MICROSOFT SQL SERVER

Microsoft's SQL Server Training an impeccable training course that is exclusively designed with Basics through Advanced Concepts.

Course Content and Syllabus for Microsoft SQL Server

Introduction	Overview of the SQL Server suite of products.
	Fundamentals of the relational database engine
	SQL Server Agent and Management Studio, Integration Services ,Analysis Services, Reporting Services, Data Quality Services, Master Data Services
	Database models (Physical. Conceptual, Logical)
	Authentication Modes, Logins, Users, Permissions
	Advantages and Drawbacks Of SQL Server Compared To Oracle And DB2 or any other.
Building the Databases and Schemas	Constructing a relational database
	Choosing optimal file size and growth parameters
	Working with database schemas
TSQL Commands	History and Features of TSQL
	Data Definition Language (DDL), Data Manipulation Language (DML), Data Query Language (DQL), Data Control Language (DCL), Transaction Control Language (TCL)
DDL	Using DDL (Create, Alter, Rename, Drop, Truncate)
	Describing the fundamental building blocks: tables, columns (properties and datatypes).
Safeguarding data with constraints	Protecting data integrity with constraints
	Enforcing uniqueness through primary key constraints.
	Validating conditions with check constraints.
	Protecting relationships with foreign keys.
	Enabling, disabling, creating and Removing constraints.
DML	Using DML(Update, Insert, Delete)
DQL	Operators(Arithmetic, Comparison, Logical)
	Keywords and clauses (Where, In, exist, As, Order by, Group by, Like, Is Null, between, any etc)

	Group By, Having, Union all, Union, Except, Intersect
	Controlled statements- case, if , while etc.
Table Operators	Joins(Physical and Logical Joins) and Apply(Cross and Outer),Pivot and Unpivot
Nested Queries	Subqueries (Correlated and Nocorrelated), Single and multiline.
	Derived Tables and Inline views
Stored Sub Programs	Advantages Of Stored Sub Programs compared to Independent SQL Statements
	Purpose Of Views, Creating , Altering ,Dropping
	Working With Cursors
	Standard and Indexed view with Encryption and Schema Binding Options.
	Purpose of **Stored Procedures**, Creating, Altering, Dropping with Input and Output Parameters.
	Purpose of Functions (Built-in and User Defined Functions) Scalar Functions, Table Valued Functions, Inline Table Valued Functions, Multi Statement Table Valued Functions, Ranking Functions etc.
	Purpose of Triggers and Creating, Altering and Dropping Triggers, Magic Tables, Instead Of Working with **CDC**
Storage Mode	Purpose of **Temporary tables**, Creating , Altering ,Dropping
	Purpose of **tables variables**,
	Purpose of CTE
Indexes	Indexing Architecture-Table & Index architecture , Clustered tables, Heaps & indexes
	Create , Alter and Drop Indexes (Clustered Index and NonClustered Index)
	Filter, Composite, unique, Covering , Column Store Indexes
	Scan, Seek Operations, Index Fragmentation
Managing Transaction and locks	ACID properties
	Implicit and explicit Transactions.
	Isolation levels(Read uncommitted, Read Committed, Repeatable Read, Serializable etc.
	Locking techniques and Modes.
Performance Tuning	Dos and Don'ts and Factors that impacts Performance
	Blocking & Deadlocks
	Execution Plan, SQL Profiler & Database tuning Advisor.

DBA Activities	Generating script , Backup and Restore Of Database, Attach and Detach of Database
	High Availability features (Replication, mirroring, log shipping etc.)

Trainer Profile

- Microsoft certified Professional with 9+ years of experience.
- Working professional working in multinational company as Technical Architect.
- Experience in Development of Microsoft Business Intelligence, Business Analytics, System Integration, Data Modelling, Data warehousing on various technical platforms
- Experience in different functional domains like financial investment & portfolio management, insurance & banking, health care, supply chain management domains.

Placement Assistance

- Help the trainee in the preparing of their RESUME as per current industry standards.
- Well connected with Hiring HRs in multinational companies.
- Conducts sessions including Group Discussions, Technical Mock Interviews, Presentation skills to prepare trainee to face challenging interview situation with ease.
- Guide throughout training period and even after completion for practical implementation of project.
- Provide support in live projects and any support will be provided till trainee joins new company for free.

Course Duration

- **6 Sessions (3 hrs.) and 3 Sessions (6 hrs.)**

Course Timing

- **Fast Track Training Program** (6+ hours on Saturday, Sunday & Holidays)
- **Weekend Training Classes** (3 hours Saturday, Sunday & Holidays)

Note: - Training on SQL Server 2012 and 2014 versions.