



Complete Practical, Real-time Job Oriented Training

What is Business Analysis?

Business analysts help maximize a business's effectiveness through data-driven decisions. Business analysts can identify issues in virtually any part of an organization, including IT processes, organizational structures, or staff development. BA is an art to understand the data, identify implementation areas, plan work items & ensure consistent customer delivery.

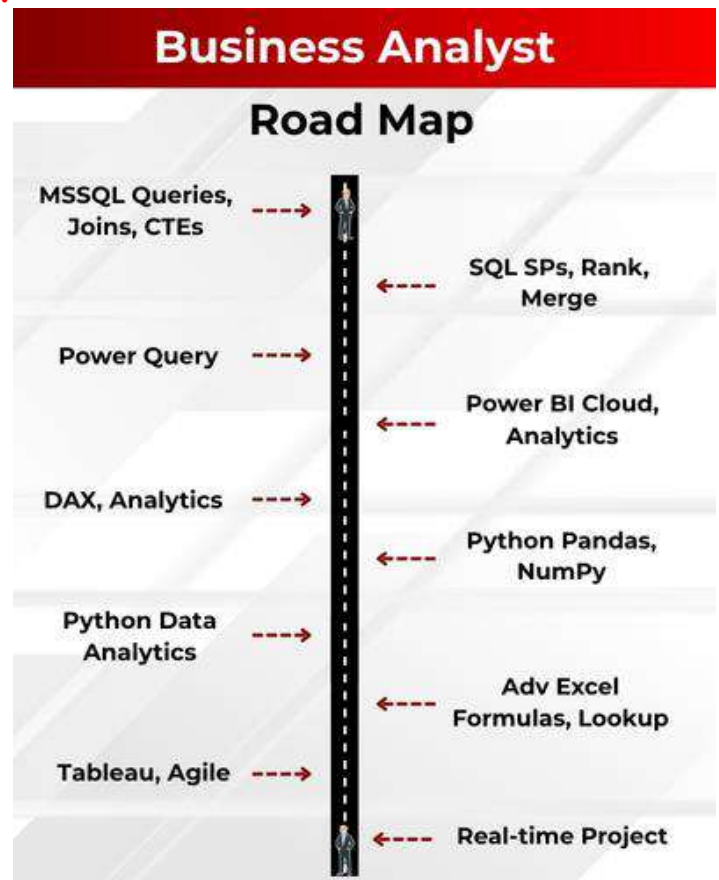
Who can join this course?

Anyone. We start the classes from scratch, right from Basics of Data and process for Business, Analysis, Analytics, Work Item Processing, UML and more..!
Then finally, proceed for Scenario based activities and job orientation with Realtime Project.

What does our Business Analysis Course include?

Business Analyst Training with AI, CoPilot:

- **Module 1: MSSQL & TSQL**
3 Weeks; 1 Realtime Project
- **Module 2: Power BI**
4 Weeks; 1 Realtime Project
PL 300 Exam
- **Module 3: Python Analytics**
3 Weeks; 1 Realtime Project
- **Module 4: Adv. Excel**
3 Weeks; 1 Realtime Project
- **Module 5: AI & Co-Pilot**
2 Weeks; 1 Realtime Project
- **Module 6: Tableau**
2 Weeks; 1 Realtime Project
- **Module 7: Agile**
1 Week; 1 Realtime Case Study



Business Analysis: Detailed Course Content

Module 1: SQL Server TSQL (MSSQL)

Ch 1: Database Intro & Job Roles ✓ Database Introduction ✓ Database Types: OLTP, DWH ✓ DBMS & Realtime Use ✓ DBMS Software & Purpose ✓ SQL: Purpose & Use ✓ SQL Server Versions, Editions ✓ Power BI Job Roles	Ch 2: SQL Server Installations ✓ SQL Server 2022 Installations ✓ SQL Server 2019 Installations ✓ SSMS Tool Installation ✓ Server Connections, Properties ✓ Instance & Instance Types ✓ Authentication Types ✓ System Databases & Purpose	Ch 3: SQL Basics V1 (Commands) ✓ Database, Tables & Columns ✓ SQL Basics: Purpose ✓ DDL Statements ✓ DML Statements ✓ DQL Statements ✓ Verifications @ GUI ✓ Basic SELECT Queries
Ch 4: SQL Basics V2 (Operators) ✓ DDL Variants in MSSQL ✓ DML Variants in MSSQL ✓ INSERT & INSERT INTO ✓ SELECT & SELECT INTO ✓ Basic Operators in SQL ✓ Special Operators in MSSQL ✓ ALTER, TRUNCATE, DROP	Ch 5: Excel Data Imports ✓ Data Imports with Excel ✓ SQL Native Client ✓ Order By: Asc, Desc ✓ Order By with WHERE ✓ TOP & OFFSET ✓ UNION ALL ✓ UNION, Data Appends	Ch 6: Schemas & Security ✓ Schemas: Creation, Usage ✓ Schemas & Table Grouping ✓ Using Default Schema ✓ Real-world Banking Database ✓ Table Migrations @ Schemas ✓ 2 Part, 3 Part & 4 Part Naming ✓ Verifying Schemas in UI
Ch 7: Constraints & Keys Basics ✓ Need for Constraints, Keys ✓ Null, Not Null Constraints ✓ Unique Key Constraint ✓ Primary Key Constraint ✓ Foreign Key & References ✓ Default Constraint & Usage ✓ DB Diagrams & ER Models	Ch 8: Indexes Basics, Tuning ✓ Indexes & Tuning ✓ Clustered Index, Primary Key ✓ Non Clustered Index & Unique ✓ Creating Indexes Manually ✓ Verifying Indexes ✓ Composite Keys, Query Optimizer ✓ Composite Indexes & Usage	Ch 9: Joins & Audits ✓ Joins: Table Comparisons ✓ Inner Joins & Matching Data ✓ Outer Joins: LEFT, RIGHT ✓ Full Outer Joins & Audits ✓ Cross Join & Table Combination ✓ Joining more than 2 tables ✓ Joining Tables with Aliases
Ch 10: Views & RLS ✓ Views: Realtime Usage ✓ Storing SELECT in Views ✓ DML, SELECT with Views ✓ RLS: Row Level Security ✓ WITH CHECK OPTION ✓ Database Audits & Metadata ✓ Important System Views	Ch 11: Stored Procedures ✓ Stored Procedures: Realtime Use ✓ Parameters Concept with SPs ✓ Procedures with SELECT ✓ System Stored Procedures ✓ Metadata Access with SPs ✓ SP Recompilations ✓ Stored Procedures, Tuning	Ch 12: User Defined Functions ✓ Using Functions in MSSQL ✓ Scalar Value Functions ✓ Inline & Multiline Functions ✓ Parameterized Queries ✓ Date & Time Functions ✓ String Functions & Queries ✓ Aggregated Functions & Usage

Ch 13: Triggers & Automations ✓ Need for Triggers ✓ DDL & DML Triggers ✓ For / After Triggers ✓ Instead Of Triggers ✓ Memory Tables with Triggers ✓ Data Replication, Automation ✓ Disabling DMLs & Triggers	Ch 14: Transactions & ACID ✓ Transaction Concepts in OLTP ✓ Transaction Types in Realtime ✓ Auto Commit, Explicit Transaction ✓ COMMIT, ROLLBACK ✓ Checkpoint & Logging ✓ Lock Hints & Query Blocking ✓ READPAST, LOCKHINT	Ch 15: Cursors & Fetch ✓ Cursors: Realtime Usage ✓ Cursor Declaration Types ✓ Open Cursor, Close Cursor ✓ Local & Global Cursors ✓ Scroll & Forward Only Cursors ✓ Static & Dynamic Cursors ✓ Fetch, Absolute Cursors
Ch 16: CTEs & Tuning ✓ Common Table Expression ✓ Creating and Using CTEs ✓ CTEs, In-Memory Processing ✓ Using CTEs for DML Operations ✓ Using CTEs for Data Retrieval ✓ Using CTEs for Tuning ✓ CTEs: Duplicate Row Deletion	Ch 17: Relations, Normal Forms ✓ Adding PK to Tables ✓ Adding FK to Tables ✓ Cascading Keys ✓ Self Referencing Keys ✓ Database Diagrams ✓ Normal Forms: 1 NF, 2 NF ✓ 3 NF, BCNF and 4 NF	Ch 18: Self Joins, EXISTS ✓ Joining same table ✓ Correlated Queries ✓ Joining Tables, Queries ✓ Self Joins with WHERE ✓ Self Joins with UNION ✓ Self Joins with Order By ✓ Self Joins with Views
Ch 19: Remote Joins ✓ Working with Multiple Servers ✓ Multi Server Access from SSMS ✓ Linked Servers Creation, Tests ✓ 4 Part Naming Convention ✓ Remote Data Access ✓ RPC & RPC OUT ✓ Remote Joins & Data Analysis	Ch 20: Sub Queries ✓ Sub Queries Concept ✓ Sub Queries & Aggregations ✓ Joins with Sub Queries ✓ Sub Queries with Aliases ✓ Sub Queries with Order By ✓ Sub Queries with WHERE ✓ Sub Queries, Joins, Where	Ch 21: Group By Queries ✓ Group By, Distinct Keywords ✓ GROUP BY, HAVING ✓ Cube() and Rollup() ✓ Sub Totals & Grand Totals ✓ Grouping() & Usage ✓ Group By with UNION ✓ Group By with UNION ALL
Ch 22: Joins with Group By ✓ Joins with Group By ✓ 3 Table, 4 Table Joins ✓ Join Queries with Aliases ✓ Join Queries & WHERE ✓ Join Queries & Group By ✓ Joins with Sub Queries ✓ Query Execution Order	Ch 23: Data Types & Conversions ✓ Integer Data Types ✓ Character, MAX Data Types ✓ Decimal & Money Data Types ✓ Boolean & Binary Data Types ✓ Date and Time Data Types ✓ Table, SQL_Variant Types ✓ Cast() and Convert() Functions	Ch 24: Window Functions, CASE ✓ IIF Function and Usage ✓ IIF with Tables, Joins ✓ CASE Statement Usage ✓ Window Functions (Rank) ✓ Row_Number() ✓ Rank(), DenseRank() ✓ Partition By & Order By
Mini Project (Can be used in Resume)		

Module 2: Power BI

Ch 1: Power BI Intro, Installation ✓ Power BI Eco System ✓ Report Types & Usage	Ch 2: Report Design Concepts ✓ Basic Report Design (PBIX) ✓ Get Data, Canvas (Design)	Ch 3: Visual Interactions, PBIT ✓ Data View Concepts ✓ Visual Interactions & Edits
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✓ Power BI Tools, Cloud ✓ Power BI Components ✓ Power Query (M), DAX ✓ Power BI: Co-Pilot & AI ✓ Power BI Installations	✓ Data View, Data Models ✓ Data Points, Aggregations ✓ Focus Mode, Spotlight ✓ PDF Exports From Power BI ✓ ToolTip, PBIX Reports	✓ Limitations with Visual Edits ✓ Creating Power BI Templates ✓ CSV Exports & PBIT Imports ✓ Optimizing Power BI: Caching ✓ PBIX Versus PBIT
Ch 4: Grouping, Hierarchies ✓ Power BI : Field Values ✓ Field Value Groups ✓ Creating Groups : Lists ✓ Creating Groups: Bins ✓ List Items & Group Edits ✓ Bin Size & Bin Count	Ch 5: Slicer & Visual Sync ✓ Slicer Visual in Power BI ✓ Slicer: Format Options ✓ Single Select, Multi Select ✓ Slicer: Select All On / Off ✓ Integer, Character Slicers ✓ Visual Sync with Slicers	Ch 6: Hierarchies & Drill-Down ✓ Hierarchies: Creation, Use ✓ Hierarchies: Advantages ✓ Drill Up, Drill Down ✓ Conditional Drill Down ✓ Filtered Drill Down ✓ Table View of Data Points
Ch 7: Filters & Drill Thru ✓ Power BI Filters ✓ Basic, Top & Advanced ✓ Visual Filters, Page Filters ✓ Report Level Filters ✓ Clear Filter Options, Resets ✓ Drill Thru Filters & Usage	Ch 8: Bookmarks, Buttons ✓ Power BI Bookmarks ✓ Bookmarks Creation, Use ✓ Images: Actions, Bookmarks ✓ Buttons: Actions, Bookmarks ✓ Page to Page Navigations ✓ Score Cards, Master Pages	Ch 9: SQL DB Access & Big Data ✓ SQL DB Access , Queries ✓ Storage Modes: Direct Query ✓ Formatting & Date Time ✓ Storage Modes in Power BI ✓ Storage Modes & Formatting ✓ Azure (Big Data) Access
Ch 10: Power BI Visualizations ✓ Charts, Bars, Lines, Area ✓ TreeMaps & HeatMaps ✓ Funnel, Card, Multrow Card ✓ PieCharts & Waterfall ✓ Scatter Chart, Play Axis ✓ Infographics, Classifications	Ch 11: Power Query Introduction ✓ Power Query (Mashup) ✓ ETL Transformations in PBI ✓ Power Query Expressions ✓ Table Combine Options ✓ Merge, Union All Options ✓ Close, Apply & Visualize	Ch 12: Power Query : Table Tfns ✓ Table Duplicate, Reference ✓ Group By Transformation ✓ Aggregate, Pivot Operation ✓ First Row as Header ✓ Reverse Rows, Count Rows ✓ Advanced Power Query Mode
Ch 13: Power Query: Column Tfn ✓ Any Column Transformations ✓ Change Data Type ✓ Detect Data Type ✓ Rename, Replace, Move ✓ Fill Up, Fill Down ✓ Step Edits & Rollbacks	Ch 14: Power Query: Text, Date ✓ String / Text Transformations ✓ Split, Merge, Extract, Format ✓ Numeric and Date Time ✓ Add Column & Expressions ✓ Expressions and New Columns ✓ Column From Examples	Ch 15: Power Query: Parameters ✓ Parameters in Power Query ✓ Static Parameters, Defaults ✓ Dynamic Dropdowns, Lists ✓ Linking with Table Queries ✓ Column From Examples ✓ Step Edits, Type Conversions

Ch 16: Power BI Cloud: Publish ✓ Power BI Cloud Concepts ✓ Workspace Creation, Usage ✓ Workspace Items ✓ Report Publish Cloud ✓ Report Edits in Cloud ✓ Semantic Models & Usage	Ch 17: Power BI Cloud Dashboards ✓ Power BI Dashboards ✓ Dashboard Creation, Usage ✓ Pin Visuals ✓ Pin LIVE Pages ✓ Add Image, Video Tiles ✓ Q&A & Pin Tiles	Ch 18: Power BI Cloud ✓ Report Shares, Alerts ✓ Subscriptions, Exploration ✓ Downloads & Edits ✓ Cloning in Cloud ✓ QR Codes, Web Publish ✓ Lineage & Metrics
Ch 19: Power BI Cloud Gateways ✓ Data Gateways, Data Refresh ✓ Install, Configure Gateways ✓ Data Sources Configurations ✓ Dataset Configurations ✓ Data Refresh & Scheduling ✓ Gateway Optimizations	Ch 20: Power BI Cloud Apps ✓ Power BI Apps: Creation ✓ App Sections & Content ✓ Audience Options ✓ App Security & Sharing ✓ App Updates, Favourites ✓ App URL, End User Access	Ch 21: Power BI Report Server ✓ Power BI Report Server ✓ Report Server Vs Cloud ✓ Installation, Configuration ✓ RS Config Tool Options ✓ Report Database, TempDB ✓ Web Service & Server URL
Ch 22: Paginated Reports ✓ Report Builder Tool ✓ Paginated Report (RDL) ✓ SQL Database Access ✓ SQL Queries For RDL ✓ Tablix, Chart Wizards ✓ Fields & Drill-Down ✓ RDL Report Publish	Ch 23: DAX Concepts (Basics) ✓ DAX Concepts (Introduction) ✓ DAX : Realtime Use ✓ DAX Columns: Creation, Use ✓ DAX Measures: Creation, Use ✓ DAX Functions: IIF, ISBLANK ✓ SUM, CALCULATE Functions ✓ DAX Cheat Sheet	Ch 24: DAX Quick Measures ✓ Quick Measures in Power BI ✓ Average & Filters ✓ Running Totals ✓ Star Rating Calculations ✓ DAX Measures in Data View ✓ DAX in Visuals ✓ DAX in Cloud Reports
Ch 25: Data Modelling, DAX ✓ Dimensions Tables ✓ Fact Tables & DAX Measures ✓ Data Models & Relations ✓ DAX Expressions ✓ Star & Snowflake Schemas ✓ DAX Joins & Expressions	Ch 26: DAX Joins, Variables ✓ CALCULATEX & Variables ✓ COUNT, COUNTA, etc.. ✓ SUM, SUMX, etc.. ✓ SELECTED MEMEBER ✓ Filter Context, RETRUN ✓ Dynamic Report with DAX	Ch 27: 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 28: DAX - Row Level Security ✓ RLS: Row Level Security ✓ Data Modelling & Roles ✓ Verify Roles (Testing) ✓ Add Cloud Users to Roles ✓ Dynamic Row Level Security ✓ Testing RLS in Power BI	Ch 29: Analytical Reports ✓ Analytical Report Concepts ✓ Excel Data Analytics ✓ Excel with Power BI Cloud ✓ SQL, AVRO, JSON Sources ✓ Analyze in Excel (Cloud) ✓ Excel Reports to Cloud	Ch 30: Introduction to CoPilot ✓ AI Components in Power BI ✓ Need for CoPilot ✓ CoPilot Practical Uses ✓ CoPilot with Desktop ✓ CoPilot with Cloud ✓ Need for AI Analytics (Fabric)

Ch 31: Realtime Project – Phase 1 ✓ Customer Requirement ✓ Requirement Analysis ✓ Project Planning ✓ Creating Data Sheets ✓ Creating Data Models ✓ Scope of the Project ✓ Data Sheets, Project Planning	Ch 32: Realtime Project – Phase 2 ✓ Report Design & Modelling ✓ Power Query Implementation ✓ DAX & Data Analytics ✓ Power BI Cloud (Service) ✓ Power BI Report Server ✓ End User Take Aways ✓ Implementation Phases	Ch 33: PL 300 Exam Guidance ✓ PL 300 Exam Benefits ✓ Data Analyst Exam Pattern ✓ Type of Questions ✓ Sample Questions, Answers ✓ Mock Certification ✓ Resume Guidance ✓ Mock Interviews
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Module 3: Python Analytics

Ch 1: Python Introduction ✓ Need for Data Analytics ✓ Python in Data Analysis ✓ History of Python ✓ Python Versions ✓ Python Implementations ✓ Python Installations ✓ Python IDE & Usage ✓ Jupyter Notebooks	Ch 2: Python Basics, Architecture ✓ Python Scripting Options ✓ Basic Operations in Python ✓ Python Scripts, Print() ✓ Single, Multiline Statements ✓ Adding Cells, Saving Notebook ✓ Single, Multi Line Comments ✓ Python : Internal Architecture ✓ Compiler Versus Interpreter	Ch 3: Data Types & Variables ✓ Integer / Int Data Types ✓ Float & String Data Types ✓ Boolean, Binary Types ✓ Sequence Types: List, Tuple ✓ Range, Complex & memview ✓ Retrieving Data Type: type() ✓ Multi Assignments & Casting ✓ Unpack Collection, Outputs
Ch 4: Python Operators ✓ Arithmetic, Assignment Ops ✓ Comparison Operators ✓ Logical, Identity Operators ✓ Member, Bitwise Operators ✓ Operator Precedence ✓ If ... Else Statement, Pass ✓ Short Hand If, OR, AND ✓ ELIF and ELSE IF Statements ✓ Expressions, Ternary OPs	Ch 5: Python Loops, Iterations ✓ Python Loop & Realtime Use ✓ Python While Loop Statement ✓ Break and Continue Statement ✓ Using Print with While() ✓ Iterations & Conditions ✓ Exit Conditions & For Loops ✓ Break, Continue & Range ✓ __iter__() and __next__() ✓ iter() and Looping Options	Ch 6: Python Collections ✓ Python Collections (Arrays) ✓ list() Constructor, print() ✓ Python Tuples, Tuple Items ✓ tuple() Constructor, Usage ✓ Python Sets : Syntax Rules ✓ Duplicates, Types, Ordered ✓ Python Dictionaries: Usage ✓ Changeable, Ordered Data ✓ Dictionary Construct, type()

Ch 7: Python Functions ✓ Python Functions & Usage ✓ Function Parameters ✓ Arguments, **kwargs ✓ Default & List Parameters ✓ Python Lambda Functions ✓ Anonymous Functions ✓ Recursive Functions, Usage ✓ Return & Print @ Lambda	Ch 8: Python Classes & Arrays ✓ Python Classes & Objects ✓ __init__() Function ✓ __str__() Function ✓ Self Parameters & Objects ✓ Python Inheritance & Classes ✓ Parent & Child Classes ✓ __init__() & super() Function ✓ Polymorphism in Python	Ch 9: Python Modules ✓ import Python Modules ✓ Variables in Modules ✓ Built In Modules & dir ✓ datetime module in Python ✓ Date Objections Creation ✓ strftime Method & Usage ✓ imports & datetime.now() ✓ Using Python Constructors
Ch 10: Python JSON & RegEx ✓ JSON Concepts, Usage ✓ Dictionary & import json ✓ Python Objects into JSON ✓ Formatting & Ordering ✓ json.dumps, print options ✓ Python Regular Expressions ✓ RegEx Module & Functions ✓ search() & span() , Strings ✓ Using RegEx with JSON	Ch 11: Python User Inputs & TRY ✓ Try Except, Exception Handling ✓ NameError Resolution ✓ Python Finally Block, Usage ✓ Raise an exception method ✓ TypeError, Scripting in Python ✓ Python User Inputs ✓ Python Index Numbers ✓ Named Indexes, Usage ✓ input() & raw_input()	Ch 12: Python File Handling ✓ File Handling, Activities ✓ r, a, w, x modes ✓ t, b Operations ✓ Read Only Parts ✓ Loop, Write, Close Files ✓ Appending, Overwriting ✓ import os, path.exists ✓ f.open, f.write ✓ f.read, f.close
Ch 13: Data Analytics - Pandas ✓ Python Modules & Pandas ✓ Pandas Codebase & Usage ✓ Installation of Pandas ✓ import pandas.DataFrame ✓ Checking Pandas Version ✓ Pandas Series, arrays ✓ Labels : Creation, Use ✓ series(), print()	Ch 14: Data Analytics - DataFrames ✓ Indexes & Named Options ✓ Locate Row and Load Rows ✓ Row Index & Index Lists ✓ Load Files Into a DataFrame ✓ pd.read_csv() Function ✓ pd.options.display.max_rows ✓ df.to_string() Function ✓ tail() & null() Function	Ch 15: Pandas Transformations ✓ Pandas - Cleaning Data ✓ Replace, Transform Columns ✓ Data Discovery & Column Fill ✓ Identify & Remove Duplicates ✓ dropna(), fillna() Functions ✓ Pandas - Data Correlations ✓ Good & Bad Correlation ✓ Data Plotting & matplotlib Lib
Ch 16: SQL Server & Python - 1 ✓ SQL Server DB Engine ✓ Azure Data Studio Tool ✓ sp_execute_external_script ✓ Input Data & Result Sets ✓ DDL & DML with Python ✓ SQL_out, SQL_in ✓ Variables & Parameters ✓ Versions, Package List ✓ WITH RESULT SETS Options	Ch 17: SQL Server & Python - 2 ✓ pandas.Series with SQL Server ✓ Indexing Methods in Realtime ✓ Convert series to data frame ✓ Output values into data.frame ✓ pymssql package in SQL Server ✓ pip list & Package Manager ✓ Python runtime, Py Package ✓ pymssql.connect & Usage ✓ Cursor Variables & Usage	Ch 18: Power BI with Python ✓ Using Python Script Visual ✓ PyScript Options & Tuning ✓ Settings, Labelling Options ✓ Running and Testing Scripts ✓ Data Validations in Power BI ✓ Power BI: ipynb Scripts ✓ Interactive Reports ✓ Data Formatting with Python ✓ End to End Realtime Projects

Module 4: Advanced Excel & Data Analytics

Ch 1: Basic Functions ✓ Excel Analytics ✓ SUM, AVERAGE, AGGR ✓ COUNT, COUNTA ✓ Absolute, Mixed ✓ Relative Referencing	Ch 2: Formatting and Proofing ✓ Currency Format ✓ Format Painter ✓ Formatting Dates ✓ Custom and Special Formats ✓ Formatting Cells	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 ✓ ToCh, Now ✓ Ch, Month, Year ✓ Date, Date if, Date Add ✓ EOMONTH ✓ Week Functions
Ch 7: Adv. Techniques ✓ Paste Formulas ✓ Paste Formats ✓ Paste Validations ✓ Transpose Tables ✓ Excel Analytics ✓ Excel Expressions	Ch 8: New in Excel 365 - 1 ✓ Charts – Tree map & Waterfall ✓ Sunburst, Box and whisker Charts ✓ Combo Charts – Secondary Axis ✓ Slicers Tool in Pivot & Tables ✓ Using Power Map and Power View ✓ Forecast Sheet, park lines	Ch 9: New in Excel 365 - 2 ✓ Using 3-D Map ✓ New Controls in Pivot Table ✓ Various Time Lines ✓ Auto complete a data range ✓ Quick Analysis Tool ✓ Smart Lookup manage Store
Ch 10: Printing Workbooks ✓ Setting Up Print Area ✓ Customizing Headers ✓ Templates ✓ Print Titles – Repeat Rows ✓ Real-world Considerations	Ch 11: Sorting and Filtering ✓ Filtering on Text ✓ Numbers & Colours ✓ 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 ✓ Excel Functions ✓ Excel Math Options	Ch 14: Data Validation ✓ Number, Date & Time ✓ Text and List Validation ✓ Custom validations formulas ✓ Dynamic Dropdowns ✓ Realtime Considerations ✓ Smooth User Interface	Ch 15: Lookup Functions ✓ V lookup / H Lookup ✓ Index and Match ✓ Nested V Lookup ✓ Reverse Lookup ✓ Worksheet linking ✓ V lookup with Helper

Ch 16: Pivot Tables - 1 ✓ Creating Simple Pivot Tables ✓ Classic Pivot table ✓ Choosing Field ✓ Filtering PivotTables ✓ Modifying PivotTable Data ✓ Grouping ✓ Calculated Fields	Ch 17: Pivot Tables - 2 ✓ Array with IF, LEN ✓ MID function formulas. ✓ Array with Lookup functions. ✓ Various Charts ✓ SLICERS, Filter data ✓ Manage Primary Axis ✓ Manage Secondary Axis	Ch 18: Excel Dashboard ✓ Planning a Dashboard ✓ Adding Tables ✓ Charts to Dashboard ✓ Dynamic Contents ✓ Dashboard URLs ✓ Dashboard Shares ✓ Dashboard in Cloud
Ch 19: VBA Macro - 1 ✓ Using Outlook Namespace ✓ Send automated mail ✓ Outlook Configurations ✓ MAPI Options ✓ Worksheet Operations ✓ Workbook Operations	Ch 20: VBA Macro - 2 ✓ Merge Worksheets ✓ Macro Options ✓ Merge excel files ✓ Split worksheets ✓ VBA Worksheet copiers ✓ Realtime Usage	Ch 21: Agile Features ✓ Using Agile ✓ Business Analytics Options ✓ Business Analyst Job Roles ✓ Technical Specifications ✓ RFPs and process ✓ Realtime Job Roles
Agile & Realtime Integrations with Project Work, Resume Guidance		

🔒 Module 5: AI, CoPilot with Data Analytics 🔒

Chapter 1: Fundamental AI Concepts

- AI: Artificial Intelligence
- Real-time Implementation
- Understand Computer Vision
- Understand Natural Language Processing
- Document Intelligence and Knowledge Mining
- Understand Generative AI
- Challenges and Risks with AI
- Understand Responsible AI

Chapter 2: Fundamentals of AI services

- AI Services on Azure platform
- Create Azure AI Service Resources
- Use Azure AI services
- Understand Authentication for Azure AI services
- Exercise - Explore Azure AI Services

Chapter 3: Computer Vision

- Images and image processing

- Machine learning for computer vision
- Azure AI Vision
- Exercise - Analyze images in Vision Studio

Chapter 4: Natural Language Processing

- Understand Text Analytics
- Text Analysis in Azure
- Exercise - Analyze text with Language Studio

Chapter 5: Document Intelligence and Knowledge Mining

- Introduction to Document Intelligence
- Knowledge Mining
- Explore capabilities of document intelligence
- Receipt Analysis on Azure
- Exercise - Extract from data in Document Intelligence Studio

Chapter 6: Generative AI

- What is generative AI?
- What are language models?
- Using language models
- What are copilots?
- Considerations for Copilot prompts
- Extending and developing copilots
- Exercise - Explore Microsoft Copilot

Chapter 7: Generative AI in Azure

- Generative AI - Capabilities within AI in Azure
- Azure Implementation of Gen AI
- Processing Images, Codes and more

Chapter 8: CoPilot with Data Analytics - 1

- Implementing AI in Cloud
- Co-Pilot Concepts in Big Data
- AI with Azure
- AI with Azure SQL Database
- Automated Query Tuning Concepts (OLTP)

Chapter 9: CoPilot with Data Analytics - 2

- AI with Power BI
- CoPilot with Power BI – Power Query
- CoPilot with Power BI – Cloud
- CoPilot with Power BI – DAX
- CoPilot with Power BI – Excel Analytics

Module 6: Tableau

Ch 1: Tableau Intro, Installation ✓ Introduction to Reports, Tableau ✓ Report Types, Data Sources ✓ Basic Understanding, Workflow ✓ Tableau as a Self Service BI Tool ✓ Tableau Features, Advantages ✓ Tableau Public Desktop ✓ Tableau Prep Tools - Modelling ✓ Tableau Training Course Plan, Lab ✓ Study Material, Certifications	Ch 2: Basic Report Design ✓ Tableau Public Desktop ✓ Worksheet Creation, Options ✓ Row Shelf & Column Shelf ✓ Text, Detail, Tooltip, Colours ✓ VizQL , Dimension, Measures ✓ Marks, Shelves, Axis ✓ Grouping on Static Data ✓ Dynamic Data Grouping ✓ Hierarchies: Real-time Use	Ch 3: Architecture, Joins ✓ Drilldown Reports ✓ Data Sources, Connectors ✓ Tableau Server Components ✓ VizQL Server, Data Engine ✓ Fast Data Engine, Gateway ✓ Alias, Bins, Bookmarks ✓ Dashboards, Data Pane ✓ Data Source and Dimensions ✓ Using Joins in Tableau
Ch 4 : Big Data Access, Blending ✓ Azure SQL Database Access ✓ Remote Data Sources and Joins ✓ Using SQL Queries in Tableau ✓ Use Azure SQL Warehouse ✓ Data Blending in Tableau ✓ Reports with Multiple Sources ✓ Data Combination, Aggregation ✓ Show Data & Data Grouping ✓ Tableau Operators and Functions ✓ Tableau Calculations and Formats ✓ Calculations From Shelves	Ch 5 : String, Date Functions ✓ ASCII, CHAR, LEN, ENDswith ✓ FIND, FINDNTH, LEFT, CONTAINS ✓ LOWER, UPPER, LTRIM, RTRIM ✓ MID, MIN, REPLACE, RIGHT ✓ SPACE, SPLIT, UPPER, MAX ✓ STARTSWITH, AND, CASE ✓ ELSE, ELSEIF, END, IF, IIF ✓ IFNULL, ISDATE, ISNULL, MAX ✓ MIN, NOT, OR, THEN, WHEN ✓ DATEPART, DATETRUNC, CH ✓ ISDATE, MAKEDATE, MONTH ✓ NOW, QUARTER, TOCH, YEAR	Ch 6 : Table, LOD Calculations ✓ Custom Calculations, Appends ✓ Custom Date, Time Formatting ✓ Calculations Reuse and Edits ✓ Date and Time Conversions ✓ Two Digit Conversions ✓ Table Functions with Tableau ✓ Running Total, Row Number ✓ Case, FIRST, LOOKUP ✓ Calculations, Level of Details ✓ Partitioning, LOD ✓ FIXED, INCLUDE, EXCLUDE
Ch 7 : Tableau Viz - Level 1 ✓ Tableau Visualizations - Types ✓ Tableau Bar Charts and Types ✓ Horizontal, Coloured Bar Charts ✓ Stacked Bar Charts, Measures ✓ Side By Side Bar Charts and Use ✓ Interactive Bar Charts & Filters ✓ Continuous & Discrete Charts ✓ Dual, Area, Stacked, Combined	Ch 8 : Tableau Viz - Level 3 ✓ Pie, Stacked Pie Charts ✓ Side By Side Pie Charts ✓ Reverse and Row Count ✓ Donut Charts and Angle ✓ CrossTab Charts, Drill Downs ✓ Conditional Formatting ✓ Quick Calculations, Wishker ✓ Heat Maps in Real-time	Ch 9 : Tableau Viz – Level 3 ✓ Treemaps, Nested Rectangles ✓ Marks Type, and Label ✓ Treemaps with Bars & Tables ✓ Circle View Visualization ✓ Scatter Plot, Packed Bubbles ✓ Symbol Maps, Filled Maps ✓ Histograms, Motion Charts ✓ Bullet Graphs, Dimensions
Ch 10 : Tableau Filters ✓ Tableau Filters - Types & Usage ✓ Extract Filters, TDE (hyper) ✓ Data Source Filters (twb Files) ✓ Extract History, TDE Files ✓ Context Filters and Performance ✓ Measure Filters and Aggregations ✓ Filters Scope and Quick Filters	Ch 11: Parameters & Sets ✓ Tableau Parameters ✓ Link Parameters, Calculations ✓ Calculations in Fields/View ✓ Dynamic Filters & Dimension ✓ Dynamic Measure, Parameters ✓ Sets : IN and OUT, Filters ✓ Sets & Groups & Hierarchies	Ch 12 : Forecasts, Actions ✓ Trend Lines, Reference Lines ✓ Forecasts, Smoothing ✓ Adding / Editing Bookmarks ✓ Data Analytics in Tableau ✓ Tableau Actions and Types ✓ Filter Actions: Static/Dynamic ✓ Highlights, Dynamic Types

Ch 13 : Dashboards & Stories ✓ Dashboards and Stories ✓ Building Dashboards ✓ Dashboard Size, Views, Objects ✓ Legends and Quick Filters ✓ Tiles, Layouts, Containers ✓ Dashboard Extensions, APIs ✓ Story Points, Bollinger Bands ✓ Data Cleansing – Tableau Prep	Ch 14 : Tableau Server ✓ Tableau Server - Architecture ✓ Tableau Server - Installation ✓ Publish Workbook, Shares ✓ Device & Custom Layouts ✓ Java Script API in Server ✓ Tableau Online Vs Server ✓ Security Advantages ✓ Adding Custom Layouts	Ch 15: Tableau Online ✓ Tableau Online: LIVE Reports ✓ Projects and Workbooks ✓ Tableau Report Views ✓ Custom Views, Comments ✓ Downloads, Exports ✓ Share, Subscribe, favourites ✓ Web Authoring, Publish Online ✓ Alerts, Snapshots, Phone Marks
Ch 16 : Collaborate Tableau ✓ Collaborate Tableau Server ✓ Account Settings, Drill Down ✓ Custom Views, Comments ✓ Downloads and Exports ✓ Sharing, Subscription ✓ Web Authoring, Edits ✓ Data Driven Alerts ✓ Stacked Bars, Alerting Views ✓ Navigations, Snapshots ✓ Interacting with Content	Ch 17 : Manage Tableau ✓ Administration Concepts ✓ Tableau Sites, Users, Groups ✓ Permissions & Locking ✓ Data Security & Filters ✓ Access Roles, Extraction ✓ Tableau Services Manager ✓ Browser, Maintenance, CLI ✓ TSM Backups and Restores ✓ TSM Upgrades For Tableau ✓ Tabcmd & Realtime Use	Ch 18th: Realtime Projects Phase 1: Tableau Report Design; Visualizations; Analytics, Formatting; Phase 2: Data Modelling, Tableau Prep; Dynamic Connections, Azure DB; Parameters and VizQL Scripts Phase 3: Cloud and Server; Project FAQs and Solutions

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With our 100% Hands-On, Step by Step Trainings

FIVE Realtime Projects !