

Assignment-3 (Introduction to database)

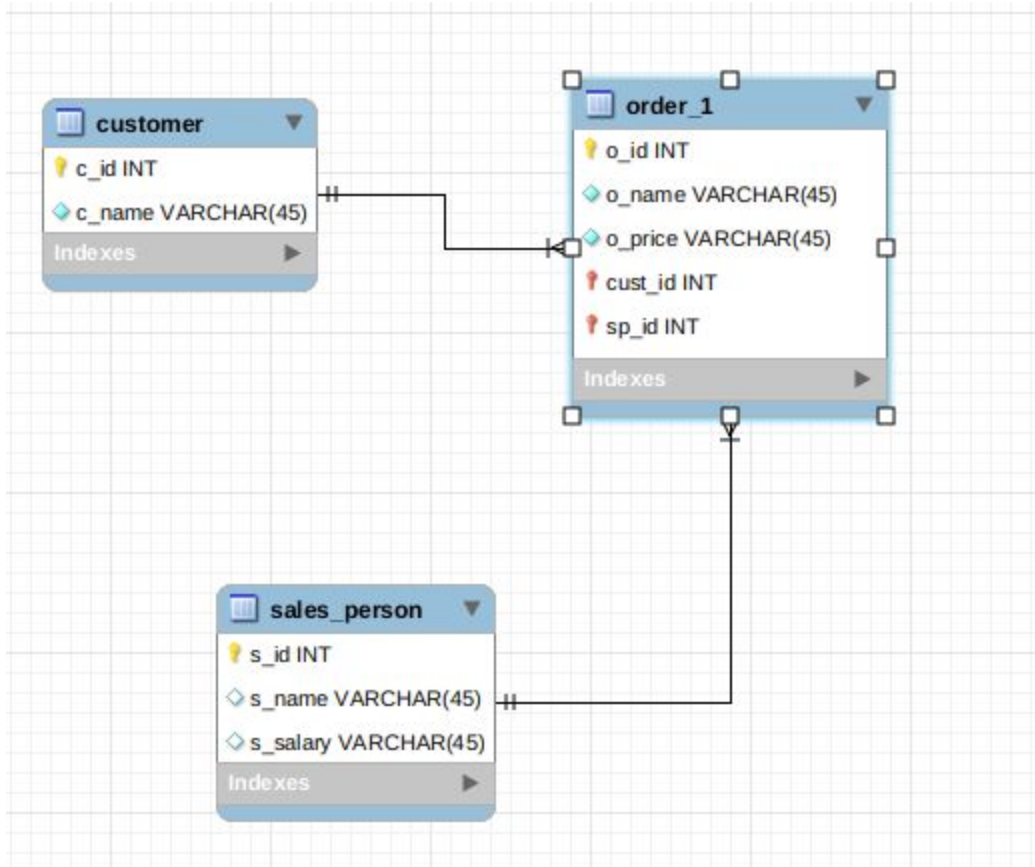
Problem Statement: There can be multiple customers, who can place multiple orders on the site. Now a sales person can handle these orders will distribute into multiple sales persons (One order will be assign to one salesperson only). So a sales person can have multiple orders of multiple customers.

1.Create databse

```
mysql> create database bootcamp;
Query OK, 1 row affected (0.00 sec)

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

2.Design schema



3.Create table

```
mysql> create table order_1(o_id int primary key,o_item varchar(20), o_price int,cust_id int not null, foreign key cust_ord(cust_id) reference
s customers(c_id));
Query OK, 0 rows affected (0.42 sec)
```

```
mysql> desc order_1;
```

Field	Type	Null	Key	Default	Extra
o_id	int(11)	NO	PRI	NULL	
o_item	varchar(20)	YES		NULL	
o_price	int(11)	YES		NULL	
cust_id	int(11)	NO	MUL	NULL	

```
4 rows in set (0.01 sec)
```

```
mysql> desc customers;
```

Field	Type	Null	Key	Default	Extra
c_id	int(11)	NO	PRI	NULL	
c_name	varchar(20)	YES		NULL	

```
2 rows in set (0.00 sec)
```

```
mysql> create table sales_person(s_id int primary key,s_name varchar(20),s_salary int);
Query OK, 0 rows affected (0.35 sec)
```

```
mysql> desc sales_person;
```

Field	Type	Null	Key	Default	Extra
s_id	int(11)	NO	PRI	NULL	
s_name	varchar(20)	YES		NULL	
s_salary	int(11)	YES		NULL	

```
3 rows in set (0.00 sec)
```

4.Insert sample data

```
mysql> insert into customers values(1,'ansh');
Query OK, 1 row affected (0.08 sec)

mysql> insert into customers values(2,'harsh');
Query OK, 1 row affected (0.09 sec)

mysql> insert into customers values(3,'ram');
Query OK, 1 row affected (0.10 sec)

mysql> select * from customers;
+-----+-----+
| c_id | c_name |
+-----+-----+
|    1 | ansh   |
|    2 | harsh  |
|    3 | ram    |
+-----+-----+
3 rows in set (0.00 sec)

mysql> insert into order_1 values(101,'lapi',50000,1);
Query OK, 1 row affected (0.08 sec)

mysql> insert into order_1 values(102,'phone',15000,2);
Query OK, 1 row affected (0.07 sec)

mysql> select * from order_1;
+-----+-----+-----+-----+
| o_id | o_item | o_price | cust_id |
+-----+-----+-----+-----+
|   101 | lapi   |   50000 |        1 |
|   102 | phone  |   15000 |        2 |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> select * from sales_person;
+-----+-----+-----+
| s_id | s_name | s_salary |
+-----+-----+-----+
|    10 | mohan  |   16465 |
|    11 | sohan  |   15465 |
+-----+-----+-----+
2 rows in set (0.00 sec)
```

5.Find the sales person have multiple orders.

```
mysql> select s.s_name,count(o_id) from order_1 ord ,sales_person s where s.s_id=ord.sp_id group by (ord.sp_id) having count(*)>1;
+-----+-----+
| s_name | count(o_id) |
+-----+-----+
| mohan  | 2           |
+-----+-----+
1 row in set (0.00 sec)
```

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

```
mysql> select * from sales_person sp inner join order_1 ord where sp.s_id=ord.sp_id;
+-----+-----+-----+-----+-----+-----+-----+-----+
| s_id | s_name | s_salary | o_id | o_item | o_price | cust_id | sp_id |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 10   | mohan  | 16465    | 101  | lapi   | 50000   | 1       | 10    |
| 11   | sohan  | 15465    | 102  | phone  | 15000   | 2       | 11    |
+-----+-----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

7.Create index

```
mysql> create index index_name on customers (c_name);
Query OK, 0 rows affected (0.36 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

8.How to show index on a table

```
mysql> show index from customers;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| Table      | Non_unique | Key_name | Seq_in_index | Column_name | Collation | Cardinality | Sub_part | Packed | Null | Index_type | Comment |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| customers | 0          | PRIMARY | 1            | c_id        | A         | 2           | NULL    | NULL  |      | BTREE      |         |
| customers | 1          | index_name | 1            | c_name      | A         | 3           | NULL    | NULL  | YES  | BTREE      |         |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

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

```
mysql> select c.c_name,ord.o_id,s.s_name from order_1 ord ,sales_person s ,customers c where c.c_id=ord.cust_id and ord.sp_id=s.s_id;
+-----+-----+-----+
| c_name | o_id | s_name |
+-----+-----+-----+
| ansh   | 101  | mohan  |
| harsh  | 102  | sohan  |
| ansh   | 103  | mohan  |
+-----+-----+-----+
3 rows in set (0.00 sec)

mysql>
```