

## Hospital Database Management System

19.04.2019

## Team:

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## **SQL Queries:**

1. Retrive patient id, nurse id, discharge date of a patient which come after a particular date like '2016-05-03'.

Query:Select \* from in patient where arrival date>='2016-05-03';

```
postgres=# select * from in_patient where arrival_date>= '2016-05-03';

pid | nid | rid | arrival_date | discharge_date | disease

pt_4 | emp_9 | 1002 | 2016-06-07 | 2016-07-10 | heart_attack

pt_4 | emp_9 | 1002 | 2016-07-12 | 2016-08-10 | heart_attack

(2 rows)
```

2. Retrieve name, bill date, tcost, mcost of a particular patient with given patient id like pid='pt\_2'.

Select fname, lname, billdate, mcost, tcost from patient natural join bill where pid='pt\_2';

3. Retrieve name, arrival date, disease, room id, room type of a patient with a particular patient id.

Select fname, Iname, arrival\_date, rid, room type, disease from in\_patient natural join room natural join patient where pid='pt 4';

4. Retrieve id, name, test name, test cost, test date of a patient

Select pid,fname,lname,tname,tcost,testdate from patient natural join hadtest natural join test;

```
postgres=# select pid,fname,lname,tname,tcost,testdate from patient natural join hadtest natural join test;
pid | fname | lname | tname | tcost | testdate

pt_1 | vikas | sharma | X-RAY | 100.00 | 2015-06-07
pt_2 | shivam | nigam | ENDOSCOPY | 3000.00 | 2016-06-08
(2 rows)
```

5. Retrieve details of a patient and doctor assigned to that patient.

Select pid,doc\_id,fname,mname,lname,email from (select pid,doc\_id from patient natural join doctor) as a,(select emp\_id,fname,mname,lname,email from employee) as b where a.doc\_id=b.emp\_id;

```
postgres=# select pid,doc_id,fname,mname,lname,email from
(select pid,doc_id from patient natural join doctor) as a
(select emp_id,fname,mname,lname,email from employee) as b
where a.doc id=b.emp id;
     | doc id |
                 fname
                         mname
                                                   email
       emp 1
                vikas
                                   sharma
                                            vikas61999@gmail.com
       emp_1
                vikas
                                   sharma
                                            vikas61999@gmail.com
                           k
                                   nigam
                                            shivam@gmail.com
pt 6
       emp_2
                shivam
                                            shivam@gmail.com
                shivam
                                   nigam
       emp 2
       emp_3
                bhavesh
                                   patel
                                            bhavesh69@gmail.com
       emp 4
                Dev
                           kumar
                                   Gorai
                                            devdk@gmail.com
6 rows)
```

6. Retrieve details of a patient, doctor assigned to that patient with a particular disease like 'accident'.

Select fname, lname, doc\_id, disease from patient natural join in\_patient where disease='accident';

7. Retrieve details of a doctor like their name, qualification etc.

Select fname,mname,lname,qualification from doctor,(select \* from employee where emptype='doctor') as b where doctor.doc id=b.emp id;

8. Retrive details of a patient and medicine assigned to a particular particular patient.

Select distinct pid, fname, lname, mid, mname, mcost from patient natural join had\_medicine natural join medicine;

9. Retrive details of a patient whose age is greater than 18.

Select \* from (select fname||' '||Iname as name, Extract(YEAR FROM age('2019-04-23',dob)) as Age from patient) as e where e.age>=18;

10. Count the number of rooms is currently available.

Select count(available) from room where available=True group by available;

```
postgres=# select count(available) from room where available=True group by available;
count
------
9
(1 row)
```

11. Name of the patients who are admitted yet.

Select fname||' '||Iname as name, email from patient natural join (select pid from in\_patient where discharge\_date IS NULL) as r;

12. Name of nurses who are assigned to a particular type of room.

select distinct fname||' '||mname||' '||lname as name from employee natural join (select nid from room natural join (select \* from in\_patient natural join nurse) as e where roomtype='VIP SUITE') as f where employee.emp\_id=f.nid;

```
postgres=# select distinct fname||' '||mname||' '||lname as name
from employee natural join (select nid from room natural join
(select * from in_patient natural join nurse) as e where roomtype='VIP SUITE')
as f where employee.emp_id=f.nid;
name

deepika k gupta
neha k gupta
(2 rows)
```