

DBMS Assignment Topics

- 1. Design an ER diagram for a Hospital Management System and convert it into relational schema.
- 2. Implement a database for Library Management using SQL with at least 5 tables and demonstrate joins.
- 3. Write SQL queries to implement different types of joins (INNER, LEFT, RIGHT, FULL) on a Student database.
- 4. Demonstrate normalization of a given unstructured dataset up to 3NF with examples.
- 5. Implement a Banking System database and write queries for transaction management using COMMIT and ROLLBACK.
- 6. Create a database for Online Shopping System and implement indexing for faster queries.
- 7. Develop SQL queries for aggregate functions (COUNT, SUM, AVG, MAX, MIN) with GROUP BY and HAVING.
- 8. Demonstrate use of Triggers and Stored Procedures in a University database.
- 9. Study and implement Concurrency Control mechanisms with an example of deadlock prevention.
- 10. Prepare a case study on Database Security and write SQL queries to demonstrate GRANT and REVOKE.