

Assessment - 3 Introduction To Databases

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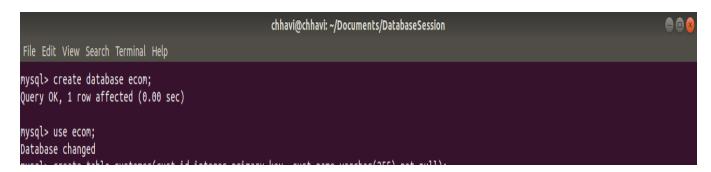
College: UPES

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

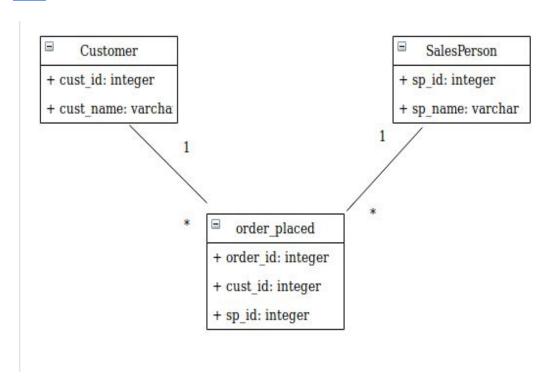
Ans.

create database ecom;



2.Design Schema.

Ans.



3.Create tables



Customer Table

create table customer(cust_id integer primary key, cust_name varchar(255) not null);

SalesPerson Table

create table salesperson(sp_id integer primary key, sp_name varchar(255) not null);

Order Placed Table

create table order_placed(order_id integer primary key,cust_id integer, sp_id integer,foreign key (cust_id) references customer (cust_id), foreign key (sp_id) references salesperson(sp_id));

4. Insert sample data

Ans.

```
chhavi@chhavi: ~/Documents/DatabaseSession
File Edit View Search Terminal Help
mysql> insert into customer values(1001,"Chhavi Sharma"),(1010,"Vaibhavi Pathak"),(1013,"Subhash Singh");
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0
mysql> insert into salesperson values(4201,"Hemant Trivedi"),(4242,"Lucky Singh"),(4203,"Shahid Sethi");
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0
mysql> insert into order_placed values(9019987,1010,4203),(9037277,1013,4242),(904323,1001,4201);
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0
mysql> insert into order_placed values(9019087,1010,4201),(9039277,1010,4203),(906323,1013,4201);
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0
mysql> select * from customer;
| cust id | cust name
    1001 | Chhavi Sharma
     1010 | Vaibhavi Pathak
    1013 | Subhash Singh
3 rows in set (0.00 sec)
mysql> select * from salesperson;
 sp_id | sp_name
  4201 | Hemant Trivedi |
4203 | Shahid Sethi |
   4242 | Lucky Singh
3 rows in set (0.00 sec)
```

```
mysql> insert into order_placed values(9063231,1013,4201);
Query OK, 1 row affected (0.01 sec)
mysql> insert into order_placed values(9063273,1013,4201);
Query OK, 1 row affected (0.01 sec)
mysql> select * from order_placed;
 order_id | cust_id | sp_id |
  9019087 |
               1010 | 4201 |
  9019987 |
               1010 | 4203
  9037277 |
               1013 | 4242
  9039277
               1010 | 4203
               1013 | 4201
1013 | 4201
  9063231 |
  9063273 |
6 rows in set (0.00 sec)
mysql>
```

5. Find the salesperson that has multiple orders.

Ans.

select sp_name from order_placed, salesperson where order_placed.sp_id = salesperson.sp_id group by order_placed.sp_id having count(order_placed.sp_id)>1;

OR

select sp.* from salesperson as sp inner join order_placed as op on op.sp_id=sp.sp_id group by op.sp_id having count(op.sp_id)>1;

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

Ans.

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;

```
chhavi@chhavi: ~/Documents/DatabaseSession
File Edit View Search Terminal Help
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;
                      c | cust_id | order_id |
   4201 | Hemant Trivedi |
4201 | Hemant Trivedi |
4201 | Hemant Trivedi |
4203 | Shahid Sethi |
4203 | Shahid Sethi |
4242 | Lucky Singh |
                                       1010
                                                 9019087
                                                 9063231
                                       1013 |
                                                 9063273
                                       1010
                                                 9019987
                                       1010
                                                 9039277
                                                9037277
                                       1013 I
  rows in set (0.00 sec)
mysql>
```

7.Create index



create index order_index on order_placed(order_id);

```
chhavi@chhavi: ~/Documents/DatabaseSession ⊜ © ⊗

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mysql> create index order_index on order_placed(order_id);

Query OK, 0 rows affected (0.03 sec)

Records: 0 Duplicates: 0 Warnings: 0
```

8. How to show index on a table

Ans.

show indexes from order_placed;

```
mysql> show indexes from order_placed;
Table | Non_unique | Key_name | Seq_in_index | Column_name | Collation | Cardinality | Sub_part | Packed | Null | Index_type | Com
nent | Index_comment |
 order_placed |
                     0 | PRIMARY
                                            NULL | NULL |
                                                                                      NULL | NULL | YES | BTREE
 order_placed |
                     1 | cust_id |
                                            1 | cust_id
                                                                                      NULL | NULL | YES | BTREE
 order_placed |
                     1 | sp_id |
                                             1 | sp_id
 order_placed |
                     1 | order_index |
                                             1 | order_id | A
                                                                                      NULL | NULL |
                                                                                                       BTREE
4 rows in set (0.00 sec)
mysql> 🗌
```

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

Ans.

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 customer as cust on cust.cust_id=op.cust_id;

