1. Create a table (student) with 3 columns (Rollno, name, course).

Answer: -

```
Type "help" for help.

postgres=# create table students (roll_no int, Name text, course int);
CREATE TABLE
postgres=# select *from students;
 roll_no | name | course
---------+------+--------
(0 rows)
```

2. Insert records for 4 students.

Answer: -

```
postgres=# insert into students values (1, 'Ram', 'Python');
INSERT 0 1
postgres=#  insert into students values (2, 'Raj', 'Java');
INSERT 0 1
postgres=#  insert into students values (3, 'Ramu', 'C');
INSERT 0 1
postgres=# insert into students values (4, 'Ajay', 'C++');
INSERT 0 1
postgres=# select *from students;
 roll_no | name | course
---------+------+--------
       1 | Ram  | Python
       2 | Raj  | Java
       3 | Ramu | C
       4 | Ajay | C++
(4 rows)

postgres=#
```

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

Answer: -

```
postgres=# select roll_no, name, course as Course1 from students;
 roll_no | name | course1
---------+------+---------
       1 | Ram  | Python
       2 | Raj  | Java
       3 | Ramu | C
       4 | Ajay | C++
(4 rows)

postgres=#
```

4. Update the student name of rollno 3 with ‘Mohan’.

Answer: -

```
postgres=# update students set name='Mohan' where roll_no=3;
UPDATE 1
postgres=# select *from students;
 roll_no | name  | course
---------+-------+--------
       1 | Ram   | Python
       2 | Raj   | Java
       4 | Ajay  | C++
       3 | Mohan | C
(4 rows)
```

5. Delete any student from table with their rollno.

Answer: -

```
(4 rows)

postgres=# delete from students where roll_no=3;
DELETE 1
postgres=# select *from students;
 roll_no | name | course
---------+------+--------
       1 | Ram  | Python
       2 | Raj  | Java
       4 | Ajay | C++
(3 rows)
```

6. Delete all the data from student table.

Answer: -

```
postgres=# delete from dept;
DELETE 4
postgres=# select *from dept;
 dept_id | dept_name | loc
---------+-----------+-----
(0 rows)
```

7. Drop the student table.

Answer: -

```
postgres=# drop table emp;
DROP TABLE
postgres=# select *from emp;
ERROR:  relation "emp" does not exist
LINE 1: select *from emp;
                    ^
```

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. 9. Insert data in both the tables.

Answer: -

```
postgres=# create table student (rollno int, Name text, cid int, primary key(cid));
CREATE TABLE
postgres=# create table courses (cid int, cnames text, constraint fk_courses foreign key(cid)references student(cid));
CREATE TABLE
postgres=# select *from student;
 rollno | name | cid
--------+------+-----
(0 rows)


postgres=# select *from courses;
 cid | cnames
-----+--------
(0 rows)


postgres=#
```

9. Insert data in both the tables.

Answer: -

```
postgres=# insert into student values (01, 'Ram', 2), (02, 'Raj', 3), (03, 'Ramu', 4);
INSERT 0 3
postgres=# select *from student;
 rollno | name | cid
--------+------+-----
      1 | Ram  |   2
      2 | Raj  |   3
      3 | Ramu |   4
(3 rows)
```

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

Answer: -

```
LINE 1: select *from studen where cid=4;
                ^
postgres=# select *from student where cid=4;
 rollno | name | cid
--------+------+-----
      3 | Ramu |   4
(1 row)


postgres=#
```