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Daffodil International University

Department of Computer Science & Engineering

Quiz-02, Semester: Summer 2025, Batch: 65_O

Course Code: CSE311, Course Title: Database Management System

Time: 30 minutes **Marks: 15**

Name :	ID :

1.		**Consider the following schema for a university management system:** Courses (Course_id , Course_name, Credits, Dept_id) Departments (Department_id , Department_name, Location) Faculty (FID, Faculty_name, Salary, Dept_id) Students (SID , Name, Major, Year, GPA) Enrollments (Enrollment_id , Course_id, Student_id, Semester, Grade) Advisors (Advisor_id , Faculty_id, Student_id) ResearchProjects (Project_id , Project_name, Dept_id, Supervisor_id)		**CO 1**
		Answer the following questions using WITHOUT Join operations (Write SQL query)		
	a)	Find all students advised by specific faculty members with FID from 101 and 105.	**[1]**	
	b)	Find the total number of students.	**[1]**	
	c)	Find the average GPA of students in their final year.	**[1]**	
	d)	Find the department with the maximum number of courses.	**[1]**	
	e)	Find the average number of credits across all courses.	**[1]**	
	f)	List names of students who have GPA above the average GPA.	**[2]**	
	g)	Find faculty members whose salary is below the average salary.	**[2]**	
	h)	Find students who are not enrolled in any course.	**[2]**	
	i)	Find course IDs of courses that no student has enrolled in.	**[2]**	
	j)	Find departments that offer the maximum number of research projects.	**[2]**	

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