**Primary key:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Customer\_id** | **First\_name** | **Last\_name** | **City** |
| 25 | Ajay | Sinha | Mumbai |
| 26 | Rohit | Verma | Mumbai |
| 27 | Akash | Sinha | Delhi |
| 28 | Rahul | Sharma | Kolkata |
| 29 | Vijay | Rathore | Bangalore |
| 30 | Rohit | Paul | Chennai |

**Create table:**

use maulika;

create table customer(

customer\_id int(10),

first\_name varchar(10),

last\_name varchar(10),

city varchar(10),

primary key(customer\_id)

);

select \* from customer;

describe customer;

**insert data:**

INSERT INTO customer

Values(25,"Ajay","Sinha","Mumbai"),

(26,"Rohit","Verma","Mumbai"),

(27," Akash "," Sinha "," Delhi "),

(28," Rahul ","Sharma", "Kolkata"),

(29,"Vijay","Rathore","Bangalore"),

(30," Rohit "," Paul "," Chennai ");

Select \* from customer;

**Here we use 26 customer\_id again, so here we will get error.**

**INSERT INTO customer**

**Values(26,"Jaimin"," Paul "," Delhi");**

**select \* from customer;**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 0 | 22 | 15:09:24 | INSERT INTO customer Values(26," Rohit "," Paul "," Delhi") | Error Code: 1062. Duplicate entry '26' for key 'customer.PRIMARY' | 0.000 sec |

**INSERT INTO customer**

**Values(31,"Jaimin"," Paul "," Delhi");**

**select \* from customer;**

**Drop table customer;**

**Select \* from customer;**

**Foreign key:**

**Table – 1 : customer**

|  |  |  |  |
| --- | --- | --- | --- |
| **Customer\_id** | **First\_name** | **Last\_name** | **City\_5** |
| 25 | Ajay | Sinha | 5 |
| 26 | Rohit | Verma | 4 |
| 27 | Akash | Sinha | 2 |
| 28 | Rahul | Sharma | 2 |
| 29 | Vijay | Rathore | 1 |
| 30 | Rohit | Paul | 3 |

**Table – 2 : city**

|  |  |
| --- | --- |
| **Cid** | **City** |
| 1 | Bangalore |
| 2 | Chennai |
| 3 | Delhi |
| 4 | Hyderabad |
| 5 | Kolkata |
| 6 | Mumbai |

**Create table:**

create table city(

cid int(10),

city\_name varchar(20),

primary key(cid)

);

select \* from city;

describe city;

**Insert data:**

INSERT INTO city Values(1,"mumbai"),(2,"delhi"),(3,"kolkata"),

(4,"bangalore"),(5,"chennai"),(6,"hyderabad");

select \* from city;

**create table customer:**

create table customer(

id int(10),

first\_name varchar(10),

last\_name varchar(10),

city\_5 int(10),

primary key(id),

foreign key(city\_5) references city(cid)

);

**Select \* from customer;**

**Note: primary and foreign key are from customer table.**

**Primary key = id**

**Foreign key = city\_5**

**Note: reference city and cid are from city table**

**City = table 2 name**

**cid = primary key**

**Insert data:**

INSERT INTO customer

Values(25,"Ajay","Sinha",5),

(26,"Rohit","Verma",4),

(27," Akash "," Sinha ",2),

(28," Rahul ","Sharma", 2),

(29,"Vijay","Rathore",1),

(30," Rohit "," Paul ",3);

Select \* from customer;

select \* from city;

**now we can join table, with help of join function.**

SELECT \* FROM customer JOIN city

ON customer.city\_5= city.cid;

**SELECT \* FROM city JOIN customer**

**ON city.cid = customer.city\_5;**