INFOSOFT IT SOLUTIONS

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AZURE SQL DATA BASE

Introduction to Azure SQL Database

- Overview of Azure SQL Database
- Comparison with on-premises SQL Server
- Key features and benefits

Getting Started with Azure SQL Database

- Creating and configuring Azure SQL Database
- Access management and security
- Basic performance tuning

Database Migration to Azure SQL Database

- Methods for migrating databases to Azure SQL Database
- Using Azure Database Migration Service (DMS)
- Best practices for migration

<u>Azure SQL Database Security</u>

- Azure Active Directory integration
- Transparent Data Encryption (TDE)
- Auditing and compliance

<u>High Availability and Disaster Recovery</u>

- Implementing geo-replication
- Failover groups and read-scale replicas
- Backup and restore strategies

<u>Performance Monitoring and Optimization</u>

- Query performance tuning
- Indexing strategies
- Monitoring with Azure Monitor and Query Store

<u>Advanced Features</u>

- Advanced data security features
- In-memory OLTP and Columnstore indexes
- Using Azure SQL Database with other Azure services

Advanced Security Features

- Dynamic Data Masking
- Always Encrypted
- Row-Level Security (RLS)

Performance Tuning and Optimization

- Query Store deep dive
- Advanced indexing strategies (including filtered indexes)
- In-Memory OLTP optimization techniques

High Availability and Disaster Recovery Strategies

- Active Geo-Replication with failover policies
- Auto-failover groups and read-scale replicas
- Point-in-time restore and long-term backup retention