

CS2801T - Database Management System Lab

Exercise with answers:

Insert values into the relations created based on the data mentioned and write queries for the following questions.

- Get the EmpId, Name of the senior-most professors.
 Select p.EmpId, p.Name from Professors p where p.StartYear<= ALL (select distinct StartYear from Professor);
- Get the RollNo and Name of the students whose gender is same as their advisor's. Select s.RollNo, s.Name from Student s where s.Sex = ALL (select f.Sex from Professor f where f.EmpId = s.Advisor);
- Get the EmpId and Name of professors who advise at least one women student. Select f.EmpId, f.Name from Professor f where exists (select s.RollNo from Student s where s.Advisor = f.EmpId and s.Sex = 'F');
- Obtain the department Id and Name of departments that do not offer any 4 credit courses. Select d.DeptId, d.Name from Department d where NOT exists (select CourseId from course c where c.DeptNo = d.DeptId and c.Credits = 4);
- Determine the students who have obtained either 'S' or 'A' grade in all the pre-requisite courses of a specific course (CS7890). It is known that CS7890 has at least one pre-requisite.
 - Select s.RollNo, s.name from Student s where not exists (select * from Prerequisite p where p.CourseId = "CS7890" and not exists (select * from Enrollment e where e.CourseId = p.PreReqCourse and e.RollNo = s.RollNo and e.Grade = "S" or e.Grade = "A"));



- Obtain the Roll Numbers of students who are currently enrolled for either CS2300 or CS2320 courses.
 - (Select RollNo from Enrollment where CourseId = 'CS2300' and Sem = 'odd' and Year = '2019') UNION (select RollNo from Enrollment where CourseId = 'CS2320' and Sem = 'odd' and Year = '2019');
- Obtain the Roll Numbers of students who are currently enrolled for both CS2320 and CS232 courses.
 - (select RollNo from Enrollment where CourseId = 'CS2300' and Sem = 'odd' and Year = '2019') INTERSECT (select RollNo from Enrollment where CourseId = 'CS2320' and Sem = 'odd' and Year = '2019';
- Obtain the Roll Numbers of students who are currently not enrolled for CS2300 course. (select RollNo from Enrollment where Sem='odd' and Year = '2019') EXCEPT (select RollNo from Enrollment where CourseId = 'CS2300' and Sem = 'odd' and Year = '2019');