CODING PRO ACADEMY

DATABASE MANAGEMENT SYSTEM (DBMS)



Design • Query • Secure • Optimize

Learn how databases are designed, queried, secured and optimized, from data models and normalization to transactions and SQL.

DURATION **2 MONTHS**

COURSE CURRICULUM

TOPICS	SUB TOPICS
1. Transaction Processing	Introduction to Transaction Processing ACID Properties of Transactions Transaction States & Concurrency Control
2. Database Security	Database Security Fundamentals Authentication, Authorization & Access Control
3. Database System Architecture	Introduction to Database System Architecture Three-Level Architecture Data Independence
4. Data Models	Entity Relationship (ER) Model ER Diagram & Mapping Network, Hierarchical & Relational Models
5. Relational Query Languages	Relational Algebra Relational Calculus
6. Relational Database Design	Database Design Process Keys, Constraints & Schema Design
7. Database Normalization	Functional Dependencies First, Second & Third Normal Forms
8. Query Processing and Optimization	Query Processing Query Optimization Techniques
9. Storage Strategies	File Organization & Storage Management Indexing & Hashing Techniques
10. SQL Concepts	SQL Fundamentals (DDL, DML, DCL & TCL) SQL Queries, Joins & Functions

ONLINE & OFFLINE LEARNING | **CERTIFICATE AVAILABLE** | **LED BY IIT / IIM ALUMNI** | **AI INTERVIEW & RESUME BUILDER**

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