Lucky Yadav(20bcs077)

**DBMS** 

Dr.Pramod Yelmewad

# LAB - Report - 2

#### AIM:-

The aim of this project was to get familiar with SQL and creating tables, Primary keys, Foreign Keys and Adding and removing data in Tables.

## **Experiments:-**

### 1. Creating Tables:

create database Assignment; USE Assignment;

create table Assignment.Category\_detais( category\_id numeric(2), category\_name varchar(30));

create table Assignment.Sub\_category\_detais( sub\_category\_id numeric(2), category\_id numeric(2), sub\_category\_name varchar(30));

create table Assignment.Product\_details(
Product\_id numeric(6),
category\_id numeric(2),
sub\_category\_id numeric(2),
product\_name varchar(30));

## 2. Primary Key(without constraint name):-

alter table Assignment.Category\_details

add primary key(category\_id);

## 3. Primary key(with constraint name):-

alter table Assignment.Sub\_Category\_details add constraint cname primary key(sub\_category\_id)

## 4. Primary key And Foreign Key:-

```
alter table Assignment.Sub_Category_details add constraint fk_sub_cat foreign key(category_id) references Category_details(category_id);
```

alter table Assignment.Product\_details add constraint pk\_detail primary key(product\_id);

```
alter table Assignment.Product_details add constraint fk_prod_cat foreign key(category_id) references category_details(category_id), add constraint fk_sub_detail foreign key(sub_category_id) references sub_category_details(sub_category_id);
```

#### 5. Add New Column:-

alter table Assignment.Product\_details add column price numeric(2);

## 6. Modify Datatype:-

alter table Assignment.Product\_details modify column price numeric(6,2);

# 7. Inserting Tuples:-

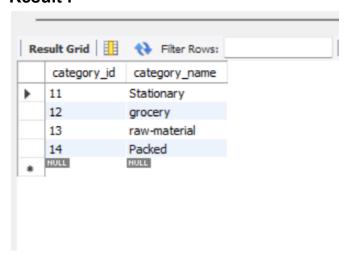
```
insert into Assignment.Category_details( category_id, category_name) values(11,"Stationary"), (12,"grocery"), (13,"raw-material"), (14,"Packed");
```

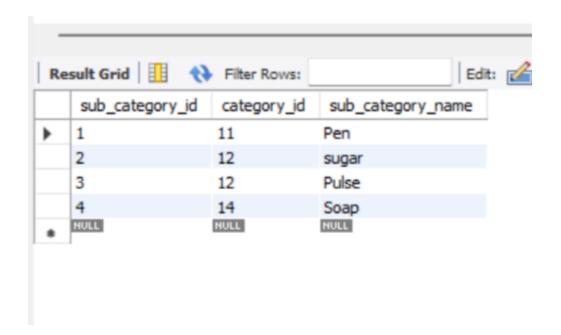
```
insert into Assignment.Sub_category_details(
sub_category_id,
category_id,
sub_category_name )
values(1,11,"Pen"),
(2,12,"sugar"),
(3,12,"Pulse"),
(4,14,"Soap");
insert into Assignment.Product_details(
Product_id,
category_id,
sub_category_id,
product_name,price)
values(01,14,4,"Dove",85),
(02,12,2,"Sugar Cosmetics",45),
(03,12,3,"Tata Sampann",120),
(04,11,1,"Elkos",15);
```

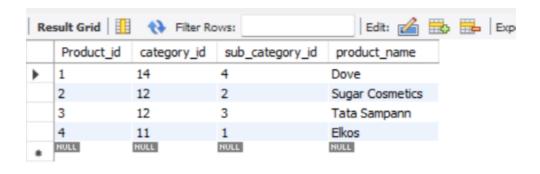
## 8. Drop Column:-

alter table Assignment.Product\_details drop column price;

### Result:-







### Conclusion :-

We created a database with 3 tables and 3 relationships along with 4 tuples in each table. We need to take care of Foreign keys and it's constraints while inserting and deleting data.

We got ample knowledge about relationships and keys associated with it. We know basics like creating tables, attributes, keys, constraints, datatype, adding tuples and dropping tables.

