

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 :
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1.	Consider the following schema for a university management system: Courses (<u>Course_id</u> , Course_name, Credits, Dept_id) Departments (<u>Department_id</u> , Department_name, Location) Faculty (<u>FID</u> , Faculty_name, Salary, Dept_id) Students (<u>SID</u> , Name, Major, Year, GPA) Enrollments (<u>Enrollment_id</u> , Course_id, Student_id, Semester, Grade) Advisors (<u>Advisor_id</u> , Faculty_id, Student_id) ResearchProjects (<u>Project_id</u> , Project_name, Dept_id, Supervisor_id)		C O 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]	

