

# DBMS Contains

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Introduction to Databases



Relational Database Design



SQL Fundamentals



Transaction Management and Concurrency control



Database Backup and Recovery



Query Optimization and Execution Plans



Data Warehousing and OLAP



Big Data Integration and Analytics



Advanced Topics in Database Design  
(Denormalization, Star Schema, etc.)



Database Performance Tuning and Monitoring



Database Performance Tuning and Monitoring



Distributed Databases and Replication



Object-Relational Mapping (ORM) and Hibernate



Database Scalability and Sharding



Database Migration and Upgrades

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In-Memory Databases and Caching



Geospatial Data Management