BCA/M-22   1881

RELATIONAL DATABASE MANAGEMENT SYSTEM
BCA-244

Time : Three Hours]   [Maximum Marks : 80

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

Compuslory Question

1. (a) Explain relational constraints with example.   4

   (b) Write a short note on transitive functional dependency with suitable example.   4

   (c) What is SQL ? Elaborate on SQL operators with suitable examples.   4

   (d) Explain PL/SQL data types.   4

Unit I

2. What is the purpose of Codd's rules ? Explain various Codd's rules for Relational Model.   16

3. Define Relational Algebra. Explain various operations in Relational Algebra.   16

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Unit II

4. Explain various types of normal form with suitable examples. **16**

5. Define Normalization. What is the purpose of normalization ? Explain various update anomalies along with the concept of functional dependency. **16**

Unit III

6. Explain DML and DCL Commands in SQL along with suitable examples. **16**

7. Explain the concept of Query, View and Indexes in SQL with suitable examples. **16**

Unit IV

8. Explain various control structures in PL/SQL along with suitable examples. **16**

9. Define cursors in PL/SQL. Elaborate the concept of cursors in detail and give appropriate examples. **16**

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