

Assessment 3 – Introduction To Databases

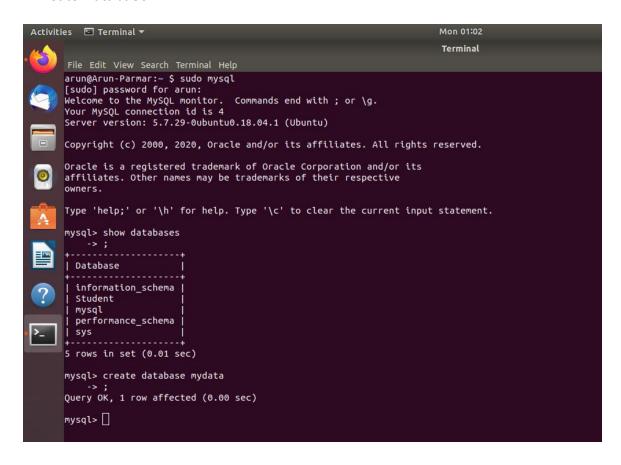
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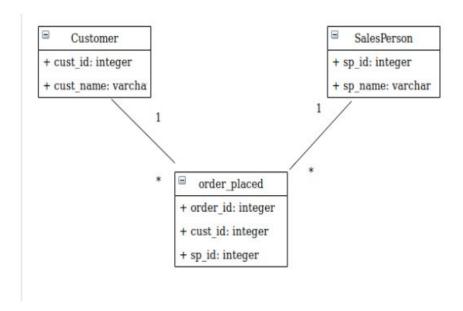
College Name: UPES

Problem Statement: There can be multiple customers, who can place multiple orders on the site. Now a salesperson can handle these orders will distribute into multiple sales persons (One order will be assigned to one salesperson only). So a salesperson can have multiple orders of multiple customers

1.Create Database



2. Design Schema.



3. Create tables.

```
Terminal

Termin
```

4.Insert sample data

```
Terminal
mysql> insert into customer values(1001, "Tommy Shelby"),(1010,"Arthur Shelby"),(1100,"John Shelby");
Query OK, 3 rows affected (0.02 sec)
Records: 3 Duplicates: 0 Warnings: 0
mysql> insert into salesperson values(4201,"Amar"),(4202,"Akbar"),(4203,"Anthony");
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0
mysql> insert into order_placed values(9111111,1001,4202),(9222222,1001,4203),(9333333,1010,4201),(9444444,1100,4203),(9555555,1100,4202),(966666,1100,4202);
Query OK, 6 rows affected (0.02 sec)
Records: 6 Duplicates: 0 Warnings: 0
mysql> select * from order_placed
 | order_id | cust_id | sp_id |
                          1001 | 4202
1001 | 4203
1010 | 4201
1100 | 4203
1100 | 4202
1100 | 4202
     9111111 |
     9222222
     9333333 |
     9555555
     9666666
6 rows in set (0.00 sec)
mysql> select * from customer values;
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 'values' at line 1
mysql> select * from customer
 | cust_id | cust_name
        1001 | Tommy Shelby
1010 | Arthur Shelby
1100 | John Shelby
```

5. Find the salesperson that has multiple orders.

6. Find the all sales person details along with order details.

```
Terminal
      mysql> select sp.*,orders.cust_id,orders.order_id from salesperson as sp left join order_placed as orders on orders.sp_id=sp.sp_id;
      | sp_id | sp_name | cust_id | order_id |
         4201
              Amar
                              1010
                                       9333333
               | Akbar
| Akbar
| Akbar
                              1001
                              1100
1100
         4202
                                       9555555
         4202
                                       9666666
         4203 | Anthony
4203 | Anthony
                                       9222222
9444444
                              1001
0
                              1100
      6 rows in set (0.00 sec)
```

7.Create index

8. How to show index on a table

```
mysql> create index order_index on order_placed(order_id);
Query OK, 0 rows affected (0.04 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> show indexes from order_placed;
              | Non_unique | Key_name | Seq_in_index | Column_name | Collation | Cardinality | Sub_part | Packed | Null | Index_type | Com
ment | Index_comment |
| order_placed |
                         0 | PRIMARY
                                                      1 | order_id | A
                                                                                                      NULL | NULL |
                                                                                                                           BTREE
| order_placed |
                         1 | cust_id |
                                                     1 | cust_id | A
                                                                                            3 | NULL | NULL | YES | BTREE
| order_placed |
                         1 | sp_id |
                                                      1 | sp_id
                                                                                                      NULL | NULL | YES | BTREE
| order_placed |
                         1 | order_index |
                                                     1 | order_id | A
                                                                                                      NULL | NULL | BTREE
4 rows in set (0.00 sec)
```

9. Find the order number, salesperson name, along with the customer to whom that order belongs to.

```
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mysql> select op.order_id, sp.sp_name, cust.cust_name from order_placed as op inner join salesperson as sp on op.sp_id=sp.sp_id inner join cus toner as cust on cust.cust_id=op.cust_id;

| order_id | sp_name | cust_name |
| 9111111 | Akbar | Tommy Shelby |
| 9222222 | Anthony | Tommy Shelby |
| 9333333 | Amar | Arthur Shelby |
| 9444444 | Anthony | John Shelby |
| 9555555 | Akbar | John Shelby |
| 9666666 | Akbar | John Shelby |
| 9666666 | Akbar | John Shelby |
```