

PDPM IIITDM JABALPUR
CS2003 DBMS Lab Exam – November 17, 2022

Time: 2 hours

MM: 28

Note: Read the complete paper before starting any work. You can refer to the lab slides.

You are supposed to implement an application by which users may give an online exam. The application consists of two screens. On the first screen, you need to take the roll number of the student (Dropdown). On the same page, you need to show four questions and options. Questions will come in random order. Each question will be awarded 2 marks for the correct answer and 0.5 mark will be deducted for the wrong answer. From the first screen, the user will be able to attempt the exam and submit it at last. After that user will be redirected to the second screen on which you need to show his roll no, name, the number of questions attempted, the number of questions correctly answered, the number of questions wrong answered, and total marks obtained. You also need to store the score in the table.

The problem consists of three tasks:

Task-1: Need to design tables in MySQL database using SQL queries.

Task-2: Insert some data in the tables using SQL queries.

Task-3 Design the forms and implement the functionality described in the problem statement.

Task- 1 : Create following tables in mysql using SQL queries.

1. "Student" table containing the following fields:
 - a. Student_name – string
 - b. Roll_no – string (id)
 - c. Course - string
 - d. Branch – string
 - e. Semester – int
2. "Examination" table containing the following fields:
 - a. Q_id – int (id)
 - b. Question_contents – string
 - c. Option_a – string
 - d. Option_b – string
 - e. Option_c – string
 - f. Option_d – string
 - g. Correct_option – string
 - h. Correct_marks – float
 - i. incorrect_marks – float
3. "Results" table containing following fields:
 - a. Result_id – int (id)
 - b. Roll_no – string
 - c. Student_name – string
 - d. Total_marks – float

Task- 2 : Insert the following records in “Student” and “Examination” tables.

Student table:

Student_id	Student_name	Roll_no	Course	Branch	Semester
1	Amit Bhati	20pcse02	PhD	CSE	5
2	Poornima Singh Thakur	1811603	PhD	CSE	7
3	Sanjay Kumar	20bme09	B.Tech.	ECE	5

Examination table:

Q_id	Question_contents	Option_a	Option_b	Option_c	Option_d	correct_option	Correct_marks	incorrect_marks
1	Who is the inventor of C?	Denis Ritchie	James Gosling	Brajane Stroupstrup	None of These	a	2	0.5
2	What is the full form of DBMS?	Data of Binary Management System	Database Managem ent System	Database Manageme nt Service	Data Backup Managem ent System	c	2	0.5
3	Who created the first DBMS?	Edgar Frank Codd	Charles Bachman	Charles Babbage	Sharon B. Codd	b	2	0.5
4	Which type of data can be stored in the database?	Image oriented data	Text, files containing data	Data in the form of audio or video	All of the above	d	2	0.5
5	Which of the following is not a type of database?	Hierarchical	Network	Distributed	Decentrali zed	d	2	0.5
6	Which of the following is not an example of DBMS?	MySQL	Microsoft Acess	IBM DB2	Google	d	2	0.5
7	Which of the following is not a function of the database?	Managing stored data	Manipulati ng data	Security for stored data	Analysing code	d	2	0.5
8	What is information about data called?	Hyper data	Tera data	Meta data	Relations	c	2	0.5

Sample Results table: (Example only. Entries will be created once students will take exam)

Result_id	Roll_no	Student_name	Total_marks
1	1	Amit Bhati	10
2	3	Sanjay Kumar	8

Task-3: Designing of Web pages (sample templates are given below)

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Quiz

Roll No:

Q. No. 1:

- A.
- B.
- C.
- D.

Correct Answer

Q. No. 2:

- A.
- B.
- C.
- D.

Correct Answer

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Quiz

Roll No: Roll No of student

Correct Answered: Nos questions Correctly answered

Incorrect Answered: Nos questions answered wrong

Marks Obtained: Total marks obtained