Postgres Exercise

1. Login to postgres
2. Create database hospitalDb;
3. \c hospitalDb
4. Create Table Doctor (doctor\_id integer CONSTRAINT doctor\_pk PRIMARY KEY,doctor\_name varchar(20),department varchar(20));
5. Describe the doctor Table => \d doctor
6. INSERT INTO doctor values(100,’ramesh’,’ent’);
7. INSERT INTO doctor values(101,’suresh’,’dentist’);
8. INSERT INTO doctor values(102,’suresh’,’dentist’) returning \*;
9. INSERT INTO doctor values(103,’shiv’,’ent’);
10. INSERT INTO doctor (doctor\_id,doctor\_name) values(103,’vikas’);
11. INSERT INTO doctor VALUES (104,’sudha’,’heart’), (105,’asif’,’dentist’), (106,’shamir’,’child’);
12. View the Table data => select \* from doctor;
13. Select \* from doctor;
14. Select doctor\_name,department from doctor;
15. select \* from doctor where doctor\_id>102;
16. select \* from doctor where department=’ent’ OR doctor\_name=’ramesh’;
17. select \* from doctor where department=’heart’ AND doctor\_name=’sudha’;
18. select \* from doctor where doctor\_name=’rasif’;
19. select \* from doctor where doctor\_name Like 's%';
20. select \* from doctor where doctor\_id::text Like '1\_%';
21. select \* from doctor where department IN ('ent','heart');
22. select \* from doctor ORDER BY department;
23. select \* from doctor ORDER BY department DESC;
24. delete from doctor where department=’ent’;
25. delete from doctor where department=’ent’ OR doctor\_name=’ramesh’;
26. select DISTINCT department from doctor order by department
27. truncate TABLE doctor
28. Select \* from doctor => **Observe the result**
29. Drop table doctor;
30. \! cls =>Clear the Screen
31. Create Table Doctor (doctor\_id integer CONSTRAINT doctor\_pk PRIMARY KEY,doctor\_name varchar(20),department varchar(20),date\_of\_birth Date);
32. INSERT INTO doctor VALUES (104,’sudha’,’heart’,'1998-02-10'), (105,’asif’,’dentist’,'1997-10-10'), (106,’shamir’,’child’,'1998-11-23');
33. Insert into doctor values( 109,’sumesh’,’ent’, TO\_DATE('2017/02/13', 'YYYY/MM/DD'));
34. Insert into doctor values( 109,’sumesh’,’ent’, TO\_DATE('2017/02/30', 'YYYY/MM/DD')); =>Observe the Error thrown
35. Repeat Command 19 and **Observe the result**
36. ALTER TABLE doctor ADD COLUMN phone\_numbers integer[] ;
37. Update doctor set phone\_numbers='{9830023,9840023}' where doctor\_id =104;
38. ALTER TABLE doctor ADD CONSTRAINT doc\_UQ UNIQUE(doctor\_name);
39. Insert into doctor values( 109,’sumesh’,’ent’,’2020-10-10’);
40. Insert into doctor values( 110,’sumesh’,’ent’,’2020-10-10’); =**>Observe the Result**
41. ALTER TABLE doctor DROP CONSTRAINT doc\_UQ;
42. ALTER table doctor ADD constraint check\_dept check(department in ('ent','heart','child','dentist')); => check constraint
43. insert into doctor values(110,'umesh','skin','1997-10-10');
44. Repeat command 31 and **Observe the result**
45. create table patient(patient\_id integer,patient\_name varchar(20),city varchar(20),doctor\_ref integer, PRIMARY KEY(patient\_id), CONSTRAINT fk\_patient FOREIGN KEY(doctor\_ref) REFERENCES DOCTOR(DOCTOR\_ID) ON DELETE CASCADE);
46. select conname,contype from pg\_catalog.pg\_constraint; => **view all the constraints**
47. insert records to the patient table
48. INSERT INTO patient VALUES (904,’anil’,’chennai’,106), (905,’yash’,’delhi’,104), (906,’shiv’,’chandigarh’,106);
49. select doctor\_name,department,patient\_name,city from doctor INNER JOIN patient ON doctor.doctor\_id=patient.doctor\_ref;
50. select d.doctor\_name,d.department,p.patient\_name,p.city from doctor d INNER JOIN patient p ON d.doctor\_id=p.doctor\_ref;
51. select d.doctor\_name,d.department,p.patient\_name,p.city from doctor d LEFT JOIN patient p ON d.doctor\_id=p.doctor\_ref;
52. select d.doctor\_name,d.department,p.patient\_name,p.city from doctor d RIGHT JOIN patient p ON d.doctor\_id=p.doctor\_ref;
53. select d.doctor\_name,d.department,p.patient\_name,p.city from doctor d LEFT JOIN patient p ON d.doctor\_id=p.doctor\_ref where p.city is NOT NULL;