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| --- | --- |
| **Doctor Table** | **Patient Table** |
| |  |  | | --- | --- | | **Column** | **Data type and constraints** | | doc\_id | Char(9), PRIMARY KEY | | Fname | Char(20) | | Lname | Char(25) | | specialty | Char(25) | | Phone | Char(10) | | |  |  | | --- | --- | | **Column** | **Data type and constraints** | | pat\_id | Char(9), PRIMARY KEY | | Fname | Char(20) | | Lname | Char(25) | | insurance\_company | Char(25), | | Phone | Char(10) | |

**Case table**

|  |  |
| --- | --- |
| **Column** | **Data type and constraints** |
| admission\_date | Datetime, PRIMARY KEY (composite) |
| pat\_id | Char(9), PRIMARY KEY (composite), FOREIGN KEY to patient.pat\_id |
| Doc\_id | Char(9), FOREIGN KEY to doctor.doc\_id |
| Diagnosis | Varchar(150) |

1. Find all the patients who are treated in the first week of this month.
2. Find all the doctors who have more than 3 admissions today.

select f\_name,l\_name,count(pat\_id) from doctor inner join case on d.doc\_id=c.doc\_id and admission\_date=systdate and groupby f\_name,l\_name having count(pat\_id)>3

1. Find the patient name (first,last) who got admitted today where the doctor is ‘TIM’

Select f\_name,l\_name from doctor d inner join case c on d.doc\_id=c.doc\_id inner join patient p on p.patient\_id=c.patient\_id and admission\_date=sysdate and d.fname=’tim’;

1. Find the Doctors whose phone numbers were not update (phone number is null)

select f\_name,l\_name from doctor where phone is Null;

1. Display the doctors whose specialty is same as Doctor ‘TIM’

select f\_name,l\_name from doctors where specality=(select speciality from doctor where f\_name like'TIM');

1. Find out the number of cases monthly wise for the current year.
2. Select count(pat\_id),month(damssion\_date) from case where year(amission\_date)=year(curdate) group by month(admission\_date);
3. Display the doctors who don’t have any cases registered this week
4. Display Doctor Name, Patient Name, Diagnosis for all the admissions which happened on 1st of Jan this year
5. Display Doctor Name, patient count based on the cases registered in the hospital.

select Fname,lname,count(pat\_id) from doctor join case on d.doc\_id=c.doc\_id group by diagnosis

1. Display the Patient\_name, phone, insurance company, insurance code (first 3 characters of insurance company)

select f\_name,l\_name,phone,insurance\_company,substr(insurance\_company,1,3) as insurance\_code from patient;

1. Create a view which gives the doctors whose specialty is ‘ORTHO’ and call it as ortho\_doctors