

SQL CONCEPTS MORNING ASSIGNMENT

Question 1:

**Create a database for the Hospital Management System based on your ER.
Create appropriate tables & relationships.**

Ans)

```
create schema hospital_management;
```

```
create table doctor(  
  doctor_id int not null,  
  doc_name varchar(200) not null,  
  department varchar(200) not null,  
  primary key(doctor_id);  
);
```

```
create table doc_qualification(  
  doctor_id int not null,  
  qualification varchar(200) not null,  
  primary key(doctor_id,qualification),  
  foreign key(doctor_id) references doctor(doctor_id)  
);
```

```
create table patient(  
  patient_id int not null,  
  p_name varchar(200) not null,  
  age int ,  
  doctor_id int,  
  sickness varchar(500),  
  checked_in_on date,
```

```
discharged_on date,  
primary key(patient_id),  
foreign key (doctor_id) references doctor (doctor_id)  
);
```

```
create table medicine(  
med_id int not null,  
med_name varchar(200),  
price int ,  
primary key (med_id)  
);
```

```
create table prescription(  
patient_id int not null,  
med_id int not null,  
foreign key(patient_id) references patient(patient_id),  
foreign key( med_id) references medicine(med_id)  
);
```

```
create table room(  
room_id int not null,  
room_type varchar(20) ,  
price_per_day int,  
primary key(room_id)  
);
```

```
create table occupancy (  
room_id int not null,  
patient_id int not null,
```

```
foreign key(room_id) references room(room_id),
foreign key(patient_id) references patient(patient_id)
);
```

```
insert into doctor values (101,"Dr.Praveen","Cardeology");
```

```
insert into doctor values (102, "Dr.Nithin" , "Neurology");
```

```
insert into patient values (1301, "vamsi", null, 102, "Spinal Problem",
null,'2020-07-18');
```

```
insert into patient values (1302, "vamsi", 62, 101, "Heart Pain", '2020-07-
15','2020-07-17');
```

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

Ans:

```
select doc_name, department, p_name
```

```
from doctor left join patient on
```

```
doctor.doctor_id=patient.doctor_id
```

```
order by p_name desc;
```

Result Grid			
		Filter Rows:	Export: Wrap
	doc_name	department	p_name
	Dr.Nithin	Neurology	vamsi
	Dr. Bindu	Gastroenterology	Sneha
▶	Dr. Uttej	Cardeology	Raja
	Dr. Monika	Gynecology	Priya
	Dr. Sumanth	Cardeology	Naveen
	Dr. Monika	Gynecology	Jaideep
	Dr.Nithin	Neurology	Aditi
	Dr. Jeevan	Oncology	NULL
	Dr. Vandana	Urology	NULL
	Dr. Dhanun...	Neurology	NULL

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

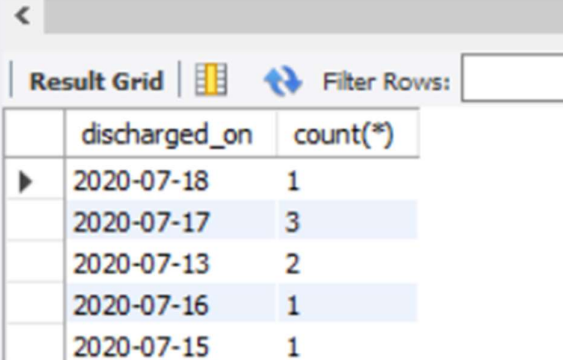
Ans)

```
select discharged_on ,count(*)
```

```
from patient
```

```
where patient.discharged_on between '2020-07-12' and '2020-07-18'
```

```
group by patient.discharged_on
```



The screenshot shows a database interface with a 'Result Grid' tab. The grid displays the results of a query, showing the date of discharge and the count of patients for each day. The data is as follows:

	discharged_on	count(*)
▶	2020-07-18	1
	2020-07-17	3
	2020-07-13	2
	2020-07-16	1
	2020-07-15	1