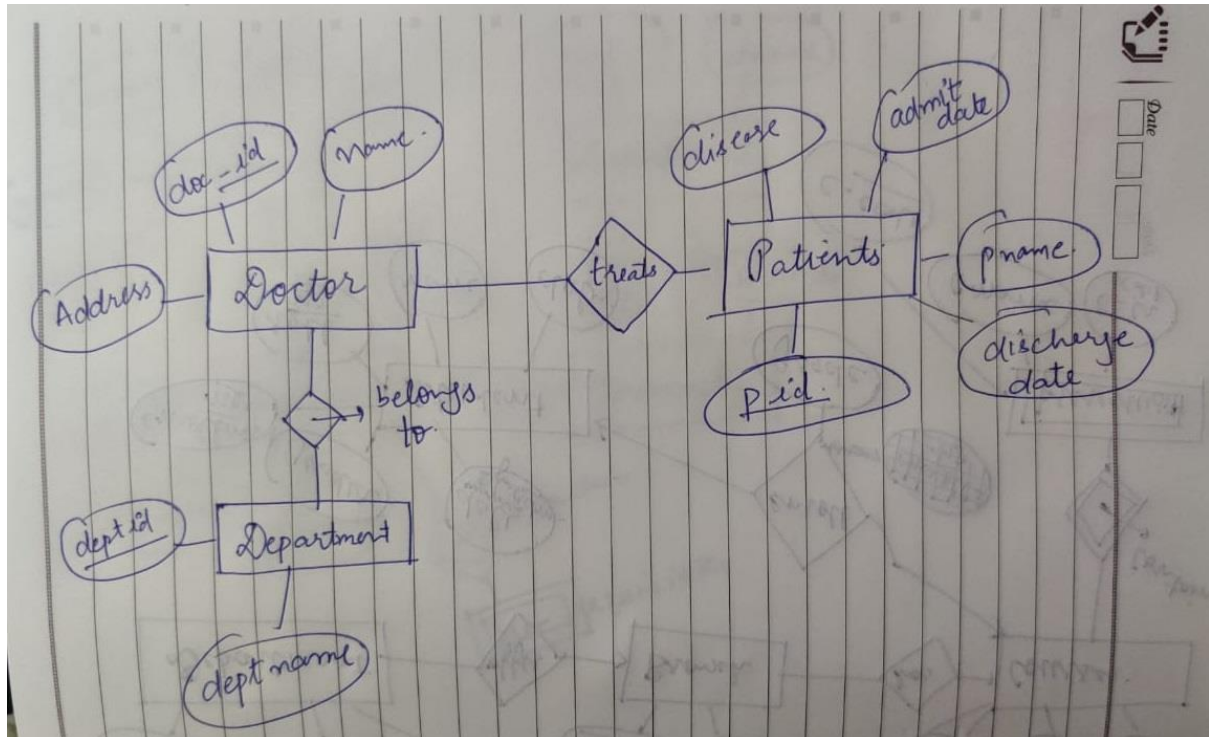


Assignment-SQL

ER Diagram



Values in Tables

```
mysql> select * from doctor;
```

DOC_ID	NAME	Address
1	Raman	California
2	Rohit	Amsterdam
3	Falak	Delhi
4	Vidyut	Brussels
5	Rudar	Panipat

5 rows in set (0.00 sec)

```
mysql> select * from doc_dept;
```

DOC_ID	D_ID
1	2
2	3
3	4
4	5
5	1

5 rows in set (0.00 sec)

```
mysql> select * from patient;
```

P_ID	P_NAME	DISEASE	ADMIT_DATE	DISCHARGE_DATE
1	Sudhir	HyperTension	2004-06-29	NULL
2	Sid	Coma	2019-08-29	2020-08-20
3	Sam	Multiple Fractures	2012-12-12	NULL
4	Shashwat	Fever	2019-08-01	2020-08-14
5	Sanyam	Allergy	2019-08-01	2020-08-09

5 rows in set (0.01 sec)

```
mysql> select * from treatment;
```

DOC_ID	P_ID
1	4
2	3
3	2
4	1
1	5

```
5 rows in set (0.01 sec)
```

```
mysql> select * from department;
```

D_ID	D_NAME
1	Cardio
2	Neuro
3	Medicine
4	Gastro
5	Gyno

```
5 rows in set (0.00 sec)
```

Ques:-1 Create a database for the Hospital Management System based on your ER. Create appropriate tables & relationships.

Solution:-

```
create table doctor(DOC_ID integer PRIMARY KEY,NAME varchar(30),Address varchar(50));
```

```
insert into doctor values(1,"Raman","California");
```

```
insert into doctor values(2,"Rohit","Amsterdam");
```

```
insert into doctor values(3,"Falak","Delhi");
```

```
insert into doctor values(4,"Vidyut","Brussels");
```

```
insert into doctor values(5,"Rudar","Panipat");
```

```
select * from doctor;
```

```
create table patient(P_ID number PRIMARY KEY,P_NAME varchar(30),DISEASE
varchar(50),ADMIT_DATE date,DISCHARGE_DATE date);
```

```
insert into patient(P_ID,P_NAME,DISEASE,ADMIT_DATE)
values(1,"Sudhir","HyperTension","04-06-29");
```

```
insert into patient(P_ID,P_NAME,DISEASE,ADMIT_DATE,DISCHARGE_DATE)
values(2,"Sid","Coma","19-08-29","20-08-20");
```

```
insert into patient(P_ID,P_NAME,DISEASE,ADMIT_DATE) values(3,"Sam","Multiple
Fractures","12-12-12");
```

```
insert into patient(P_ID,P_NAME,DISEASE,ADMIT_DATE,DISCHARGE_DATE)
values(4,"Shashwat","Fever","19-08-01","20-08-14");
```

```
insert into patient(P_ID,P_NAME,DISEASE,ADMIT_DATE,DISCHARGE_DATE)
values(5,"Sanyam","Allergy","19-08-01","20-08-09");
```

```
select * from patient;
```

```
create table treatment(DOC_ID number ,P_ID number,Foreign Key(DOC_ID) references
doctor(DOC_ID),Foreign Key(P_ID) references Patient(P_ID));
```

```
insert into treatment values(1,5);
```

```
insert into treatment values(1,4);
```

```
insert into treatment values(2,3);
```

```
insert into treatment values(3,2);
```

```
insert into treatment values(4,1);
```

```
create table department(D_ID Integer primary key,D_NAME varchar(50));
```

```
insert into department values(1,"Cardio");
```

```
insert into department values(2,"Neuro");
```

```
insert into department values(3,"Medicine");
```

```
insert into department values(4,"Gastro");
```

```
insert into department values(5,"Gyno");
```

```
create table doc_dept(DOC_ID integer,D_ID integer,foreign key(doc_id) references
doctor(DOC_ID),foreign key(D_ID) references department(D_ID));
```

```
insert into doc_dept values(1,2);
```

```
insert into doc_dept values(2,3);
```

```
insert into doc_dept values(3,4);
```

```
insert into doc_dept values(4,5);
```

```
insert into doc_dept values(5,1);
```

Ques:-2 Design a query to provide a list of doctors, which department they belong to and patients treated by them (if any).

Solution:

```
select doc.name,dept.d_name,p.p_name
from doctor doc
inner join doc_dept d
on doc.doc_id=d.doc_id
inner join department dept
on d.d_id=dept.d_id
left join treatment t
on t.doc_id=doc.doc_id
left join patient p
on p.p_id=t.p_id;
```

Output:-

name	d_name	p_name
Rudar	Cardio	NULL
Raman	Neuro	Shashwat
Raman	Neuro	Sanyam
Rohit	Medicine	Sam
Falak	Gastro	Sid
Vidyut	Gyno	Sudhir

6 rows in set (0.00 sec)

Ques 3. Query to provide the count of patients discharged per day in the last week.

Solution:-

```
select discharge_date,count(p_id)
from patient
where
discharge_date>DATE_SUB( CURDATE(), INTERVAL 1 Week)
and
discharge_date< curdate()
group by
discharge_date;
```

Output:

```
+-----+-----+
| discharge_date | count(p_id) |
+-----+-----+
| 2020-08-14     | 1           |
| 2020-08-09     | 1           |
+-----+-----+
2 rows in set (0.00 sec)
```

I could not understand how to put all days from the previous week.

