उत्तर बङ्ग

विश्वविद्यालय

'समानो मन्त्रः समितिः समानी'

UNIVERSITY OF NORTH BENGAL
B.Sc. Programme 6th Semester Examination, 2023

SEC2-P2-COMPUTER SCIENCE (SEC4)

MYSQL

Time Allotted: 2 Hours   Full Marks: 40

The figures in the margin indicate full marks.

GROUP-A

Answer any *five* questions   1×5 = 5

1. What is the difference between CHAR and VARCHAR in MySQL?

2. Mention two DDL commands.

3. What is primary key? Give an example.

4. How to delete a column in MySQL?

5. How to insert data in MySQL?

6. Mention four mathematical functions of MySQL.

7. Why is ALTER TABLE command used?

8. What is a LIKE statement?

GROUP-B

Answer any *three* questions   5×3 = 15

9. What is Trigger? How to create Trigger in MySQL?

10. Explain Select operation, Project operation in database.

11. Discuss different types of Join in MySQL.

12. Discuss the difference between delete, drop and truncate in MySQL by giving examples.

13. Explain DDL, DML and DCL in MySQL.

GROUP-C

Answer any *two* questions
10×2 = 20

14. Create the following table in the database:

Emp_id	Emp_name	Address	Salary	Date
10	Ankit	Jalpaiguri	7000	01/08/20
21	Khusi	Siliguri	17000	08/01/19
30	Rohit	Kolkata	15000	01/02/21
45	Pratiksha	Jalpaiguri	16000	02/03/18

Write MySQL queries for the following:

(i) Find the maximum salary of employee.

(ii) Retrieve all the information of employee whose name begins with 'A'.

(iii) Find all employee records whose salary is between 1000 to 15000.

15. Create the following schemas:

  department (dept_name, building, budget)

  course   (course_id, title, dept_name, credits)

  instructor (ID, name, dept_name, salary)

  section   (course_id, sec_id, semester, year, building, room_number, time_slot_id)

  teacher   (ID, course_id, sec_id, semester, year)

Write MySQL queries for the following:

(i) Find the names of all departments.

(ii) Find the names of courses offered by Computer Science department and Electrical Engineering department.

16. Create a relation

SALE (order_no, order_date, customer_no, customer_name, Bill_amount) and do the following operations on it:

(a) Create the table and insert data for minimum of 4 orders in it.

(b) Display name of customers who ordered for items on 12/11/2019.

(c) Insert another column named 'Product type' whose data type is varchar of length 20.

17. Create a relation

BOOK_ISSUE (member_id, book_id, book_name, subject, author_name, issue_date, return_date) and do the following operations on it using SQL query.

(a) Find how many books are issued whose author is 'P. Sen'.

(b) Display information on Physics books that have been issued on 22/12/2018.

(c) Delete all the entries for subject 'Computer Science' whose author is 'M. Basu'.

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