B.E 2/4 (sem-4) 2021-2022

DBMS Assignment -1

Date of Submission: 9/05/2022

1. Define   a) Data b) Information c) Database d) DBMS   e) Data Independence
        f) Schema   g) Query   h) Entity   i) Relationship Set   j) Relation

2. Design Architecture of Data Base System. Explain the functionality of each component in the system.

3. Differentiate between File Processing Systems and Data Base Systems.

4. Explain the terms Primary key, Foreign key, Candidate key and Super key and differentiate among them with an example.

5. What is Data abstraction? Explain three levels of data abstraction.

6. What is Data Model? Explain different types of data models in DBMS.

7. Explain database design for Banking Enterprise using ER Diagram and write relational model for that ER diagram.

8. Explain the concept of Generalization, Specialization and Aggregation with an example.(Extended ER features).

9. Explain Codd rules in detail.

10. What is Functional Dependency? Explain different types of functional dependency.

11. Discuss about Inference rules with examples.

12. What is Normalization? Explain different types of Normal Forms with example.

13. Write short notes on :
    a) Aggregate functions in SQL.
    b) Comparison Operators.
    c) Logical Connectivity's.
    d) Nested queries.
    e) Correlated Nested queries.