

HIMS SQL Queries

Complex Queries:

1. A patient's attendant can ask enquiry about the patient from the receptionist.

```
select patientMedical.PatientID, patientMedical.DoctorID,  
Doctor.Name, Doctor.Speciality, patientMedical.Indoor_Outdoor,  
patientMedical.Diagnosis_Disease, patientRoom.RoomNo  
from patientMedical, patientInfo, doctor, patientRoom  
where      patientInfo.Name = "Patient50"  
           and  
           patientInfo.DateofVisit = "2002-11-23"  
           and patientInfo.PatientID = patientMedical.PatientID  
           and patientMedical.DoctorID = doctor.DoctorID  
           and patientMedical.PatientID = patientRoom.PatientID;
```

2. Average no. of patients per month.

```
select avg(NoofPatients)  
from  
(  
    select count(patientID) as NoofPatients, DateofVisit  
    from patientInfo  
    group by MONTH(DateofVisit), YEAR(DateofVisit)  
) as T;
```

3. The months of the year having the highest no. of patients.

```
drop table T1;
```

```
create table T1  
select count(PatientID) as NoofPatients, MONTH(DateofVisit) as Month  
from patientInfo  
group by MONTH(DateofVisit);
```

```
select * from T1 where (  
    select max(NoofPatients) from T1  
) = T1.NoofPatients;
```

4. Given a particular month, which disease had the most cases?

```
drop table T1;
```

```
create table T1  
select count(patientInfo.PatientID) as NoofPatients, DateofVisit,  
Diagnosis_Disease  
from patientInfo, PatientMedical  
where patientInfo.PatientID = patientMedical.PatientID  
and MONTH(DateofVisit) = 7  
group by MONTH(DateofVisit), Diagnosis_Disease;
```

```
select * from T1 where (  
    select max(NoofPatients) from T1  
) = T1.NoofPatients;
```

5. Due to some co-morbidity, the patient is advised to visit another doctor in the hospital. So, addition of a doctor (Update query).

```
select DoctorID from patientMedical where PatientID = 1;
```

```
//new doctorID from java
```

```
update patientMedical  
set DoctorID = newDoctorID  
where PatientID = 1;
```

```
select * from patientMedical where PatientID = 1;
```

General Queries:

6. No. of patients admitted in the hospital of a particular disease/speciality.

```
select count(patientID) as NoofPatients
from patientMedical
group by Diagnosis_Disease
having Diagnosis_Disease = "cold";
```

7. No. of outdoor and indoor patients in a particular month.

```
select Indoor_Outdoor, count(Indoor_Outdoor) as NoofPatients,
MONTH(DateofVisit) as Month
from patientMedical, patientInfo
where patientMedical.PatientID = patientInfo.PatientID
      and MONTH(DateofVisit) = 7
group by Indoor_Outdoor, MONTH(DateofVisit);
```

8. The patient's medical history - new patient or old patient?

```
select patientInfo.Name, count(receptionist.PatientID) as NoofVisits
from receptionist, patientInfo
where receptionist.PatientID = patientInfo.PatientID and
      patientInfo.Name = "Patient10"
group by receptionist.PatientID;
```

9. Change in treatment of the patient due to some side effects of a medicine or due to some complications (Update query).

```
update patientMedical
set Treatment_Test_Medicine = "newTreatment"
where PatientID = 1;

select * from patientMedical where PatientID = 1;
```

10. Total no. of beds in the hospital.

```
select sum(NoofBeds) as TotalNoofBeds from Room;
```

11. List of all the patients admitted in the hospital sorted in non-increasing order by Date of Visit.

```
select * from patientInfo order by DateofVisit desc;
```
