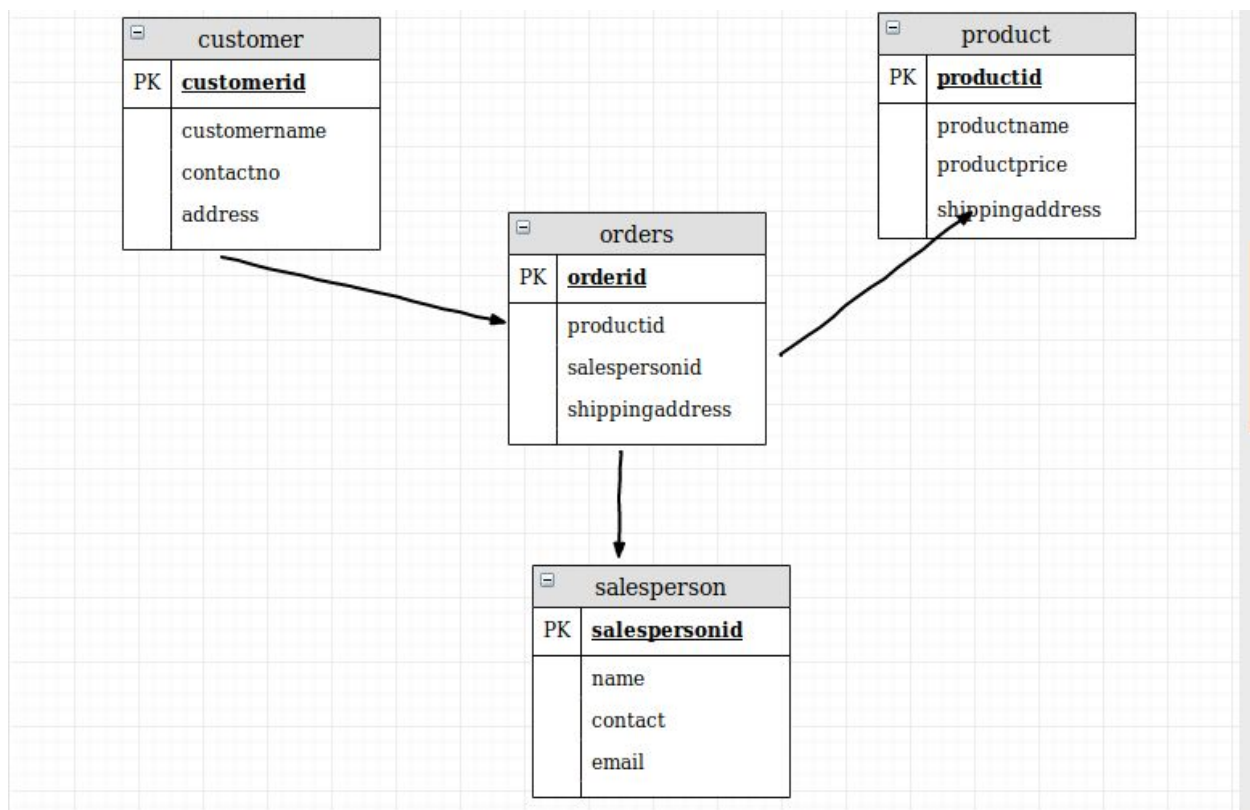


**Database**  
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### 1.Create Database

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

### 2.Draw the schema



### 3.Create tables

#### Create table customer

```
create table customer(customerid int(10) NOT NULL AUTO_INCREMENT,customername  
varchar(20),contactno int(10),address varchar(30),primary key(customerid));
```

```
mysql> desc customer;
```

Field	Type	Null	Key	Default	Extra
customerid	int(10)	NO	PRI	NULL	auto_increment
customername	varchar(20)	YES		NULL	
contactno	int(10)	YES		NULL	
address	varchar(30)	YES		NULL	

4 rows in set (0.00 sec)

### Create table salesperson

create table salesperson(salespersonid int(10) NOT NULL AUTO\_INCREMENT,name varchar(20),contactno int(10),email varchar(30),primary key(salespersonid));

```
mysql> desc salesperson;
```

Field	Type	Null	Key	Default	Extra
salespersonid	int(10)	NO	PRI	NULL	auto_increment
name	varchar(20)	YES		NULL	
contactno	int(10)	YES		NULL	
email	varchar(30)	YES		NULL	

4 rows in set (0.00 sec)

### Create table product

```
create table salesperson(salespersonid int(10) NOT NULL AUTO_INCREMENT,name  
varchar(20),contactno int(10),email varchar(30),primary key(salespersonid));
```

```
mysql> desc product;
```

Field	Type	Null	Key	Default	Extra
productid	int(10)	NO	PRI	NULL	auto_increment
productname	varchar(20)	YES		NULL	
productprice	int(30)	YES		NULL	

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

### Create table orders

```
create table orders(orderid int(10) not null auto_increment,productid int(10),customerid  
int(10),salespersonid int(10),shippingaddress varchar(30),primary key(orderid));
```

```
mysql> create table orders(orderid int(10) not null auto_increment,productid int(10),customerid int(10),salespersonid int(10),shippingaddress  
varchar(30),primary key(orderid));  
Query OK, 0 rows affected (1.72 sec)  
  
mysql> show tables;
```

Tables_in_assignment
customer
orders
product
salesperson

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

### 4.Insert sample data

```
insert into customer values(1,'anita',784009276,'aaaa');
```

```
insert into product values(1,'fruit',6567765);
```

```
insert into salesperson values(1,'rahul',849484948,'anc@ttn.com');
```

```
insert into orders values(2,2,2,2,'kanpur');
```

```
mysql> select * from customer;
+-----+-----+-----+-----+
| customerid | customername | contactno | address |
+-----+-----+-----+-----+
| 1 | anita | 784009276 | aaaa |
| 2 | namrata | 897890320 | bbbbbb |
| 3 | vidhi | 867890320 | ccc |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> select * from orders;
+-----+-----+-----+-----+-----+
| orderid | productid | customerid | salespersonid | shippingaddress |
+-----+-----+-----+-----+-----+
| 1 | 1 | 1 | 1 | lucknow |
| 2 | 2 | 2 | 2 | kanpur |
| 3 | 3 | 3 | 3 | gzb |
+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> select * from product;
+-----+-----+-----+
| productid | productname | productprice |
+-----+-----+-----+
| 1 | fruit | 6567765 |
| 2 | coco | 6547765 |
+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> select * from salesperson;
+-----+-----+-----+-----+
| salespersonid | name | contactno | email |
+-----+-----+-----+-----+
| 1 | rahul | 849484948 | anc@ttn.com |
| 2 | rohit | 849484448 | abnc@ttn.com |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

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

select s.salespersonid,s.name,s.contactno,s.email,o.orderid,o.productid,p.productname from salesperson s join orders o join product p on s.salespersonid=o.salespersonid=p.productid;

```
mysql> select s.salespersonid,s.name,s.contactno,s.email,o.orderid,o.productid,p.productname from salesperson s join orders o join product p on
s.salespersonid=o.salespersonid=p.productid;
+-----+-----+-----+-----+-----+-----+
| salespersonid | name | contactno | email | orderid | productid | productname |
+-----+-----+-----+-----+-----+-----+
| 1 | rahul | 849484948 | anc@ttn.com | 1 | 1 | fruit |
| 2 | rohit | 849484448 | abnc@ttn.com | 2 | 2 | fruit |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql>
```

7. Create index

create unique index customerindex on customer(customerid,customername,contactno,address);

```
mysql> create unique index customerindex on customer(customerid,customername,contactno,address);
Query OK, 0 rows affected (0.43 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

8. How to show index on a table

```
mysql> show index from customer;
```

Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment
customer	0	PRIMARY	1	customerid	A	2	NULL	NULL		BTREE	
customer	0	customerindex	1	customerid	A	3	NULL	NULL		BTREE	
customer	0	customerindex	2	customername	A	3	NULL	NULL	YES	BTREE	
customer	0	customerindex	3	contactno	A	3	NULL	NULL	YES	BTREE	
customer	0	customerindex	4	address	A	3	NULL	NULL	YES	BTREE	

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

select s.name,c.customername,o.orderid from salesperson s join orders o join customer c on s.salespersonid=o.salespersonid and c.customerid=o.customerid;

```
mysql> select s.salespersonname,c.customername,o.orderid from salesperson s join orders o join customer c on s.salespersonid=o.salespersonid and c.customerid=o.customerid;
ERROR 1054 (42S22): Unknown column 's.salespersonname' in 'field list'
mysql> select s.name,c.customername,o.orderid from salesperson s join orders o join customer c on s.salespersonid=o.salespersonid and c.customerid=o.customerid;
```

name	customername	orderid
rahul	anita	1
rohit	namrata	2

2 rows in set (0.00 sec)