Assignment No : 28 Postgres DB

1. *Create a table (student) with 3 columns (roll no, name, course).*

postgres=# create table student(roll_no int, student_name text , course_name text,primary key (roll_no)) ;

```
postgres=# select * from student;
 roll_no | student_name | course_name
---------+--------------+-------------
(0 rows)
```

2. *Insert records for 4 students.*

postgres=# insert into student values(1,'akash','python');
postgres=# insert into student values(2,'Ramesh','java'),(5,'Suresh','c++');
postgres=# insert into student values(12,'Aakash','python');

3. *Write a Select query to fetch all the students.*

postgres=# select * from student;

```
postgres=# select * from student ;
 roll_no | student_name | course_name
---------+--------------+-------------
       1 | akash        | python
       2 | Ramesh       | java
       5 | Suresh       | c++
      12 | Aakash       | python
(4 rows)
```

4. *Update the student name of roll no 5 with 'Mohan'*

postgres=# update student set student_name = 'Mohan' where student_name = 'Suresh';
UPDATE 1
postgres=# select * from student;

```
postgres=# update student set student_name = 'Mohan' where student_name = 'Suresh';
UPDATE 1
postgres=# select * from student;
 roll_no | student_name | course_name
---------+--------------+-------------
       1 | akash        | python
       2 | Ramesh       | java
      12 | Aakash       | python
       5 | Mohan        | c++
(4 rows)
```

5. *Delete any student from table with their roll no.*

postgres=# delete from student where roll_no =1;
DELETE 1
postgres=# select * from student;

```
postgres=# delete from student where roll_no =1;
DELETE 1
postgres=# select * from student;
 roll_no | student_name | course_name
---------+--------------+-------------
       2 | Ramesh       | java
      12 | Aakash       | python
       5 | Mohan        | c++
(3 rows)
```

6. *Delete all the data from student table.*

postgres=# delete from student;
DELETE 3
postgres=# select * from student;

```
postgres=# delete from student;
DELETE 3
postgres=# select * from student;
 roll_no | student_name | course_name
---------+--------------+-------------
(0 rows)
```

7. *Drop the student table.*

postgres=# drop table student;

```
postgres=# drop table student;
DROP TABLE
postgres=#
```

8. *Create Courses table (cid, cname) where cid is a primary key and Student table (rollno, name, cid) where rollno is a primary key and cid is a foreign key.*

postgres=# create table Courses(C_id int ,C_name text , primary key (C_id));

```
postgres=# create table Courses(C_id int ,C_name text , primary key (C_id));
CREATE TABLE
postgres=# select * from Courses;
 c_id | c_name
------+--------
(0 rows)
```

postgres=# create table Student (roll_no int ,S_name text ,C_id int ,primary key (roll_no),
postgres(# constraint fk_courses foreign key(C_id) references Courses (C_id));

```
postgres=# create table Student (roll_no int ,S_name text ,C_id int ,primary key (roll_no),
postgres(# constraint fk_courses foreign key(C_id) references Courses (C_id));
CREATE TABLE
postgres=# select * from Student;
 roll_no | s_name | c_id
---------+--------+------
(0 rows)
```

9. *Insert data in both the tables.*

postgres=# insert into Courses values(1,'python'),(2,'c++'),(3,'c'),(4,'java');

```
postgres=# insert into Courses values(1,'python'),(2,'c++'),(3,'c'),(4,'java');
INSERT 0 4
postgres=# select * from Courses ;
 c_id | c_name
------+--------
    1 | python
    2 | c++
    3 | c
    4 | java
(4 rows)
```

postgres=# insert into Student values(101,'Akash',1),(102,'Ram',4), (103,'sam',1),(104,'aalia',2);

```
postgres=#  insert into Student values(101,'Akash',1),(102,'Ram',4),(103,'sam',1),(104,'aalia',2);
INSERT 0 4
postgres=# select * from Student;
 roll_no | s_name | c_id
---------+--------+------
     101 | Akash  |    1
     102 | Ram    |    4
     103 | sam    |    1
     104 | aalia  |    2
(4 rows)
```

10.Select all the students who are doing a specific course, eg. Python.

postgres=# select s_name from Student where c_id=1; (here I assign course id = 1 for python)

```
postgres=# select s_name from Student where c_id=1;
 s_name
--------
 Akash
 sam
(2 rows)
```

Akash and sam both are doing Python course ..