Name : Prajakta Keer

Roll No : 33231

Class : TE 10

SL1 ASSIGNMENT 7

Problem Statement : Write following nested sub queries on above DB.

A]. set membership(in, not in)

Get order details of products which are not from electronics and sports category.

```
mysql> select * from products where category not in ('electronics', 'sports');
+---------+--------------+-------+------------+
| prod_id | prod_name    | price | category   |
+---------+--------------+-------+------------+
|     103 | sanitizer    |  2000 | healthcare |
|     105 | sweatshirt   |  2500 | clothing   |
|     106 | 3 ply masks  |   500 | healthcare |
|     108 | saree        |   800 | clothing   |
|     109 | carpet       |  1200 | decor      |
|     110 | disinfectant |   300 | healthcare |
+---------+--------------+-------+------------+
6 rows in set (0.00 sec)
```

Get the name and quantity of product which have either 10 or 20 or 30 quantities.

```
mysql> select prod_name, quantity from orders, products where orders.prod_id =
products.prod_id and quantity in (10, 20, 30);
+--------------+----------+
| prod_name    | quantity |
+--------------+----------+
| 3 ply masks  |       10 |
| disinfectant |       20 |
| saree        |       30 |
+--------------+----------+
3 rows in set (0.00 sec)
```

B]. set comparison (<,>,<=,>=, <some, >=some, <all etc.)

Get the product details whose product price is more than "Apple 7".

```
mysql> select * from products where price > (select price from products where
prod_name = "apple7");
+---------+-----------+-------+-------------+
| prod_id | prod_name | price | category    |
+---------+-----------+-------+-------------+
|     107 | macbook   | 55000 | electronics |
+---------+-----------+-------+-------------+
1 row in set (0.00 sec)
```

Find the purchase order whose purchase amount is greater than average purchase amount.

```
mysql> select * from orders where amount > (select avg(amount) from orders);
+----------+---------+---------+----------+--------+---------------+--------+
| order_id | prod_id | cust_id | quantity | amount | purchase_date | city   |
+----------+---------+---------+----------+--------+---------------+--------+
|     1005 |     101 |       5 |        1 |  47500 | 2016-08-22    | pune   |
|     1007 |     107 |       7 |        3 | 156750 | 2015-05-05    | nagpur |
|     1015 |     101 |       5 |        2 |  95000 | 2020-11-21    | mumbai |
|     1018 |     108 |       8 |       30 |  24000 | 2000-01-01    | nagpur |
+----------+---------+---------+----------+--------+---------------+--------+
4 rows in set (0.00 sec)
```