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National University of Computer and Emerging Sciences, Lahore Campus



Course: Program: Duration: Quiz Date:

Quiz Date: Section: Name Data Base (Lab)
BS (Computer Science)
2.5 Hrs
12-June-23

BCS-4E, BCS-4F, BCS-4G, BCS-4H, BCS-4J, BSE-6A, BSE-6B [SLOT 1]

Course Code: CS-2005 Semester: Spring 2023 Total Marks: Weight 55 _40_

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Instruction/Notes:

- Use the schema and final exam from the folder: \cactus1\Xcon\Spring 2023\Samman Ashra\Database Lab Final.
- 2. Use of internet is not allowed.
- 3. Submission Format:

a. Make a folder with your Registration No and paste TWO files (Word & SQL) in it.

 Word File: Queries should be pasted in this given file along with their screenshots of running queries (these are must otherwise marks will be deducted). Submit this word file named as (L13-4632.docx).

c. SOL File: It includes all your sql queries of the given questions. (e.g; yourName.sql)

- Submit your final paper in the given folder. \\cactus 1\Xeon\Spring 2023\Samman Ashraf\Database Final Submissions\Your Section (e.g; ABC-4K).
- 5. Attempt all questions carefully. Your marking is Binary. Please Note SS is Screenshots.

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Use CompanyDB for the paper

Question no 1:

[5 (1.5 SS) + 5 (1.5 SS)= 10 Marks]

- a) Write a SQL query to retrieve the total hours worked by employees in each department, along with the department name and the employee with the highest hours in each department.
- b) Write a SQL query which retrieves the names of employees and their corresponding department names for employees who have worked on all tasks in their department. (Nested Query)

Question no 2:

[7.5 (1.5 SS) + 7.5 (1.5 SS)= 15 Marks]

- a) Create a view named "EmployeeSummary" that displays the top 2 employee name, department name, and the total number of hours worked by each employee. Include only those employees who have worked at least 20 hours in total. Order the results in descending order of the total number of hours worked. Create a view named "EmployeeSummary" that displays the top 2 employee name, department name, and the total number of hours worked by each employee. Include only those employees who have worked at least 20 hours in total. Order the results in descending order of the total number of hours worked.
- b) Create a view "TimeEntrySummary" to get a summary of time entries by employee and task



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