1. Based on *Student database*, you are expected to implement each query that carries out the operations given below.

**Faculty(FacultyID, Name, DeanRegNo)**

**Department(DepartmentID, Name, HeadRegNo, FacultyNo)**

**Student(StudentNo, Name, Surname, Sex, DateofBirth, EduPeriod, DepartmentNo)**

**Instructor(InstructorRegNo, Name, Surname, Sex, Position, DepartmentNo)**

**Course(CourseID, CourseName, THour, PHour, Credit, DepartmentNo)**

**Section(CourseID, SectionID, Inst\_inCharge)**

**Stu\_Course(StudentNo, CourseID, SectionID, MO, Grade)**

1. Show the students’ number, name, and surname whose department number is 1 and that have not taken any course offered by department 3.

*select StudentNo, StudentName,StudentSurname from student where student.department\_DepartmentID=1 and StudentNo not in (select student\_course.student\_StudentNo from course, student\_course where course.CourseID=student\_course.course\_CourseID and course.department\_DepartmentID=3)*

1. Find out id and name of the departments having at least one student and offering no course.

*select DepartmentID, DepartmentName from department where (select count(\*) from student where student.department\_DepartmentID =department.DepartmentID)>0 and (select count(\*) from course where course.department\_DepartmentID=department.DepartmentID)=0*

1. Find out the departments’ id, name, and research assistant count having at least two research assistants (abbreviated as *RA* in database).

*select DepartmentID, DepartmentName, count(\*) as RA\_Count from department, ınstructor where department.DepartmentID=ınstructor.department\_DepartmentID and ınstructor.InstructorPosition="RA" group by department.DepartmentID having count(\*)>=2*

1. Find out the students’ number, name, and surname whose total credit is greater than 10.

*select StudentNo,StudentName,StudentSurname from student where StudentNo in (select student\_StudentNo From student\_course, course where student\_course.course\_CourseID=course.CourseID group by student\_course.student\_StudentNo having sum(all course.CourseCredit)>10)*