



K24N 0001

Reg. No. :

Name :

II Semester M.Sc. Degree (C.B.S.S. – Regular) Examination, April 2023
(2022 Admission)

STATISTICS WITH DATA ANALYTICS

MST2C05 : Database Management Systems with SQL/PL–SQL

Time : 3 Hours

Max. Marks : 80

PART – A

Answer **all** questions. **Each** carries **2** marks.

1. What is the function of DBA ?
2. What are the different types of domain in DBMS ?
3. What is meant by functional dependency ?
4. R(A,B,C) set of attribute having $A \rightarrow B$, $B \rightarrow C$ transactions. Find closure of all sets of the attribute.
5. Distinguish between DDL and DML.
6. What are transaction control commands in SQL ?
7. Distinguish between SQL and PL/SQL.
8. What are explicit cursors ?

(8×2=16)

PART – B

Answer **any four** questions. **Each** carries **4** marks.

9. Discuss various types of DBMS architecture.
10. Describe the steps to decompose the set of the attribute in functional dependency.
11. What is normalization ? Why we do normalization ?

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12. Discuss various group functions in SQL.
13. Discuss various transaction control commands with examples.
14. Describe the features of PL/SQL.

(4×4=16)

PART – C

Answer **any four** questions. **Each** carries **12** marks.

15. What are extended ER features of DBMS? Explain. Briefly discuss database system architecture.
16. Discuss various types of Normal forms. State its advantages and disadvantages.
17. Explain various SQL constraints with examples. Also discuss various sub queries in SQL.
18. Discuss various keys in SQL. Also discuss built in functions used in SQL.
19. Discuss 4PL/SQL control structures.
20. Discuss briefly on
 - i) Types of Triggers
 - ii) Event database triggers
 - iii) Composite data types.

(4×12=48)