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Database Assignment

## 1. Create Database

mysql> create database salesdb; Query OK, 1 row affected (0.01 sec)

## 2. Design Schema

```
mysql> desc customer details;
| cName | varchar(20) | YES | | NULL
| cEmail | varchar(20) | YES |       | NULL
3 rows in set (0.01 sec)
mysql> desc order__details;
| Field | Type | Null | Key | Default | Extra |
oId | varchar(20) | NO | PRI | NULL
| cId | varchar(20) | YES | | NULL
| sId | varchar(20) | YES |
                        NULL
3 rows in set (0.00 sec)
mysql> desc sales_details;
| sId | varchar(20) | NO | PRI | NULL
| sName | varchar(20) | YES |       | NULL
2 rows in set (0.01 sec)
mysql>
```

## 3. Create tables

```
mysql> create table customer_details (cId varchar(20), cName varchar(20), cEmail varchar(20));
Query OK, 0 rows affected (0.03 sec)
mysql> describe customer_details;
                         | Null | Key | Default | Extra |
 Field | Type
 cId | varchar(20) | YES | | NULL
cName | varchar(20) | YES | | NULL
| cEmail | varchar(20) | YES |
                                                 NULL
3 rows in set (0.01 sec)
mysql>
mysql> create table sales details (sId varchar(20) primary key, sName varchar(20));
Query OK, 0 rows affected (0.04 sec)
mysql> desc sales_details;
| Field | Type
                                 | Null | Key | Default | Extra |
| sId | varchar(20) | NO | PRI | NULL
| sName | varchar(20) | YES | NULL
2 rows in set (0.01 sec)
mysql>
mysql> create table order__details (oId varchar(20) primary key, cId varchar(20) references customer_details(cId), sId varchar(20) references sales_de
tails(sId));
Query OK, 0 rows affected (0.03 sec)
mysql> desc order_details;
ERROR 1146 (42502): Table 'assignment.order_details' doesn't exist
mysql> desc order__details;
 Field | Type | Null | Key | Default | Extra |

oId | varchar(20) | NO | PRI | NULL | |

cId | varchar(20) | YES | | NULL | |

sId | varchar(20) | YES | | NULL | |
3 rows in set (0.00 sec)
mysql>
```

## 4. Insert sample data

```
mysql> insert into order__details values("o002", "c002","s001");
Query OK, 1 row affected (0.01 sec)

mysql> insert into order__details values("o001", "c001","s001");
Query OK, 1 row affected (0.01 sec)

mysql> insert into order__details values("o002", "c003","s002");
ERROR 1062 (23000): Duplicate entry 'o002' for key 'order__details.PRIMARY'
mysql> insert into order__details values("o003", "c003","s002");
Query OK, 1 row affected (0.01 sec)

mysql> insert into customer_details values("c001", "vineet", "vineet@gmail.com");
Query OK, 1 row affected (0.01 sec)

mysql> insert into customer_details values("c002", "nitin", "nitin@gmail.com");
Query OK, 1 row affected (0.02 sec)

mysql> insert into customer_details values("c003", "lalit", "lalit@gmail.com");
Query OK, 1 row affected (0.01 sec)
```

5. Find the sales person have multiple orders.

mysql> insert into sales\_details values("s001", "chotu");
Query OK, 1 row affected (0.02 sec)

mysql> insert into sales\_details values("s002", "kartik"); Query OK, 1 row affected (0.02 sec)

```
mysql> select s.sName from sales_details s join order__details o on s.sId = o.
sId where o.sId = (select sId from order__details group by sId having count(*)
> 1) limit 1;
+-----+
| sName |
+-----+
| chotu |
+-----+
1 row in set (0.00 sec)
mysql>
```

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

7. Create index

```
mysql> create index idx on order__details(oId);
Query OK, 0 rows affected (0.04 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql>
```

8. How to show index on a table

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

```
mysql> select c.cName, o.oId, o.sId from customer_details c join order__details o on c.cId = o.cId;

| cName | oId | sId |
| vineet | o001 | s001 |
| nitin | o002 | s001 |
| lalit | o003 | s002 |
| the contract of the cont
```