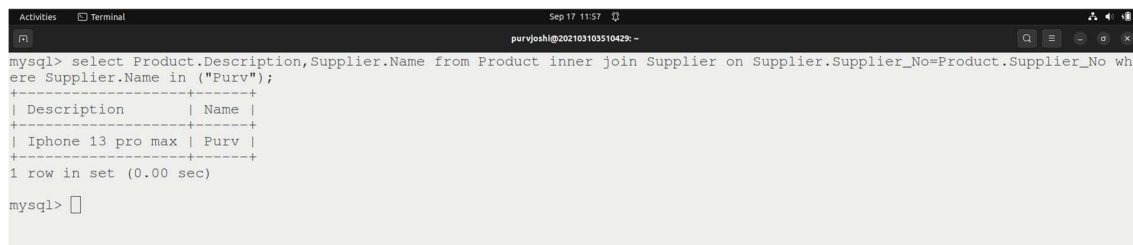


## Practical-7

**Aim: To Perform Simple queries, string manipulation operations. Nested queries and Complex queries.**

**Query-1:** List the description of product which are supplied by supplier Purv using IN.

**Ans:** select Product.Description, Supplier. Name from Product inner join Supplier on Supplier.Supplier\_No=Product.Supplier\_No where Supplier.Name in ("Purv");



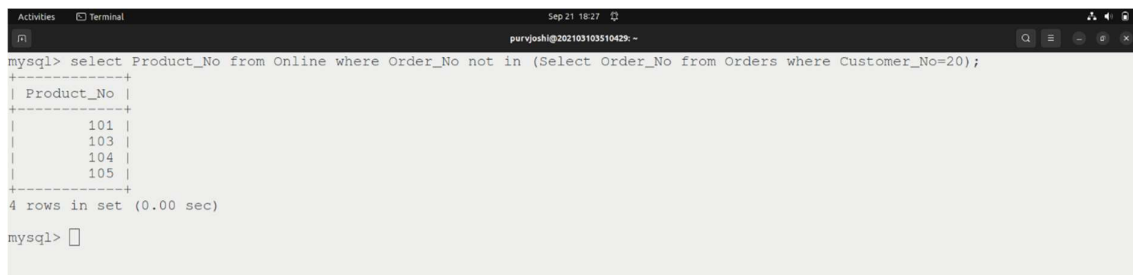
```

mysql> select Product.Description,Supplier.Name from Product inner join Supplier on Supplier.Supplier_No=Product.Supplier_No where Supplier.Name in ("Purv");
+-----+-----+
| Description | Name |
+-----+-----+
| Iphone 13 pro max | Purv |
+-----+-----+
1 row in set (0.00 sec)

mysql>
  
```

**Query-2:** List all product no which are not ordered by the customer having same CORDER\_NO as the CUSTOMER\_NO 20.

**Ans:** select Product No from Online where Order\_No not in (Select Order\_No from Orders where Customer\_No=20);



```

mysql> select Product_No from Online where Order_No not in (Select Order_No from Orders where Customer_No=20);
+-----+
| Product_No |
+-----+
| 101 |
| 103 |
| 104 |
| 105 |
+-----+
4 rows in set (0.00 sec)

mysql>
  
```

**Query-3:** List the locations and addresses of all depots which stock any product which is supplied to the depot whose location is Surat.

**Ans:** select Depot. Location, Depot. Address from Depot inner join Stock on Depot.Depot\_No=Stock.Depot\_No where Depot. Address="Surat";



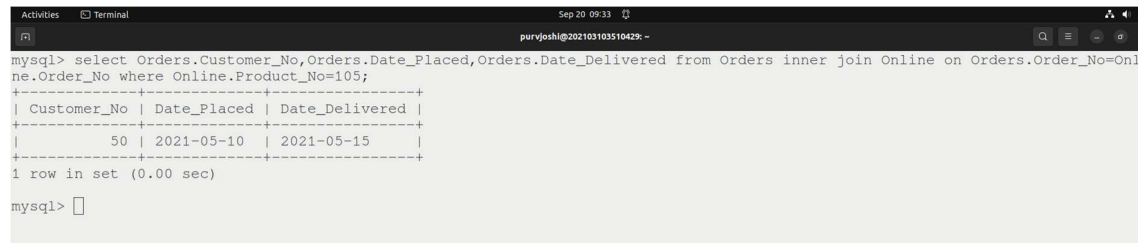
```

mysql> select Depot.Location,Depot.Address from Depot inner join Stock on Depot.Depot_No=Stock.Depot_No where Depot.Address="Surat";
+-----+-----+
| Location | Address |
+-----+-----+
| Gujarat | Surat |
+-----+-----+
1 row in set (0.00 sec)

mysql>
  
```

**Query-4:** List the customer\_no, date\_placed and date\_delivered for all orders which contain order lines for the product with product\_no 105 using existential quantification (ie the where exists condition).

**Ans:** select Orders. Customer\_No, Orders.Date\_Placed, Orders. Date\_Delivered from Orders innerjoin Online on Orders.Order\_No=Online.Order\_No where Online.Product\_No=105;



```

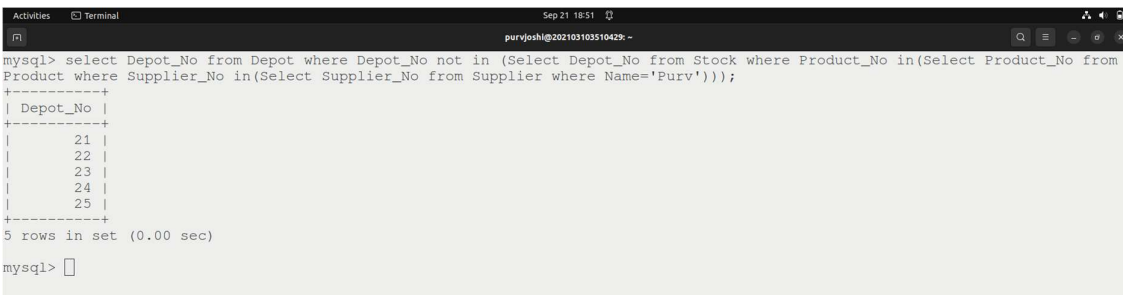
mysql> select Orders.Customer_No,Orders.Date_Placed,Orders.Date_Delivered from Orders inner join Online on Orders.Order_No=Online.Order_No where Online.Product_No=105;
+-----+-----+-----+
| Customer_No | Date_Placed | Date_Delivered |
+-----+-----+-----+
| 50          | 2021-05-10  | 2021-05-15     |
+-----+-----+-----+
1 row in set (0.00 sec)

mysql>

```

**Query-5:** List the depots which do not stock any product supplied by the supplier whose name is Purv.

**Ans:** select Depot No from Depot where Depot No not in (Select Depot No from Stock where Product No in (Select Product No from Product where Supplier\_No in (Select Supplier\_No from Supplier where Name='Purv'))));



```

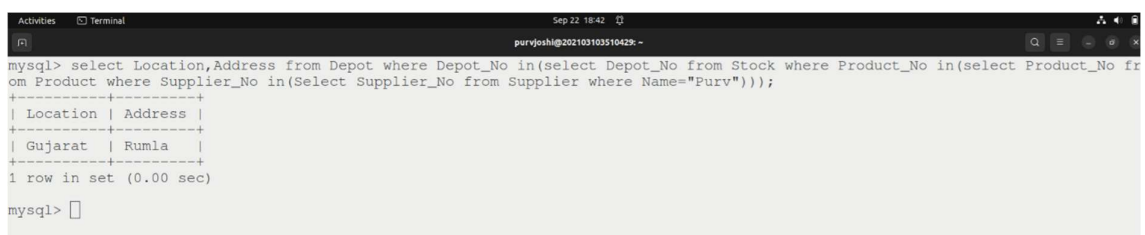
mysql> select Depot_No from Depot where Depot_No not in (Select Depot_No from Stock where Product_No in (Select Product_No from Product where Supplier_No in (Select Supplier_No from Supplier where Name='Purv'))));
+-----+
| Depot_No |
+-----+
| 21        |
| 22        |
| 23        |
| 24        |
| 25        |
+-----+
5 rows in set (0.00 sec)

mysql>

```

**Query-6:** List the locations and addresses of all depots which stock all products supplied by the supplier Purv.

**Ans:** select Location, Address from Depot where Depot No in (select Depot No from Stock where Product No in (select Product No from Product where Supplier\_No in (Select Supplier\_No from Supplier where Name="Purv"))));



```

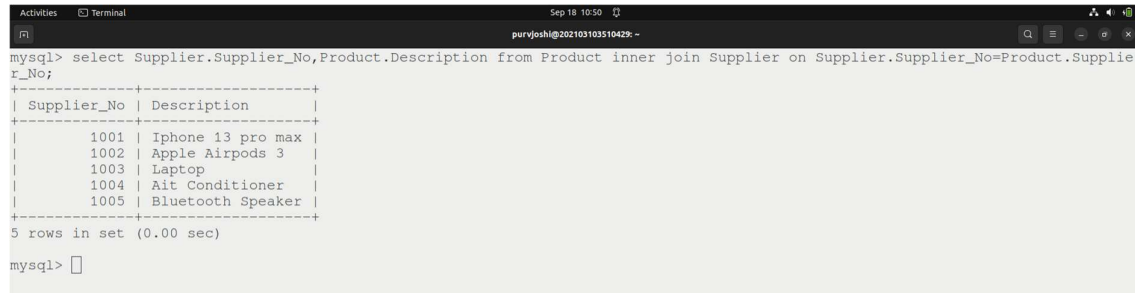
mysql> select Location,Address from Depot where Depot_No in (select Depot_No from Stock where Product_No in (select Product_No from Product where Supplier_No in (Select Supplier_No from Supplier where Name="Purv"))));
+-----+-----+
| Location | Address |
+-----+-----+
| Gujarat  | Rumla   |
+-----+-----+
1 row in set (0.00 sec)

mysql>

```

**Query-7:** List the number of different products supplied by each supplier\_no.

**Ans:** select Supplier.Supplier\_No, Product. Description from Product inner join Supplier on Supplier.Supplier\_No=Product.Supplier\_No;



```

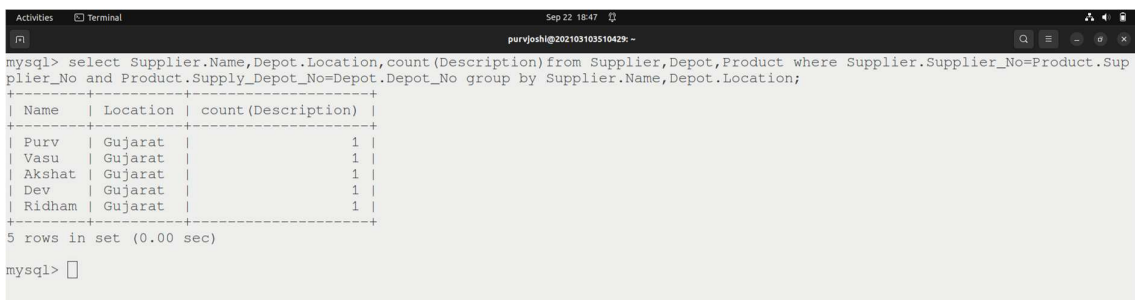
mysql> select Supplier.Supplier_No,Product.Description from Product inner join Supplier on Supplier.Supplier_No=Product.Supplier_No;
+-----+-----+
| Supplier_No | Description |
+-----+-----+
| 1001 | Iphone 13 pro max |
| 1002 | Apple AirPods 3 |
| 1003 | Laptop |
| 1004 | Ait Conditioner |
| 1005 | Bluetooth Speaker |
+-----+-----+
5 rows in set (0.00 sec)

mysql>

```

**Query-8:** List the name of each supplier with the location of each depot and the number of products supplied by that supplier and stocked at that depot.

**Ans:** select Supplier.Name, Depot. Location, count (Description) from Supplier, Depot, Product where Supplier.Supplier\_No=Product.Supplier\_No and Product.Supply\_Depot\_No=Depot. Depot\_No group by Supplier.Name, Depot. Location;



```

mysql> select Supplier.Name,Depot.Location,count(Description)from Supplier,Depot,Product where Supplier.Supplier_No=Product.Supplier_No and Product.Supply_Depot_No=Depot.Depot_No group by Supplier.Name,Depot.Location;
+-----+-----+-----+
| Name | Location | count(Description) |
+-----+-----+-----+
| Purv | Gujarat | 1 |
| Vasu | Gujarat | 1 |
| Akshat | Gujarat | 1 |
| Dev | Gujarat | 1 |
| Ridham | Gujarat | 1 |
+-----+-----+-----+
5 rows in set (0.00 sec)

mysql>

```

**Query-9:** List all product descriptions with the product's supplier name, sorted by product description within supplier name (i.e., all products for a supplier listed together in alphabetic order).

**Ans:** select Supplier.Name, Product. Description from Supplier inner join Product on Supplier.Supplier\_No=Product.Supplier\_No order by Product.Description;

```

Activities Terminal
Sep 22 18:52
purvjoshi@202103103510429: ~
mysql> select Supplier.Name,Product.Description from Supplier inner join Product on Supplier.Supplier_No=Product.Supplier_No or
der by Product.Description;
+-----+
| Name | Description |
+-----+
| Dev   | Air Conditioner |
| Vasu  | Apple AirPods 3 |
| Ridham | Bluetooth Speaker |
| Purv  | Iphone 13 pro max |
| Akshat | Laptop |
+-----+
5 rows in set (0.00 sec)

mysql>

```

**Query-10:** Display customer name who has ordered on same date.

**Ans:** select Name From Customer where Customer\_No in (select Customer\_No from Orders where Date Placed= (select Date\_Placed from Orders group by Date Placed having Count (Date\_Placed) >1));

```

Activities Terminal
Sep 22 19:01
purvjoshi@202103103510429: ~
mysql> select Name From Customer where Customer_No in(select Customer_No from Orders where Date_Placed=(select Date_Placed from
Orders group by Date_Placed having Count(Date_Placed)>1));
+-----+
| Name |
+-----+
| Akshat |
| Ridham |
+-----+
2 rows in set (0.00 sec)

mysql>

```

## Conclusion:

In nested queries, a query is written inside a query. There are many SQL functions that let you “edit” string data. The breadth and scope of the SQL commands provide the capability to create and manipulate a wide variety of database objects using the various commands