

# Certificate in Basics of DBMS



This beginner-friendly certificate course provides a solid foundation in Database Management Systems (DBMS) and essential data-handling skills using spreadsheets. Divided into two practical modules, the course equips learners with industry-relevant knowledge to manage, organize, and analyze data effectively.

Whether you're aiming for a career in data, business analysis, or IT, this course will help you build job-ready skills with practical applications.

## Syllabus & Skills covered (60 hours)



- Fundamentals of DBMS: Understanding the purpose, architecture, components, and advantages of database management systems.
- Data Modeling: Designing databases using Entity-Relationship (ER) models, including entities, relationships, keys, and constraints.
- Relational Database Concepts: Working with schemas, relational models, integrity constraints, and normalization.
- Relational Algebra: Applying query operations like selection, projection, joins, and aggregation to retrieve and manipulate data.
- ER-to-Relational Mapping: Converting conceptual data models into relational schema.
- Structured Query Language (SQL): Writing SQL queries for data definition (DDL), data manipulation (DML), and data control.
- Advanced SQL Operations: Creating nested queries, using constraints, handling NULLs, and managing transactions.
- Hands-on Practice: Real-time experience using MySQL and SQL Server to design, build, and query databases.

## Career Opportunities



- **Entry-Level Database Designer**
- **Junior Database Administrator (DBA)**
- **Junior Backend Developer**
- **Junior Business Intelligence (BI) Analyst**

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