

# Certificate in Advanced DBMS Concepts



Elevate your data mastery with an in-depth exploration of database technologies! Within our Certificate in Advanced Data Analytics and Data Visualisation, you'll not only grasp the fundamentals of SQL but also develop advanced proficiency. Master the art of crafting complex SQL queries, automate database operations with triggers, navigate datasets efficiently using cursors, and streamline processes with stored procedures.

Go beyond simple querying and delve into the principles of Database Design. Learn the crucial techniques of normalization to structure your data effectively, design robust and scalable schemas, and implement strategies for anomaly prevention, ensuring data integrity.

## Syllabus & Skills covered (60 hours)



- SQL Proficiency: SQL queries, triggers, cursors, and stored procedures.
- Database Design: Normalization, schema design, and anomaly prevention.
- Transaction Management: ACID properties, concurrency control, and recovery techniques.
- NoSQL Skills: Explore key-value, graph, and MongoDB databases, including CRUD, indexing, and aggregation.
- Cloud Integration: Learn cloud database deployment, clustering, and big data visualization tools.
- Practical Application: Build real-world database applications and complete mini-projects.
- Gain skills for roles in database technology and analytics.

## Career Opportunities



- Junior Database Administrator (DBA)
- Application Developer (with DBMS focus)
- Data Quality Analyst
- SQL Developer
- Database Developer

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