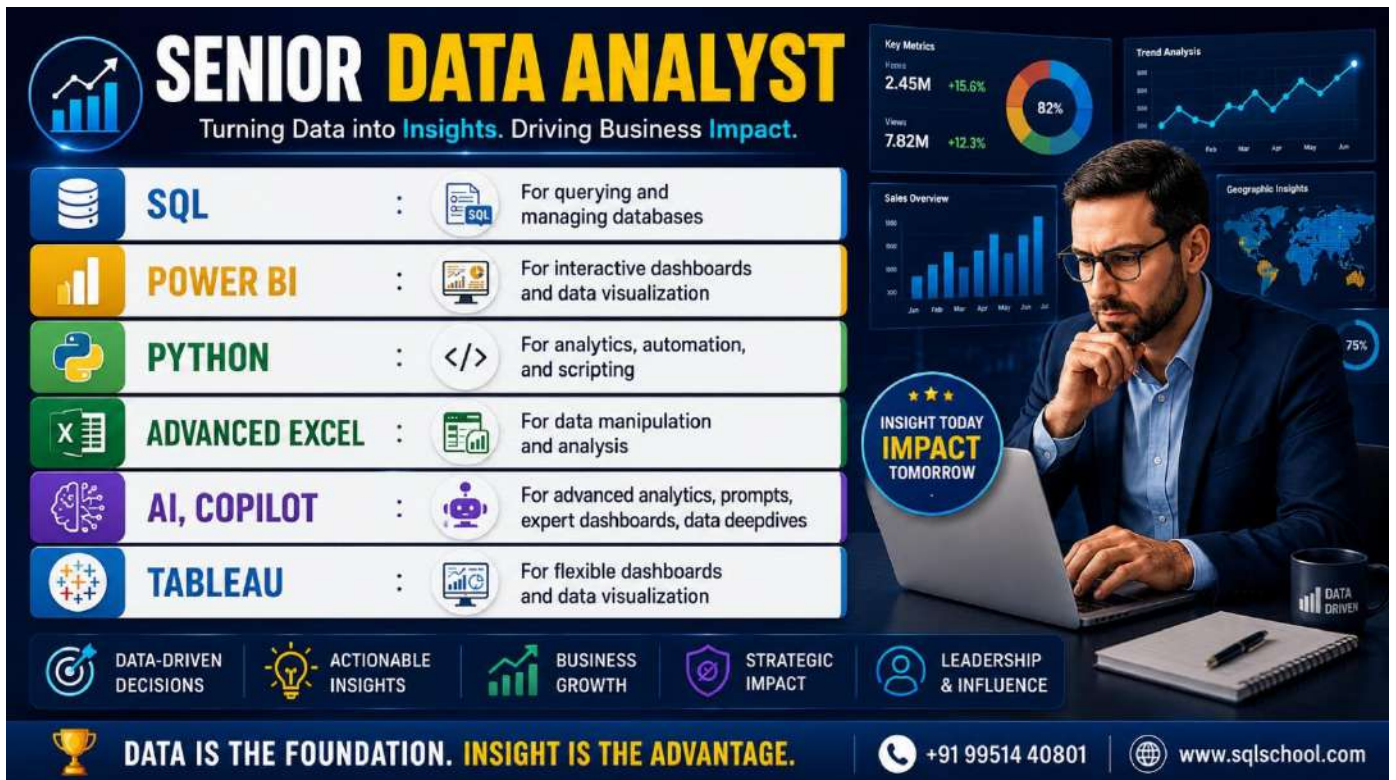




SENIOR DATA ANALYST
Turning Data into **Insights**. Driving Business **Impact**.

SQL	:	 For querying and managing databases
POWER BI	:	 For interactive dashboards and data visualization
PYTHON	:	 For analytics, automation, and scripting
ADVANCED EXCEL	:	 For data manipulation and analysis
AI, COPILOT	:	 For advanced analytics, prompts, expert dashboards, data deepdives
TABLEAU	:	 For flexible dashboards and data visualization

Key Metrics:
 Sales: 2.45M (+15.6%)
 Users: 7.82M (+12.3%)
 82%
 Trend Analysis:
 Jan Feb Mar Apr May Jun
 Sales Overview:
 Jan Feb Mar Apr May Jun Jul
 Geographic Insights:
 75%
 INSIGHT TODAY
IMPACT
 TOMORROW
 DATA-DRIVEN DECISIONS
 ACTIONABLE INSIGHTS
 BUSINESS GROWTH
 STRATEGIC IMPACT
 LEADERSHIP & INFLUENCE
DATA IS THE FOUNDATION. INSIGHT IS THE ADVANTAGE.
 +91 99514 40801
 www.sqlschool.com

Senior Data Analyst Career Program with AI – Master Data Analysis, BI, Automation, AI-Assisted Analytics & Business Insights

From Data to Decisions. From Skills to Career Growth. Become a Job-Ready Senior Data Analyst !

Build end-to-end, practical data analytics skills across: SQL Server & T-SQL • Power BI • Python • Advanced Excel • AI & Copilot • Tableau

Organizations need professionals who can do more than create reports—they need analysts who can **understand data, discover meaningful insights, communicate findings, and support better business decisions.**

A **Senior Data Analyst** combines strong analytical thinking with modern technologies such as **SQL, Power BI, Python, Advanced Excel, AI & Copilot, and Tableau**. Your course already brings these skills together with real-time business scenarios and industry projects.

Why Build Senior Data Analyst Skills?

- ✓ **Go Beyond Basic Reporting** – Move from preparing reports to identifying trends, patterns and actionable insights.
- ✓ **Master the Complete Analytics Stack** – Work across SQL, Power BI, Python, Excel, AI/Copilot and Tableau.

✓ **Solve Real Business Problems** – Transform raw data into KPIs, dashboards, forecasts and decision-ready insights.

✓ **Use AI in Modern Analytics** – Apply AI and Copilot to assist with data modeling, DAX, visualization, forecasting and analytical workflows. The curriculum specifically includes Copilot across Power BI, Power Query, DAX and cloud analytics.

✓ **Work on End-to-End Projects** – Gain practical exposure through Healthcare, E-Commerce and Finance analytics scenarios.

✓ **Build Career-Ready Skills** – Strengthen your portfolio, resume, LinkedIn profile and interview preparation.

What You'll Gain

- ✓ 100% Practical, Step-by-Step Training
- ✓ Realtime Business Scenarios
- ✓ End-to-End Industry Projects
- ✓ Data Analysis, Visualization & Dashboard Skills
- ✓ AI & Copilot for Modern Analytics
- ✓ Resume & LinkedIn Optimization
- ✓ Interview Preparation & Career Guidance

The course goes beyond individual tools by including projects in Healthcare, E-Commerce and Finance, along with AI dashboards/forecasting and career preparation.

Build Skills. Work on Projects. Become Interview Ready.

Course Details:

- ✓ **Total Duration: 4.5 Months**
- ✓ **Training Modes: LIVE Online / Self-Paced Videos**

Who can Enrol:

- ✓ **Working Professionals**
- ✓ **IT & Non-IT Experienced Individuals**

Senior Data Analyst With AI: Course Content

This detailed content with 100% Hands-On, Daily Assignments make you 100% Job ready !

Module 1: MSSQL & TSQL

Ch 1: SQL Database Job Roles

- ✓ **Database Intro**
- ✓ **OLTP, DWH, OLAP**

- ✓ DBMS Basics
- ✓ SQL Database Job Roles

Ch 2: Database Intro & Installations

- ✓ SQL Server Installations
- ✓ Instance & Collations
- ✓ SSMS Tool Installation
- ✓ Connections, Authentications

Ch 3: SQL Basics V1 (Commands)

- ✓ SQL Basics (DDL, DML, etc..)
- ✓ Creating Databases, Tables
- ✓ Data Inserts (GUI, SQL)
- ✓ Basic SELECT Queries

Ch 4: SQL Basics V2 (Commands, Operators)

- ✓ DDL: Create, Alter, Drop
- ✓ DML: Insert, Update, Delete
- ✓ DQL: Select, Fetch
- ✓ Add, Truncate Statements
- ✓ SQL Operators

Ch 5: Data Types & Variables

- ✓ Integer Data Types
- ✓ Character, MAX Data Types
- ✓ Decimal & Boolean Data Types
- ✓ Date and Time Data Types
- ✓ SQL_Variant Type

Ch 6: Data Imports

- ✓ Data Imports with Excel
- ✓ Data Imports with CSV
- ✓ Data Types Detection
- ✓ OLE-DB Connections
- ✓ ORDER BY, TOP, OFFSET

Ch 7: Schemas & Batches

- ✓ Schemas & Table Grouping
- ✓ Real-world Banking Database
- ✓ 2 Part, 3 Part & 4 Part Naming
- ✓ Batch Concept & “Go” Command

Ch 8: Constraints, Keys & RDBMS

- ✓ Null, Not Null Constraints
- ✓ Unique Key & Check
- ✓ Primary Key Constraint
- ✓ Foreign Keys, Default

- ✓ DB Diagrams & ER Models

Ch 9: Normal Forms & RDBMS

- ✓ Normal Forms: 1 NF, 2 NF
- ✓ 3 NF, BCNF and 4 NF
- ✓ 1:1, 1:M, M:1 Cardinality
- ✓ Cascading Keys, Self Referencing Keys

Ch 10: Joins & Queries

- ✓ Joins: Table Comparisons
- ✓ Inner Joins & Matching Data
- ✓ Outer Joins: LEFT, RIGHT
- ✓ Full Outer Joins & Aliases
- ✓ Self Joins & Aliases

Ch 11: Sub Queries

- ✓ Basic Sub Queries
- ✓ Aggregations
- ✓ Combining Queries
- ✓ Correlated Sub Queries
- ✓ UNION, UNION ALL

Ch 12: Group By Queries

- ✓ Group By, Distinct
- ✓ GROUP BY, HAVING
- ✓ Cube() and Rollup()
- ✓ Sub Totals & Grand Totals
- ✓ Grouping() & Usage
- ✓ ISNULL, COALESCE

Ch 13: Joins with Group By, Sub Queries

- ✓ 3 Table, 4 Table Joins
- ✓ Join Queries & WHERE
- ✓ Join & Group By, Sub Queries
- ✓ IIF(), CASE Statement
- ✓ EXISTS, NOT EXISTS
- ✓ Query Execution Order

Ch 14: Views & RLS

- ✓ Views: Realtime Usage
- ✓ DML, SELECT with Views
- ✓ WITH CHECK OPTION
- ✓ Row Level Security (RLS)
- ✓ Important System Views

Ch 15: Functions & Queries

- ✓ User Defined Functions

- ✓ Scalar, Table Value Functions
- ✓ Variables & Parameters
- ✓ Date & Time Functions
- ✓ String Functions
- ✓ Aggregated Functions
- ✓ Data Conversion Functions

Ch 16: Advanced SQL & Window Functions

- ✓ Window Functions (Rank)
- ✓ Row_Number, DenseRank
- ✓ Partition By & Order By
- ✓ Lag & Lead Functions
- ✓ Pivot, UnPivot
- ✓ Running Totals
- ✓ Moving Average

Ch 17: Stored Procedures - 1

- ✓ Stored Procedures: Realtime Use
- ✓ Parameters Concept with SPs
- ✓ Procedures with SELECT
- ✓ System Stored Procedures
- ✓ Stored Procedures, Tuning

Ch 18: Stored Procedures - 2

- ✓ Merge Statement (Upsert)
- ✓ Merge with OLTP & DWH
- ✓ Matched and Not Matched
- ✓ Merge & SP Recompilations

Ch 19: Triggers & Automations

- ✓ Need for Triggers in Real-world
- ✓ DDL & DML Triggers
- ✓ For / After Triggers
- ✓ Instead Of Triggers
- ✓ Disabling DMLs Triggers

Ch 20: Transactions & ACID

- ✓ Auto Commit Transaction
- ✓ Explicit Transactions
- ✓ COMMIT, ROLLBACK
- ✓ Checkpoint & Query Blocking
- ✓ READPAST, LOCKHINT
- ✓ TRY...CATCH & Error Handling

Ch 21: SQL Query Performance & Indexing

- ✓ Clustered vs Nonclustered Indexes
- ✓ Index Seek vs Scan

- ✓ Execution Plans
- ✓ SARGable Queries
- ✓ Tuning Queries
- ✓ Avoiding SELECT *
- ✓ Indexing JOIN/WHERE columns
- ✓ Statistics Basics
- ✓ Query Optimization Examples

Ch 22: CTEs & Tuning

- ✓ Common Table Expression
- ✓ CTEs for Data Retrieval
- ✓ CTEs for DML Operations
- ✓ Data Cleansing Techniques
- ✓ Duplicate Detection/Removal

Ch 23: Temp Tables & Query Techniques

- ✓ Local & Global Temp Tables
- ✓ SELECT..INTO Statement
- ✓ Cursor Basics – When to Use & Avoid
- ✓ NULLIF
- ✓ Basic Execution-Plan Reading

Ch 24: Bonus / Advanced Module: SQL Server Internals

- ✓ Database Engine Components
- ✓ Parser, Compiler & Optimizer
- ✓ Parsing and Compilation
- ✓ Memory Manager & IO Managers

Real-Time Project on HealthCare Domain

Project Requirement:

Solve 20+ Real-World Healthcare Business Requirements.

Project Workflow:

Database Design → SQL Development → Data Analysis → Performance Optimization

Project Operational Flow:

Healthcare DB → Patients → Doctors → Appointments → Treatments → Billing → Insurance → SQL Analysis → Stored Procedures → Performance Tuning → Business Reports

Business Requirements:

Monthly Hospital Revenue, Top Doctors By Patients Treated, Repeat Patients, Department Performance, Average Treatment Cost, Unpaid Bills, Insurance Claim Analysis, Patient Trends, Month-Over-Month Revenue And Top Procedures...

Module 2: Power BI

Ch 1: Power BI Intro, Installation

- ✓ Power BI & Data Analysis
- ✓ Power BI Eco System
- ✓ Power BI Design Tools
- ✓ Power BI Installation

Ch 2: Report Design Concepts

- ✓ Basic Report Design (PBIX)
- ✓ Data Points, Spotlight
- ✓ Visual Interactions & Edits
- ✓ Focus Mode, PDF Exports

Ch 3: Grouping, Hierarchies

- ✓ Creating Groups: Lists
- ✓ Creating Groups: Bins
- ✓ Hierarchies & Drill-Downs
- ✓ Drill Up, Conditional Drill Down

Ch 4: Slicer & Visual Sync

- ✓ Slicer Visual in Power BI
- ✓ Slicer: Format Options
- ✓ Single Select, Multi Select
- ✓ Slicer: Select All On / Off
- ✓ Visual Sync with Slicers

Ch 5: Filters & Drill Thru

- ✓ Power BI Filters
- ✓ Basic, Top & Advanced
- ✓ Visual Filters, Page Filters
- ✓ Report Level Filters, Clear Filter
- ✓ Drill Thru Filters & Usage

Ch 6: Bookmarks, Buttons

- ✓ Power BI Bookmarks
- ✓ Images: Actions, Bookmarks
- ✓ Buttons: Actions, Bookmarks
- ✓ Page to Page Navigations
- ✓ Score Cards, Master Pages

Ch 7: SQL DB Access & Big Data

- ✓ SQL DB Access, Queries
- ✓ Storage Modes: Direct Query
- ✓ Formatting & Date Time

- ✓ Storage Modes in Power BI
- ✓ Data Modeling & Formatting

Ch 8: Power BI Visualizations

- ✓ Charts, Bars, Lines, Area
- ✓ Tree Maps & Axis Items
- ✓ Funnel, Card, Mult-Row Card
- ✓ Pie Charts & Waterfall
- ✓ Scatter Chart, Play Axis
- ✓ Infographics, Classifications

Ch 9: Power Query Transformations - 1

- ✓ Power Query (Mashup)
- ✓ ETL Transformations in PBI
- ✓ Table Combine Options
- ✓ Merge, Union All Options
- ✓ Missing Values, Duplicate Records
- ✓ Wrong Data Types, Outliers
- ✓ Close, Apply & Visualize

Ch 10: Power Query Transformations - 2

- ✓ Group By Transformation
- ✓ Aggregate, Pivot Operation
- ✓ Reverse Rows, Count Rows
- ✓ Data Cleaning, Null Handling
- ✓ Data Type Detection, Change
- ✓ Rename, Replace, Move
- ✓ Fill Up, Fill Down

Ch 11: Power Query Transformations - 3

- ✓ String / Text Transformations
- ✓ Split, Merge, Extract, Format
- ✓ Numeric and Date Time
- ✓ Add Column & Expressions
- ✓ Column From Examples

Ch 12: Power Query Transformations - 4

- ✓ Parameters in Power Query
- ✓ Static Parameters, Defaults
- ✓ Dynamic Dropdowns, Lists
- ✓ Linking with Table Queries
- ✓ Step Edits, Type Conversions

Ch 13: Power BI Cloud & Fabric

- ✓ Power BI Cloud, Microsoft Fabric
- ✓ Microsoft Fabric Concepts
- ✓ Fabric One Lake (DWH, LH, etc.)
- ✓ Microsoft Fabric Workspace
- ✓ Power BI Desktop Connections
- ✓ Report Uploads (PBIX)
- ✓ Report Edits, Semantic Models

Ch 14: Power BI Cloud Dashboards

- ✓ Power BI Dashboards
- ✓ Dashboard Creation, Usage
- ✓ Pin Visuals, Pin LIVE Pages
- ✓ Add Image, Video Tiles
- ✓ Q&A & Pin Tiles

Ch 15: Power BI Cloud Operations

- ✓ Report Shares, Alerts
- ✓ Subscriptions, Exploration
- ✓ Downloads & Edits
- ✓ Report Cloning in Cloud
- ✓ QR Codes, Web Publish
- ✓ Lineage & Metrics

Ch 16: Power BI Cloud Gateways

- ✓ Data Gateways, Data Refresh
- ✓ Install, Configure Gateways
- ✓ Data Refresh & Scheduling
- ✓ Gateway Optimizations
- ✓ Incremental Refresh
- ✓ Large Dataset Optimization

Ch 17: Power BI Cloud Apps

- ✓ Power BI Apps: Creation
- ✓ App Sections & Content
- ✓ Audience & App Security
- ✓ App Updates, Favorites
- ✓ App URL, End User Access

Ch 18: Power BI Report Server, RDL

- ✓ Power BI Report Server
- ✓ RS Config Tool Options
- ✓ Report Database, TempDB
- ✓ Web Service & Server URL
- ✓ Report Builder Tool

- ✓ Paginated Report (RDL)
- ✓ RDL Report Publish

Ch 19: DAX Concepts & Calculations

- ✓ DAX Concepts: Intro & Realtime Need
- ✓ DAX Columns: Creation, Use
- ✓ DAX Measures: Creation, Use
- ✓ DAX Functions: IIF, ISBLANK
- ✓ SUM, CALCULATE Functions

Ch 20: DAX Quick Measures

- ✓ Quick Measures in Power BI
- ✓ Running Totals
- ✓ Star Rating Calculations
- ✓ DAX Measures in Data View
- ✓ DAX in Cloud Reports

Ch 21: Data Modelling

- ✓ Dimensions Tables
- ✓ Fact Tables & DAX Measures
- ✓ Data Models & DAX Joins
- ✓ Star & Snowflake Schemas
- ✓ Many-to-Many Relationships
- ✓ Calculation Groups

Ch 22: DAX Joins, Variables

- ✓ CALCULATEX & Variables
- ✓ COUNT, COUNTA, etc..
- ✓ SUM, SUMX, etc..
- ✓ SELECTED MEMBER
- ✓ Filter Context, RETURN

Ch 23: DAX Models & Calculations

- ✓ VAR, SWITCH, SUMMARIZE
- ✓ TREATAS, USERELATIONSHIP
- ✓ CROSSFILTER, GENERATE
- ✓ RANKX, TOPN, WINDOW
- ✓ OFFSET, INDEX

Ch 24: DAX Time Intelligence

- ✓ Need for Time Intelligence
- ✓ Date Table Generation
- ✓ Time Intelligence with DAX
- ✓ PARALLELPERIOD, DATE

- ✓ CALENDAR, Total Functions
- ✓ YTD, QTD, MTD with DAX

Ch 25: DAX - Row Level Security

- ✓ RLS: Row Level Security
- ✓ Data Modelling & Roles
- ✓ Add Cloud Users & KPIs
- ✓ CoPilot with DAX

Ch 26: DAX – Analytical Reports

- ✓ DAX with Excel
- ✓ Analytical Reports
- ✓ Virtual Cube Concepts
- ✓ Cross Filter Reporting
- ✓ Alerts, Data Activator

Ch 27: PL 300 Exam Guidance

- ✓ PL 300 Exam Guidance
- ✓ Exam Samples
- ✓ Exam Scenarios

Realtime Project: Enterprise Healthcare Data & Analytics Platform

Project Objective

Design and implement a modern Healthcare Data Platform using Power BI Analytics and Reporting services to process patient, hospital, clinical, and operational data for reporting, analytics, and decision-making.

Technologies Used

- ✓ SQL Server
- ✓ MS Excel
- ✓ Parquet
- ✓ CSV
- ✓ PDF
- ✓ Azure

Learning Outcomes

After completing this project, you can confidently showcase experience in:

- Power BI Reporting
- Power BI Data Analytics
- Business Process Understanding
- Performance Optimization
- End-to-End Power BI Implementation in Cloud

Module 3: Python (For Data Analysts)

Ch 1: Python Introduction

- ✓ Python Introduction
- ✓ Python Versions
- ✓ Python for Data Analysts
- ✓ Python Architecture

Ch 2: Python Installations

- ✓ Python Installations
- ✓ Anaconda Installation
- ✓ Python IDE & Usage
- ✓ Jupyter Notebooks

Ch 3: Python Print Statement

- ✓ Python Print Statement
- ✓ print(), print()
- ✓ Testing Case Sensitivity
- ✓ Single Line, Multi Line prints
- ✓ print() with single quotations
- ✓ Debug with AI (AI Assistants)

Ch 4: Python Variables

- ✓ Python Variables
- ✓ Assigning values
- ✓ Variable Value Reads
- ✓ Multiple Variables & Print()

Ch 5: Python Operators

- ✓ Arithmetic Operators
- ✓ Python String Literals
- ✓ Single, Double Quotes
- ✓ Format Strings (f string)
- ✓ Comparison, Indexing Operators

Ch 6: Python Data Types

- ✓ Python Data Types
- ✓ Integer, Float, String Data Types
- ✓ Type Casting
- ✓ Type Identification
- ✓ Multi Value Assignments

Ch 7: Python Lists

- ✓ Creating Python Lists
- ✓ Printing List Items
- ✓ Print List Slices

- ✓ Empty Lists, Append
- ✓ Loops, List Updates

Ch 8: Python Dictionaries

- ✓ Python Dictionary
- ✓ Indexing Dictionaries
- ✓ Edit Key Values
- ✓ Lists inside Dictionaries
- ✓ Delete & Clear

Ch 9: Python Tuples

- ✓ Python Tuples
- ✓ Defining, Indexing
- ✓ Length(), Type()
- ✓ Mixed Values in Tuples
- ✓ Overwriting Tuples

Ch 10: Python IF..ELSE Condition

- ✓ If..Else conditions
- ✓ if..elif..else & Shorthand if
- ✓ composite conditions
- ✓ in & negation operators
- ✓ range conditions

Ch 11: Python Loops

- ✓ Python For Loop
- ✓ For Loop @ Range
- ✓ For Loop @ Sequence Values
- ✓ While Loop, Exit Conditions
- ✓ Break, Continue, Paas

Ch 12: Python Dataframes

- ✓ Dataframes: Creation
- ✓ Pandas Dataframes
- ✓ Dataframes From Single List
- ✓ Dataframes from Dictionary
- ✓ Display Dataframes, List Items
- ✓ Identify, Replace Nulls, NumPy

Ch 13: Python SQL DB Access

- ✓ SQL DB Access with Python
- ✓ pyodbc module, sql functions
- ✓ SQL Query Executions: DDL, DML
- ✓ Filters, Aggregations with SQL
- ✓ Dataframe Usage with SQL

Ch 14: Dataframe Transformations - 1

- ✓ Dataframe Transformations
- ✓ Concat & Append
- ✓ Merge Function
- ✓ Join with Multiple Dataframes
- ✓ Data Type Checks, Conversions
- ✓ Loops with Dataframes

Ch 15: Dataframe Transformations - 2

- ✓ Pandas - Cleaning Data
- ✓ Replace, Transform Columns
- ✓ Data Discovery & Column Fill
- ✓ Identify & Remove Duplicates
- ✓ dropna(), fillna() Functions

Ch 16: Dataframe Transformations - 3

- ✓ Python Functions for date, time
- ✓ Now() Function in Python
- ✓ date, time Functions
- ✓ Calendar Data Generation

Ch 17: Python Functions & Lambda

- ✓ Python Functions & Usage
- ✓ Function Parameters
- ✓ Default & List Parameters
- ✓ Python Lambda Functions
- ✓ Return & Print @ Lambda

Module 4: Excel Analytics (Basic to Advanced)

Ch 1: Excel Concepts, Basic Functions

- ✓ Excel Basics & Concepts
- ✓ Excel Functions
- ✓ Excel Operations

Ch 2: Formatting and Proofing

- ✓ Currency Format
- ✓ Custom and Special Formats
- ✓ Formatting Cells
- ✓ Absolute, Mixed
- ✓ Relative Referencing

Ch 3: Functions

- ✓ Sumif, Sumifs, Countif

- ✓ Countifs, Averageif
- ✓ Averageifs, Nested If
- ✓ IfError Statement
- ✓ And, Or, Not

Ch 4: Protecting Excel

- ✓ File Level Protection
- ✓ Workbook
- ✓ Worksheet Protection
- ✓ Security Concepts
- ✓ Realtime Issues, Solutions

Ch 5: Text Functions

- ✓ Upper, Lower, Proper
- ✓ Left, Mid, Right
- ✓ Trim, Len, Exact
- ✓ Concatenate
- ✓ Find, Substitute

Ch 6: Date & Time Functions

- ✓ Today, Now
- ✓ Day, Month, Year
- ✓ Date, Date if, Date Add
- ✓ EOMONTH
- ✓ Weekday Functions

Ch 7: Advanced Techniques

- ✓ Paste Formulas
- ✓ Paste Formats
- ✓ Paste Validations
- ✓ Transpose Tables

Ch 8: New in Excel & 365

- ✓ Charts – Tree map & Waterfall
- ✓ Sunburst, Box and whisker Charts
- ✓ Combo Charts – Secondary Axis
- ✓ Adding Slicers Tool in Pivot & Tables
- ✓ Using Power Map and Power View
- ✓ Forecast Sheet, park lines

Ch 9: New in Excel & 365

- ✓ Using 3-D Map
- ✓ Pivot Tables, Time Lines
- ✓ Auto complete a data range

- ✓ Quick Analysis Tool
- ✓ Smart Lookup

Ch 10: Printing Workbooks

- ✓ Setting Up Print Area
- ✓ Customizing Headers
- ✓ Templates
- ✓ Print Titles –Repeat Rows

Ch 11: Sorting and Filtering

- ✓ Filtering on Text
- ✓ Numbers & Colors
- ✓ Sorting Options
- ✓ Advanced Filters
- ✓ Filter Criteria

Ch 12: What If Analysis

- ✓ Goal Seek
- ✓ Scenario Analysis
- ✓ Data Tables (PMT Function)
- ✓ Solver Tool

Ch 13: Logical Functions

- ✓ If Function
- ✓ How to Fix Errors – if error
- ✓ Nested If
- ✓ Complex if and or functions

Ch 14: Data Validation

- ✓ Number, Date & Time
- ✓ Text and List Validation
- ✓ Custom validations formulas
- ✓ Dynamic Dropdowns

Ch 15: Lookup Functions

- ✓ V lookup
- ✓ Xlookup
- ✓ Reverse Lookup
- ✓ Index and Match
- ✓ Worksheet linking

Ch 16: Pivot Tables - 1

- ✓ Creating Simple Pivot Tables
- ✓ Classic Pivot table

- ✓ Filtering PivotTables
- ✓ Modifying PivotTable Data
- ✓ Grouping , Calculated Fields

Ch 17: Pivot Tables - 2

- ✓ Array with IF, LEN
- ✓ MID function formulas.
- ✓ Array with Lookup functions.
- ✓ SLICERS, Filter data
- ✓ Manage Primary Axis
- ✓ Manage Secondary Axis

Ch 18: Excel Dashboard

- ✓ Planning a Dashboard
- ✓ Adding Tables and Charts to Dashboard
- ✓ Adding Dynamic Contents to Dashboard

Ch 19: VBA Macro – Level 1

- ✓ Using Outlook Namespace
- ✓ Send automated mail
- ✓ Outlook Configurations, MAPI
- ✓ Worksheet Operations
- ✓ Workbook Operations

Ch 20: VBA Macro – Level 2

- ✓ Merge Worksheets using Macro
- ✓ Merge multiple excel files into one sheet
- ✓ Split worksheets using VBA
- ✓ Worksheet copiers

Ch 21: Statistics For Data Analysis - 1

- ✓ Mean, Median
- ✓ Mode, Variance
- ✓ Standard Deviation
- ✓ Correlation

Ch 22: Statistics For Data Analysis - 2

- ✓ Probability Basics
- ✓ Hypothesis Testing
- ✓ A/B Testing
- ✓ Confidence Interval
- ✓ Outliers, Normal Distribution

Module 5: AI & Co-Pilot

Ch 1: Copilot Introduction

- ✓ AI Concepts
- ✓ AI Fundamentals
- ✓ AI in Realtime
- ✓ Microsoft Copilot

Ch 2: Copilot Architecture

- ✓ Copilot Architecture
- ✓ Anatomy of a copilot
- ✓ Prompts in Copilot
- ✓ Data Security
- ✓ Copilot Configurations

Ch 3: Building Prompts

- ✓ Copilot Usage
- ✓ Building Good Prompts
- ✓ Dos & Don'ts
- ✓ Undo Options

Ch 4: Copilot in Power BI Desktop

- ✓ Copilot for Data Modelling
- ✓ Copilot for Visuals
- ✓ Copilot for Formatting
- ✓ Visual Interactions
- ✓ Visual Sync

Ch 5: Copilot in Power Query

- ✓ Copilot for M Language
- ✓ Copilot for ETL
- ✓ Copilot with Expressions

Ch 6: Copilot in Power BI Cloud

- ✓ Copilot in Cloud Service
- ✓ Visual Analytics
- ✓ Semantic Models
- ✓ Power BI Dashboards
- ✓ Power BI Apps

Ch 7: Copilot in DAX

- ✓ DAX with Copilot
- ✓ Big Data Analytics

- ✓ DAX Constructs with Copilot
- ✓ Q & A Concepts

Ch 8: Analytical Reports & AI - 1

- ✓ Copilot with Power BI Desktop
- ✓ CoPilot in Power BI Cloud
- ✓ Key Influencers
- ✓ Decomposition Tree
- ✓ Smart Narrative

Ch 9: Analytical Reports & AI - 2

- ✓ Q&A Visual
- ✓ Anomaly Detection
- ✓ Forecasting
- ✓ AI Visuals
- ✓ Azure AI Integration

Module 6: Tableau

CH 1: TABLEAU INTRO, INSTALLATION

- ✓ Introduction to Tableau
- ✓ Report Types in Real-time
- ✓ Data Sources for Report Design
- ✓ Tableau as a Self Service BI
- ✓ Tableau Features
- ✓ Tableau Licensing Plans

CH 2: TABLEAU ARCHITECTURE

- ✓ Data Sources, Connectors
- ✓ Tableau Clients
- ✓ Tableau Server Components
- ✓ VizQL Server & Data Engine
- ✓ Backgrounder, Data Server
- ✓ Fast Data Engine
- ✓ Gateway Components

CH 3: TABLEAU INTRO, INSTALLATION

- ✓ Tableau Public Desktop
- ✓ Report Development
- ✓ Data Sources Types
- ✓ Tableau Prep Tools
- ✓ Data Modelling
- ✓ Drilldown Reports

CH 4: TABLEAU REPORTS & JOINS

- ✓ Data Search
- ✓ Alias, Bins, Workbooks

- ✓ Bookmarks, Calculations
- ✓ Tableau File Type
- ✓ Pages, Rows, Columns
- ✓ Inner, Left / Right Outer Joins

CH 5: TABLAU REPORT DESIGN

- ✓ Cross Tabs, Dashboards,
- ✓ Visual Sync
- ✓ Sets, Marks, Workbooks
- ✓ Data Pane, Dimensions
- ✓ Extract, Filters

CH 6: BIG DATA ACCESS, BLENDING

- ✓ SQL Data Access
- ✓ Remote Data Sources
- ✓ Remote Joins
- ✓ SQL Queries in Tableau
- ✓ Data Blending
- ✓ Multiple Data Sources
- ✓ Combine, Aggregations
- ✓ Data Grouping

CH 7: TABLEAU CALCULATIONS

- ✓ Tableau Calculations
- ✓ Numerical Calculations
- ✓ Aggregated Calculations
- ✓ Calculations From Shelves
- ✓ Calculation Edits, Identifications

CH 8: STRING, DATE FUNCTIONS

- ✓ Tableau Functions
- ✓ String Functions
- ✓ Date Functions
- ✓ Time Functions
- ✓ Aggregation Functions
- ✓ Other Functions

CH 9: TABLE CALCULATIONS

- ✓ Calculations For Year, Quarter, Month
- ✓ Custom Calculations
- ✓ Data Appending
- ✓ Custom Date and Time Formats
- ✓ Calculations Reuse and Edits
- ✓ Date and Time Conversions
- ✓ Running Total
- ✓ Row Number, Case Statements

CH 10: LOD CALCULATIONS

- ✓ Table Calculations
- ✓ Level of Details
- ✓ Table Calculations
- ✓ Partitioning, FIXED LOD
- ✓ INCLUDE LOD Expressions
- ✓ EXCLUDE LOD Expressions

CH 11: TABLEAU VISUALIZATIONS - 1

- ✓ Tableau Visualizations
- ✓ Tableau Bar Charts
- ✓ Horizontal & Colored Charts
- ✓ Interactive Charts & Filters
- ✓ Continuous Charts
- ✓ Dual Line Chart, Area Charts
- ✓ CrossTab Charts, Pie Charts

CH 12: TABLEAU VISUALIZATIONS - 2

- ✓ Divergence, Color Palettes
- ✓ Box & Wishker Plots
- ✓ Text Tables;
- ✓ Heat Maps, Treemaps
- ✓ Motion Charts
- ✓ Bullet Graphs

CH 13: TABLEAU FILTERS

- ✓ Tableau Filters
- ✓ Extract Filters, TDE (hyper)
- ✓ twb Files, History, TDE
- ✓ Context Filters
- ✓ Dimension Filters
- ✓ Measure Filters
- ✓ Filters Scope and Quick Filters

CH 14: PARAMETERS, SETS

- ✓ Tableau Parameters
- ✓ Parameters, Conditions
- ✓ Calculations, Dynamic Filters
- ✓ Dynamic Dimensions
- ✓ Dynamic Measures With Sets
- ✓ IN and OUT Concepts

CH 15: TABLEAU FORECASTS, ACTIONS

- ✓ Tableau Trend Lines
- ✓ Reference Lines
- ✓ Forecasts, Exponential Smoothing
- ✓ Forecasts, Bookmarks
- ✓ Tableau Action Types
- ✓ Static/Dynamic Actions

- ✓ URL and Parameter Action Types
- ✓ Tableau Actions & Dashboards

CH 16: DASHBOARDS & STORIES

- ✓ Dashboards and Stories
- ✓ Building Dashboards
- ✓ Legends and Quick Filters
- ✓ Floating Layouts
- ✓ Layout Containers
- ✓ Dashboard Extensions, API
- ✓ Device Designer
- ✓ Customizing Layouts
- ✓ Bollinger Bands

CH 17: Tableau Prep

- ✓ Installation ETL
- ✓ Tableau Desktop Store
- ✓ Server Store

CH 18: TABLEAU SERVER

- ✓ Tableau Server - Architecture
- ✓ Installation Process
- ✓ Workbook, Sharing and Layouts
- ✓ Custom Layouts
- ✓ Tableau Online Vs Table Server
- ✓ Device Layouts in Tableau Online

CH 19: COLLOBORATE TABLEAU ONLINE

- ✓ Tableau Online, LIVE Reports
- ✓ Projects and Workbooks
- ✓ Report Views in Tableau Online
- ✓ Account Settings, Drill Down
- ✓ Sharing, Subscription
- ✓ Web Authoring, Marks and Maps

CH 20: MANAGE TABLEAU SERVER

- ✓ Tableau Server - Administration Concepts
- ✓ Tableau Sites, Users, Groups Security
- ✓ Data Security with user Filters
- ✓ Filters and Hybrid Models in Server
- ✓ TSM : Tableau Services Manager
- ✓ GUI and CLI; Backups and Restores
- ✓ Tabcmd : Imports; Tabcmd

Module 7: Realtime Projects

Realtime Project – 1 (ECommerce Domain)

- ✓ Project Requirement

- ✓ Project Solution
- ✓ Project FAQs
- ✓ AI Sales Dashboard

Realtime Project – 2 (Finance Domain)

- ✓ Project Requirement
- ✓ Project Solution
- ✓ Project FAQs
- ✓ AI Financial Forecast

Career Guidance

- ✓ Resume Optimization
- ✓ LinkedIn Optimization
- ✓ ATS-Friendly Resume
- ✓ Interview Strategies

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