT(O.OrderId) AS NumberOfOrders
    -> FROM
    ->     Customers C
    -> JOIN
    ->     Orders O ON C.CustomerId = O.CustomerId
    -> GROUP BY
    ->     C.CustomerId, C.FirstName, C.LastName
    -> ORDER BY
    ->     NumberOfOrders DESC
    -> LIMIT 1;
+------------+-----------+----------+----------------+
| CustomerId | FirstName | LastName | NumberOfOrders |
+------------+-----------+----------+----------------+
|          1 | Vedant    | Joshi    |              2 |
+------------+-----------+----------+----------------+
1 row in set (0.00 sec)
```

Write SQL query to find the most popular product category,which is the one with highest total quantity ordered across all orders.

```
mysql> SELECT
    ->     P.ProductName,
    ->     SUM(OD.Quantity) AS TotalQuantityOrdered
    -> FROM
    ->     Products P
    -> JOIN
    ->     OrderDetails OD ON P.ProductId = OD.ProductId
    -> GROUP BY
    ->     P.ProductName
    -> ORDER BY
    ->     TotalQuantityOrdered DESC
    -> LIMIT 1;
+-------------+----------------------+
| ProductName | TotalQuantityOrdered |
+-------------+----------------------+
| Headphones  |                    3 |
+-------------+----------------------+
1 row in set (0.00 sec)
```

Write SQL query to find the customer who has spent the most money(highest total revenue) on products.List their name and total spending.

```
mysql> SELECT
    ->     C.CustomerId,
    ->     C.FirstName,
    ->     C.LastName,
    ->     SUM(O.TotalAmount) AS TotalSpending
    -> FROM
    ->     Customers C
    -> JOIN
    ->     Orders O ON C.CustomerId = O.CustomerId
    -> GROUP BY
    ->     C.CustomerId, C.FirstName, C.LastName
    -> ORDER BY
    ->     TotalSpending DESC
    -> LIMIT 1;
+------------+-----------+----------+---------------+
| CustomerId | FirstName | LastName | TotalSpending |
+------------+-----------+----------+---------------+
|          1 | Vedant    | Joshi    |     158400.00 |
+------------+-----------+----------+---------------+
1 row in set (0.00 sec)
```

Write SQL query to calculate the average order value(total revenue divided by number of orders) for all customers.

```
mysql> SELECT
    ->     AVG(TotalAmount) AS AverageOrderValue
    -> FROM
    ->     Orders;
+-------------------+
| AverageOrderValue |
+-------------------+
|      34188.888889 |
+-------------------+
1 row in set (0.00 sec)
```

Write an SQL query to find the total number of orders placed by each customer and list their names along with the order count.

```
mysql> SELECT
    ->     C.CustomerId,
    ->     C.FirstName,
    ->     C.LastName,
    ->     COUNT(O.OrderId) AS OrderCount
    -> FROM
    ->     Customers C
    -> LEFT JOIN
    ->     Orders O ON C.CustomerId = O.CustomerId
    -> GROUP BY
    ->     C.CustomerId, C.FirstName, C.LastName;
+------------+-----------+----------+------------+
| CustomerId | FirstName | LastName | OrderCount |
+------------+-----------+----------+------------+
|          1 | Vedant    | Joshi    |          2 |
|          2 | Vinay     | Natkar   |          1 |
|          3 | Sarvesh   | Deshmukh |          1 |
|          4 | Kaustubh  | Kulkarni |          1 |
|          5 | Vikrant   | Pachbhai |          1 |
|          6 | Ram       | Shingne  |          1 |
|          7 | Abhishek  | Zune     |          1 |
|          8 | Rahul     | Gayakwad |          0 |
|          9 | Rohit     | Sharma   |          1 |
|         10 | Tilak     | Verma    |          0 |
|         11 | New       | Customer |          0 |
+------------+-----------+----------+------------+
11 rows in set (0.00 sec)
```

Entity Relationship Diagram