

Data Analyst Course Details

100% Practical Classes

Introduction To SQL Server

- Connecting To Server
- Sql Server Management Studio and Tools In Management Studio
- Object Explorer
- Object Explorer Details
- Query Editor

TSQL (Transact-Structured Query Language)

Introduction To TSQL

- History and Features of TSQL
- Types Of TSQL Commands
- Data Definition Language (DDL)
- Data Manipulation Language (DML)
- Data Query Language (DQL)
- Database
- Creating Database
- Altering Database
- Deleting Database
- Constrains
- Primary Key and Referential Integrity or foreign key constraints
- Data Types In TSQL
- Table
- Creating Table
- Altering Table
- Deleting Table

Data Manipulation Language

- Insert
- Identity
- Creating A Table From Another Table
- Inserting Rows From One Table To Another
- Update
- Delete
- Truncate
- Differences Between Delete and Truncate

Data Query Language (DQL)

- Select
- Where clause
- Order By Clause
- Distinct Keyword
- Column aliases
- Between ... And
- In
- Like
- Is Null

Built In Functions

- Aggregate Functions
- Group By and Having Clauses
- Over(partition by ...) Clause
- Ranking Functions
- Common Table Expressions (CTE)

Top n Clause

SQL Operators

Sub queries

Set Operators

- Union

- Union All
- Intersect
- Except

Joins

- Inner Join
- Outer Join
- Left Outer Join
- Right Outer Join
- Full Outer Join
- Cross Join

Indexes

- Clustered Index
- NonClustered Index

Views

TSQL Programming

Cursors

Stored Procedures

User Defined Functions

Triggers

SSIS

100 % Practical Classes

Introduction to SQL Server Integration Services

- SSIS Package Architecture Overview
- Introduction to SSIS & Data Warehouse
- Basic ETL Entities in SSIS
- Data and Management Tools

Introduction to Data Flow

- Data Flow Overview
- Data Sources

- Data Destinations
- Data Flow Transformations
- Data Viewers

Data Sources

- Excel Source
- Flat File Source
- OLE DB Source
- XML Source

Data Flow Transformations

- Aggregate Transformation
- Audit Transformation
- Character Map Transformation
- Conditional Split Transformation
- Copy Column Transformation
- Derived Column Transformation
- Data Conversion Transformation
- Multicast Transformation
- OLE DB Command Transformation
- Percentage Sampling Transformation
- Row Count Transformation
- Sort Transformation
- Union All Transformation
- Audit Transformation
- Character Map Transformation
- Copy Column Transformation

Advanced Data Flow

- Lookup Transformation
- Merge Transformation
- Merge Join Transformation
- Slowly Changing Dimension Transformation
- Pivot Transformation
- Export Transformation
- Import Transformation
- Unpivot Transformation
- Term Extraction Transformation
- Term Lookup Transformation

- Fuzzy Lookup Transformation
- Fuzzy Grouping Transformation

Data Flow Destinations

- Data Reader Destination
- Excel Destination
- Flat File Destination
- OLE DB Destination

Introduction to Control Flow

- Control Flow Overview
- Precedence Constraints
- The Execute SQL Task
- The Bulk Insert Task
- The File System Task
- The FTP Task
- The Send Mail Task
- Bulk Insert Task
- Data Flow Task
- Execute Package Task
- Execute Process Task
- Web Service Task
- Backup database Task
- Analysis Services Processing Task

Advanced Control Flow

- For Loop Container
- For Each Loop Container
- Sequence Container

Variables and Configurations

- Variables Overview
- Variable scope

Error Handling and Logging

- Control Flow: The On Error event handler
- Data Flow: Error data flow
- Built-in log providers

SSIS Package Deployment

- Configurations and deployment
- Deployment options

SSIS Package Management

- The SSIS Service
- Managing packages with SQL Server Management Studio
- Scheduling packages with SQL Server Agent

SSAS

100 % Practical Classes

What Is Microsoft Business Intelligence?

- Defining Microsoft Business Intelligence
- Viewing a Cube Using Excel
- Using SSAS in SSDT
- Understanding SSDT
- Creating Data Sources
- Creating Data Source Views
- Creating a multidimensional cube
- Creating a TabularModel

Intermediate SSAS

- KPI
- Action
- Aggregation
- Creating Perspectives
- Creating Translations
- Working with Multiple Fact Tables
- Using the Business Intelligence Wizard

SSRS

100 % Practical Classes

Creating basic reports

- Tabular
- List
- Matrix
- Chart
- Parameterized
- Drilldown
- DrillThrough
- Constructing data sources and Datasets

Power BI

Module 1: Power BI Desktop & Power Query

- Getting Started
- Class Introduction (BI Basics)
- Class Introduction (Power BI Desktop Overview)
- Data Discovery with Power BI Desktop
- Transforming Data (Basic Transforms)
- Transforming Data (Add Column From Example)
- Transforming Data (Appending Queries)
- Transforming Data (Merging Queries)
- Transforming Data (Combine Files)
- Transforming Data (Other Query Features)
- Introduction to Modeling Data
- Creating the Data Model (Modeling Basics)
- Creating Calculated Columns and Tables (DAX Basics)
- Creating Calculated Columns and Tables (Navigation Function)
- Creating Calculated Columns and Tables (Calculated Tables)
- Creating Calculated Measures (Measure Basics)
- Creating Calculated Measures (Time Intelligence Functions)

Module 2: Power BI Service & Visualizations & Power BI Mobile

- Introduction to Visualizing Data
- Creating Basic Reports with the Power BI Desktop
- Creating Interactive Reports (Adding Slicers for Filters)

- Creating Interactive Reports (Visualizing Tabular Data)
- Creating Interactive Reports (Visualizing Categorical Data)
- Creating Interactive Reports (Visualizing Data Trends)
- Creating Interactive Reports (Visualizing Categorical and Trend Data Together)
- Creating Interactive Reports (Visualizing Geographical Data with Maps)
- Creating Interactive Reports (Visualizing Goal Tracking)
- Creating Interactive Reports (Using Custom Visuals)
- Creating Interactive Reports (Digital Storytelling)
- Creating Interactive Reports (Other Features)
- Using the Power BI Service (Deploying to the Power BI Service)
- Using the Power BI Service (Creating and Sharing Dashboards)
- Using the Power BI Service (Using Power BI Q&A)
- Using the Power BI Service (Excel Integration)
- Refreshing the Data (Refreshing Data Overview)
- Refreshing the Data (Installing the Data Gateway)
- Refreshing the Data (Scheduling a Data Refresh)
- Mobile BI (Power BI Mobile Overview)
- Mobile BI (Designing Reports and Dashboards for Mobile)
- Mobile BI (Interacting with the Power BI Mobile App)

Module 3: Get Data

- Excel
- CSV
- Sql Server
- SSAS Multidimensional
- SSAS Tabular

Module 4: Basic DAX

- Getting Started
- Data Modeling Basics (Overview)
- Data Modeling Basics (Tabular)
- What is DAX (Overview)
- What is DAX (Tabular)
- Creating Calculated Columns (Basics)
- Creating Calculated Columns (Basics Continued)

- Navigation Functions
- Conditional and Logical Functions
- Creating Calculated Measures
- Time Intelligence (Overview)
- Time Intelligence (Time Intelligence Functions)
- Table Functions
- DAX as a Query Language

Module 5:Advanced DAX

- Class Introduction (Class Files)
- Class Introduction (Why Advanced DAX)
- Working with Filter Context (CALCULATE)
- Working with Filter Context (FILTER)
- Working with Filter Context (FILTER and ALL)
- Working with Filter Context (ALLEXCEPT)
- CALCULATE and Time Intelligence (YTD and MTD)
- Security (Implementing Basic Security)
- Security (Implementing Basic Security – Tabular)
- Advanced DAX Function (CONTAINS)
- Advanced DAX Function (FIND)
- Advanced DAX Function (SEARCH and SUBSTITUTE)
- Advanced DAX Function (ALLSELECTED)