

CS3400 Database Systems

Quiz 3 - 11th Dec 2006

A. For the questions given below, write the corresponding sql query statements. The primary keys for each of the relations are underlined.

Patient (int PatientId, varchar(20) PatientName, varchar(1) Gender, int Age ,varchar(20) City)

PatientHistory (int PatientId,date JoiningDate, int DoctorId, int NurseId, date Leaving_Date, int Ward)

Dept (int DeptId, varchar(20) DeptName,int HOD, int No_of_Staff)

Employee (int EmpId, varchar(20) EmpName,int Salary,varchar(20) Designation, int DeptId)
where Designation is either "Doctor" or "Nurse".

The foreign key, primary key relationships:

PatientHistory(DoctorId) references Employee(EmpId)

PatientHistory(NurseId) references Employee(EmpId)

PatientHistory(PatientId) references Patient(PatientId)

Employee(DeptId) references Dept(DeptId)

Dept(HOD) references Employee(EmpId)

1. Select all current patients who are under doctors of department `DeptId=3'. List the Patient Id and Joining Date of all such patients.
2. Delete all nurses whose salary is less than 10000.
3. List the departments (DeptId, DeptName) where the total salary of nurses exceeds 50,000 and total salary of doctors exceeds one lakh. Give the EmpId and department number of such employees.
4. Find the doctors not treating any current patients. Give the EmpId and Doctor Name.
5. Increase the salary of all doctors in DeptId=3 by 20%.
6. Update the ward number of all Patients in ward 5 to the ward with minimum number of patients so far.

7. Delete all patient records whose Age is greater than 150.

8. Find all current patients who have always been treated by HOD's of some department. Give the PatientId, PatientName and City. Hint: Leaving_Date of current patients is set to NULL.