

COMSATS University Islamabad Lahore Campus

Final-Term LAB Examination - Fall 2023

Course Title:	Database Systems I Khagan zaheer				Course Code	: CSC371	CreditHours(3+1)
Course Instructor/s:					Programme	BS Software I	BS Software Engineering
Semester:	-	Batch:		Section:	A	Date:	22-12-23
Time Allowed:	90 Minutes				Maximum Marks:		s: 50
Student's Name:			,		Reg.		

Important Instructions / Guidelines:

- Answer all questions.
- · Write your answers concisely.
- You may use SQL commands to retrieve the required information from the given tables.
- Ensure your SQL commands are syntactically correct.
- The tables used for this examination are provided below.
- Save your script file with your full registration number. And make sure it must be submitted within 90 minutes.

Question 1:

{Blooms Taxonomy Learning Level --Applying[CLO5]

[Marks50]

- I. Write an SQL query to retrieve the first and last names of employees who are Analysts and have a salary greater than 60000.
- II. Design a new table named Customers with attributes: CustomerID (Primary Key), FirstName, LastName, Email, and PhoneNumber. Provide a sample record.
- III. Write an SQL query to find the project with the earliest start date, displaying the ProjectID, ProjectName, and StartDate.
- IV. Create a stored procedure named GetTaskDetails that takes a TaskID as input and returns the details (TaskDescription, HoursWorked) of the corresponding task from the Tasks table.
 - V. Write an SQL query to concatenate the FirstName and LastName columns of employees and display them as a new column named FullName.
- VI. Write an SQL query to calculate the average HoursWorked for all tasks.
- VII. Insert a new employee with EmployeeID = 4, FirstName = 'Emma', LastName = 'Brown', Age = 22, Position = 'Intern' into the Employees table.
- VIII. Write an SQL query to retrieve the ProjectName, TaskDescription, and HoursWorked for each task, including the corresponding project name.
 - IX. Write an SQL query to find the project with the highest total hours worked on tasks, displaying the ProjectID, ProjectName, and total HoursWorked.
 - X. Write an SQL query to update the EndDate of ProjectA to '2023-11-15'.

Note:

Upload your script file (queries only with numbers) on google classroom named as: "Final – Lab – SP22-BSE-A"

Best of Luck

[PTO for reference tables]

Tables:

Employees Table:

EmployeelD	FirstName	LastName	Age	Position .	Salarry
1	Sara	Johnson	28	Manager	80000
2	John	Smith	25	Developer	65000
3	Alice	Davis	30	Analyst	55000

Projects Table:

Projecti	D ProjectName	StartiDate	EndDate
201	ProjectA	2023-07-01	2023-12-31
202	ProjectB	2023-08-15	2024-02-29
203	ProjectC	2023-06-10	2023-11-20

Tasks Table:

Taski	D Projecti	D Employe	elD TaskDescription	HoursWorked
1	201	1	Design UI	15
2	201	2	Develop Backend	25
3	202	3	Data Analysis	20