

Getting Started with SQL Server

Setting up SQL Server

- Selecting installation options Installing a named instance Leveraging essential tools
- SQL Server Management Studio Configuration Manager
- Transact-SQL
- sqlcmd
- PowerShell
- Dedicated Administrator Connection

Constructing and Managing Databases

- Inspecting storage structures
- Relating servers, databases and files
- Creating databases and transaction logs Designing file groups
- Maximizing storage utilization Placing tables on file groups
- Upgrading and moving databases
- Choosing between upgrade and migration Detaching and attaching databases
- Controlling database space
- Permitting automatic database growth
- Adding database files to expand databases

Handling Server and Database Security

Implementing server security

Comparing authentication modes Defining logins

Creating user-defined server roles Enforcing password policy

- Granting database access
- Contrasting users and logins Adding users
- Defining new roles
- Delegating privileges with predefined roles Repairing mismatched logins

Granting and Revoking Permissions

- Managing database-scoped privileges
- Permitting object creation Giving blanket permissions
- Defining object-level permissions Limiting object access
- Meeting complex permission requirements with roles

Backup and Recovery

- Backing up databases
- Selecting a recovery model
- Investigating the transaction log
- Running full, log and differential backups Restoring databases
- Performing a post-crash log backup Rebuilding the master database
- Recovering user and system databases

Streamlining Tasks with Jobs, Alerts and Database Mail

Configuring SQL Server Agent

- Setting agent properties
- Implementing database mail
- Defining jobs to handle routine tasks Creating alerts and operators
- Initiating multi-step jobs
- Associating alerts with jobs

Database Maintenance and Monitoring Handling fragmentation and database corruption

- Identifying and curing fragmentation Repairing database corruption
- Building database maintenance plans Scheduling plan execution
- Notifying operators of success or failure Resolving contention problems
- Identifying blocked processes Killing blockers

Resume preparation & Placement Assistance