**Healthcare – (Hospital)**

**Doctor table**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Doc\_id** | **fname** | **lname** | **speciality** | **phone** |
| **D1** | **arun** | **patel** | **ortho** | 9675093453 |
| **D2** | **tim** | **patil** | **general** | 9674560453 |
| **D3** | **abhay** | **sharma** | **heart** | 9675993453 |

**Patient**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Pat\_id** | **fname** | **lname** | **Insurance\_comp** | **phone** |
| **P1** | **akul** | **shankar** | **Y** | 9148752347 |
| **P2** | **aman** | **shetty** | **Y** | 9512896317 |
| **P3** | **ajay** | **shetty** | **N** | 9987321564 |
| **P4** | **akshay** | **pandit** | **Y** | 9112255889 |
| **P5** | **adi** | **shankar** | **N** | 9177788821 |

**Case**

|  |  |  |  |
| --- | --- | --- | --- |
| **Admission\_date** | **Pat\_id** | **Doc\_id** | **diagnosis** |
| 10-jun-16 | **P1** | **D1** | **fracture** |
| 03-may-16 | **P2** | **D1** | **Bone cancer** |
| 17-apr-16 | **P2** | **D2** | **Fever** |
| 28-oct-15 | **P3** | **D2** | **Cough** |
| 10-jun-16 | **P3** | **D1** | **fracture** |
| 1-jan-16 | **P3** | **D1** | **bone cramp** |
| 11-sep-15 | **P3** | **D3** | **Heart attack** |
| 30-nov-15 | **P4** | **D3** | **Heart hole** |
| 10-nov-15 | **P4** | **D3** | **angioplasty** |
| 1-jan-16 | **P5** | **D3** | **angiogram** |

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

**Patient table**

|  |  |
| --- | --- |
| **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 the patient name (first,last) who got admitted today where the doctor is ‘TIM’
3. Find the Doctors whose phone numbers were not update (phone number is null)
4. Display the doctors whose specialty is same as Doctor ‘TIM’
5. Display the doctors who don’t have any cases registered this week
6. Display Doctor Name, Patient Name, Diagnosis for all the admissions which happened on 1st of Jan this year
7. Display who are all patients take an treatment this month
8. Display the doctor who treat for Heart attack
9. Display how many patients consulated doctor abhay
10. Display patients who got admitted yesterday and who treated them
11. Doctor wise Patient count
12. Which doctor treated more than 3 patients today

HealthCare

create table doctor

(doc\_id varchar2(4) primary key,

fname varchar2(20),

lname varchar2(20),

specialty varchar2(20),

phone number(10)

);

create table patient

(pat\_id varchar2(4) primary key,

fname varchar2(20),

lname varchar2(20),

ins\_comp varchar2(20),

phone number(10)

);

create table case

(admission\_date date,

pat\_id varchar2(4) references patient(pat\_id),

doc\_id varchar2(4) references doctor(doc\_id),

diagnosis varchar2(40),

constraint con\_cpk primary key(admission\_date,pat\_id)

);

insert all

into doctor values('d1','arun','patel','ortho',9675093453)

into doctor values('d2','tim','patil','general',9674560453)

into doctor values('d3','abhay','sharma','heart',9675993453)

select \* from dual;

insert all

into patient values('p1','akul','shankar','y',9148752347)

into patient values('p2','aman','shetty','y',9512896317)

into patient values('p3','ajay','shetty','n',9987321564)

into patient values('p4','akshay','pandit','y',9112255889)

into patient values('p5','adi','shankar','n',9177788821)

select \* from dual;

insert all

into case values('10-jun-16','p1','d1','fracture')

into case values('03-may-16','p2','d1','bone cancer')

into case values('17-apr-16','p2','d2','fever')

into case values('28-oct-15','p3','d2','cough')

into case values('10-jun-16','p3','d1','fracture')

into case values('1-jan-16','p3','d1','bone cramp')

into case values('11-sep-15','p3','d3','heart attack')

into case values('30-nov-15','p4','d3','heart hole')

into case values('10-nov-15','p4','d3','angioplasty')

into case values('1-jan-16','p5,'d3','angiogram')

select \* from dual;