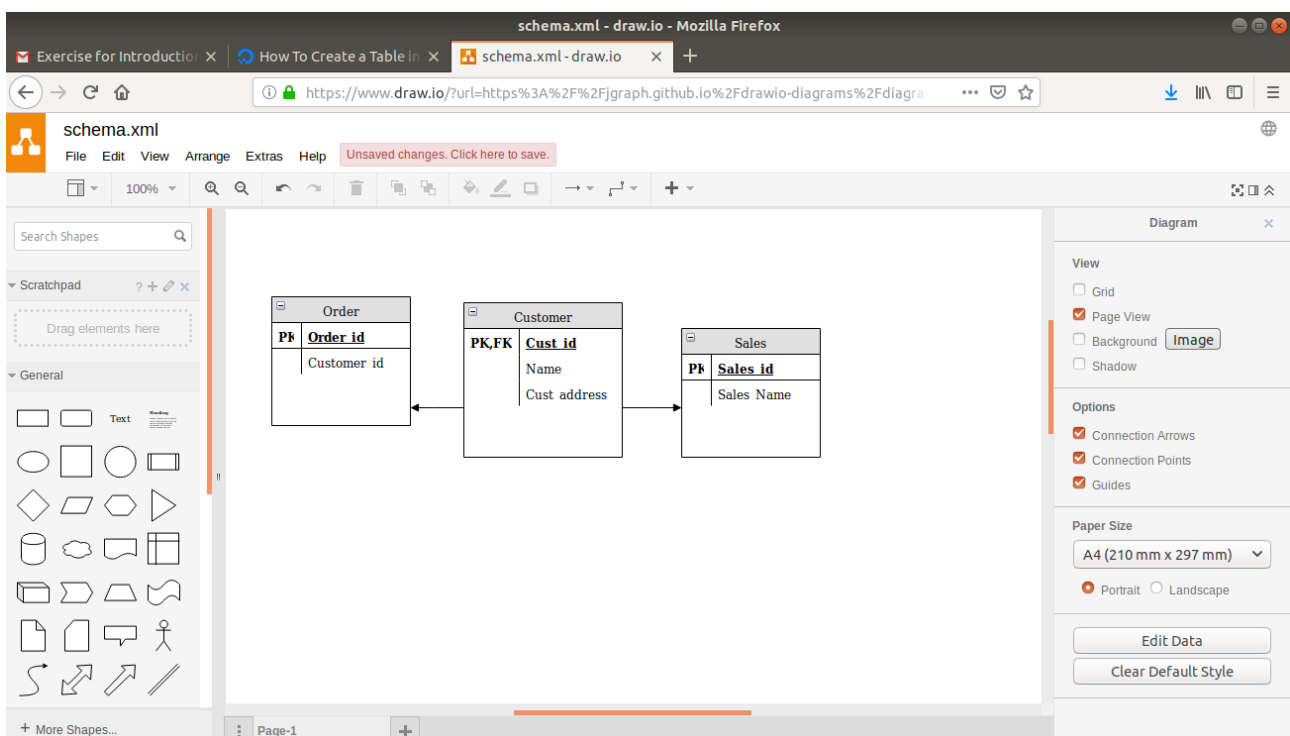


Introduction of database

1.Create Database

```
ttn@adi: ~  
File Edit View Search Terminal Help  
mysql> create database db3;  
Query OK, 1 row affected (0.00 sec)  
  
mysql> use db3;  
Database changed  
mysql> 
```

2.Design Schema



3.Create tables

```
ttn@adi: ~  
File Edit View Search Terminal Help  
order_id bigint(20) NOT NULL,  
  
d' at line 1  
mysql> system clear  
  
mysql> create table customer(  
-> cust_id bigint(20) NOT NULL,  
-> name varchar(20) NOT NULL,  
-> address varchar(20) NOT NULL,  
-> primary key(cust_id));  
Query OK, 0 rows affected (0.28 sec)  
  
mysql> create table order(  
-> order_id bigint(20) not null,  
-> cust_id bigint(20) not null,  
-> name varchar(20) not null,
```

```
ttn@adi: ~  
File Edit View Search Terminal Help  
mysql> create table sales(  
-> sal_id bigint(10) not null,  
-> s_name varchar(20) not null);  
Query OK, 0 rows affected (0.32 sec)  
  
mysql> create table order(  
-> order_id bigint(10) not null,  
-> cust_id bigint(20) not null,  
-> primary key (order_id));  
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 'order  
(  
order_id bigint(10) not null,  
cust_id bigint(20) not null,  
primary key (o' at line 1  
mysql> create table orders( order_id bigint(10) not null, cust_id bigint(20) not  
null, primary key (order_id));  
Query OK, 0 rows affected (0.29 sec)  
  
mysql> █
```

4. Insert sample data

```
ttn@adi: ~  
File Edit View Search Terminal Help  
mysql> insert into sales(sal_id,name) values (1,'raj');  
ERROR 1054 (42S22): Unknown column 'name' in 'field list'  
mysql> insert into sales(sal_id,s_name) values (1,'raj');  
Query OK, 1 row affected (0.07 sec)  
  
mysql> insert into sales(sal_id,s_name) values (2,'salrahul');  
Query OK, 1 row affected (0.08 sec)  
  
mysql> insert into sales(sal_id,s_name) values (3,'salram');  
Query OK, 1 row affected (0.09 sec)  
  
mysql> insert into sales(sal_id,s_name) values (4,'salhimu');  
Query OK, 1 row affected (0.07 sec)  
  
mysql> █
```

```
ttn@adi: ~  
File Edit View Search Terminal Help  
ERROR 1054 (42S22): Unknown column 'o_id' in 'field list'  
mysql> desc orders;  
+-----+-----+-----+-----+-----+-----+  
| Field      | Type          | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+-----+  
| order_id   | bigint(10)    | NO   | PRI | NULL    |      |  
| cust_id    | bigint(20)    | NO   | MUL | NULL    |      |  
| sal_id     | bigint(10)    | YES  | MUL | NULL    |      |  
+-----+-----+-----+-----+-----+-----+  
3 rows in set (0.00 sec)  
  
mysql> insert into orders(order_id,sal_id,cust_id) values (01,1,2);  
Query OK, 1 row affected (0.08 sec)  
  
mysql> insert into orders(order_id,sal_id,cust_id) values (02,1,2);  
Query OK, 1 row affected (0.08 sec)  
  
mysql> insert into orders(order_id,sal_id,cust_id) values (03,2,1);  
Query OK, 1 row affected (0.08 sec)  
  
mysql> insert into orders(order_id,sal_id,cust_id) values (04,3,3);  
Query OK, 1 row affected (0.09 sec)  
  
mysql> █
```

5. Find the sales person have multiple orders.

```
ttn@adi: ~  
File Edit View Search Terminal Help  
mysql> select s.s_name from sales2 s,orders o  
-> where s.sal_id=o.sal_id  
-> group by sal_id  
->  
->  
-> d  
-> ;  
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 'd' at  
line 6  
mysql> select s.s_name from sales2 s,orders o  
-> where s.sal_id=o.sal_id  
-> group by s.sal_id  
-> having count(s.sal_id>1);  
+-----+  
| s_name |  
+-----+  
| salraj |  
| salrahul |  
| salram |  
+-----+  
3 rows in set (0.00 sec)  
  
mysql> 
```

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

```
ttn@adi: ~  
File Edit View Search Terminal Help  
mysql> select s_name from sales2,orders where 1<(select count(*) from where sale  
s2.sal_id=orders.sal_id);  
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 'where  
sales2.sal_id=orders.sal_id)' at line 1  
mysql> select sales2.sal_id,sales.s_name,orders.order_id  
-> from sales2,orders  
-> where sales2.sal_id=orders.sal_id;  
ERROR 1054 (42S22): Unknown column 'sales.s_name' in 'field list'  
mysql> select sales2.sal_id,sales2.s_name,orders.order_id from sales2,orders wh  
ere sales2.sal_id=orders.sal_id;  
+-----+-----+-----+  
| sal_id | s_name | order_id |  
+-----+-----+-----+  
| 1 | salraj | 1 |  
| 1 | salraj | 2 |  
| 2 | salrahu | 3 |  
| 3 | salram | 4 |  
+-----+-----+-----+  
4 rows in set (0.05 sec)  
  
mysql> █
```

7.Create index

```
ttn@adi: ~  
File Edit View Search Terminal Help  
mysql> CREATE INDEX sal_id ON sales(sal_id);  
Query OK, 0 rows affected (0.34 sec)  
Records: 0 Duplicates: 0 Warnings: 0  
  
mysql> █
```

8.How to show index on a table

```
ttn@adi: ~
File Edit View Search Terminal Help
Records: 0 Duplicates: 0 Warnings: 0

mysql> show index from sales;
+-----+-----+-----+-----+-----+-----+-----+-----+
---+-----+-----+-----+-----+-----+-----+-----+
---+
| Table | Non_unique | Key_name          | Seq_in_index | Column_name | Collation | Index_comment |
+-----+-----+-----+-----+-----+-----+-----+
| sales |          1 | orders_foreign_key |             1 | order_id    | A         |               |
|       |          1 | NULL              |             1 | NULL        |           |               |
| sales |          1 | sal_id            |             1 | sal_id      | A         |               |
|       |          4 | NULL              |             1 | NULL        |           |               |
+-----+-----+-----+-----+-----+-----+-----+
---+
2 rows in set (0.00 sec)

mysql> 
```


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

```
ttn@adi: ~  
File Edit View Search Terminal Help  
mysql> select o.o_id,c.cust_id,s.s_name from orders o,customer c,sales2 s  
-> where o.sal_id=s.sal_id and  
-> o.cust_id=c.cust_id;  
ERROR 1054 (42S22): Unknown column 'o.o_id' in 'field list'  
mysql> select o.order_id,c.cust_id,s.s_name from orders o,customer c,sales2 s wh  
ere o.sal_id=s.sal_id and o.cust_id=c.cust_id;  
+-----+-----+-----+  
| order_id | cust_id | s_name |  
+-----+-----+-----+  
| 1 | 2 | salraj |  
| 2 | 2 | salraj |  
| 3 | 1 | salrahul |  
| 4 | 3 | salram |  
+-----+-----+-----+  
4 rows in set (0.00 sec)  
  
mysql> █
```