DBMS OWN SYLLABUS ~ imp topics included.

MODULE 1 :

1. **Significance of Databases and Database System Applications:** Understand why databases are essential in various real-world applications.
2. **Advantages and Disadvantages of Different Database Management Systems (DBMS):** Focus on understanding the pros and cons of different types of DBMS, such as relational, NoSQL, and NewSQL.
3. **RDBMS and SQL Basics:**
   * Relational Database Management Systems (RDBMS) and their role in modern database systems.
   * SQL basics, including SELECT statements, filtering, sorting, and joining tables.
4. **Integrity Constraints (ICs) and Keys in SQL:** Learn about ensuring data integrity using primary keys, candidate keys, and unique constraints.
5. **Foreign Keys and Referential Integrity in SQL:** Understand how foreign keys establish relationships between tables and enforce referential integrity.
6. **Categories of SQL Commands:** Familiarize yourself with various categories of SQL commands, including Data Definition Language (DDL) and Data Manipulation Language (DML).
7. **Data Definition and Data Manipulation Statements:**
   * Creating, altering, and deleting database objects using SQL.
   * Inserting, updating, and deleting data in database tables.
8. **Transaction Processing and ACID Properties:**
   * Transactions and their importance in maintaining data consistency.
   * ACID properties (Atomicity, Consistency, Isolation, Durability) and their role in database systems.
9. **Dynamic SQL:** Understand the concept of dynamic SQL for constructing and executing SQL statements dynamically.