

Cloud Databases – 4-Week Program (2 hours per class)

Class 1: Introduction to Cloud Databases

- Overview of cloud computing and cloud databases
 - Benefits of cloud databases vs. on-premise databases
 - Key concepts: SQL vs. NoSQL, database instances, storage, and scalability
 - Introduction to popular cloud database services
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Class 2: Creating Cloud Databases

- Setting up **Oracle Cloud Database**
 - Setting up **Microsoft SQL Server on the cloud**
 - Setting up **MySQL RDS (Relational Database Service)**
 - Understanding database configuration, security, and access control
 - Hands-on: Creating your first cloud database instance
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Class 3: Data Migration

- Techniques to migrate data from local/on-premise databases to cloud databases
 - Tools and services for migration
 - Handling large datasets and maintaining data integrity
 - Hands-on: Migrating sample data to cloud instances
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Class 4: Database Backups & Monitoring

- Importance of backups and disaster recovery strategies

- Automating backups in Oracle, SQL Server, and MySQL RDS
 - Monitoring cloud database performance and metrics
 - Hands-on: Setting up monitoring dashboards and alerts
 - Best practices for cloud database management
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Outcome by the End of 4 Weeks

- Understanding of cloud database concepts and services
- Ability to create and configure cloud databases (Oracle, SQL Server, MySQL RDS)
- Practical skills in migrating data to the cloud
- Knowledge of backups, monitoring, and maintaining cloud databases
- Confidence to manage cloud database instances effectively