

## 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. It is basically, an art to understand the data, identify the implementation areas, plan work items and ensure consistent customer delivery and work item processing.


### 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 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








Quality Training Assured

**100% Practical, Step by Step**

- Basic to Advanced Business Analysis
- 100% Step by Step Training Classes
- Creating, Analyzing User Requirements
- Working with User Stories
- Analyzing the Workflow
- Analyzing the Data Needs
- Concept Wise FAQs, Answers
- Real-time Projects & Solutions
- Resume Guidance, Mock Interviews

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**100% Practical, Realtime** → [www.sqlschool.com](http://www.sqlschool.com)

**Database Concepts, SQL Queries**   
**Power BI**   
**Python**   
**Tableau**   
**Agile** 

Duration: 4 Months  
**LIVE Online**  
Self Paced Videos

Our **Business Analysis** course includes 100% Realtime Training with Step by Step Practical Approach, Hands-On and Realtime Project for your resume. Mock Interviews and Certification Guidance part of this useful course.

S No	Module	Duration
1	Database Concepts, SQL & MSSQL Queries	3 Weeks
2	Power BI (Cloud, Report Server)	4 Weeks
3	Python Analytics	4 Weeks
4	Tableau	4 Weeks
5	Advanced Excel	2 Weeks
6	Agile Framework, Realtime End to End Project	1 Week
Total Duration		4.5 Months

## Business Analyst Training - Detailed Course Curriculum

### Module 1: SQL Server TSQL (MSSQL)

<b>Day 1: Introduction</b> <ul style="list-style-type: none"> <li>✓ Database Introduction</li> <li>✓ Types of Databases</li> <li>✓ Need for &amp; ETL, DWH</li> <li>✓ BI Implementations</li> <li>✓ SQL Server Advantages</li> <li>✓ Version, Editions of MSSQL</li> <li>✓ Data Engineering Job Roles</li> </ul>	<b>Day 2: Installations</b> <ul style="list-style-type: none"> <li>✓ SQL Server 2019, 2017</li> <li>✓ SSMS Tools Installation</li> <li>✓ Database Engine (OLTP)</li> <li>✓ SCM, Configuration Tools</li> <li>✓ Instance Types, Uses</li> <li>✓ Authentication Modes</li> <li>✓ Collation, File Stream</li> </ul>	<b>Day 3: SQL Basics - 1</b> <ul style="list-style-type: none"> <li>✓ Need for Databases, Tables</li> <li>✓ Need for SQL Commands</li> <li>✓ DDL, DML &amp; DQL Statements</li> <li>✓ Database Creation @ GUI</li> <li>✓ Data Operations @ GUI</li> <li>✓ Session ID, SQL Context</li> <li>✓ DB, Tables, Data @ SQL</li> </ul>
<b>Day 4: SQL Basics - 2</b> <ul style="list-style-type: none"> <li>✓ DDL Variants in MSSQL</li> <li>✓ DML Variants in MSSQL</li> <li>✓ INSERT &amp; INSERT INTO</li> <li>✓ SELECT &amp; SELECT INTO</li> <li>✓ Basic Operators in SQL</li> <li>✓ Special Operators in MSSQL</li> <li>✓ ALTER, ADD, TRUNCATE, DROP</li> </ul>	<b>Day 5: Data Imports, Schemas</b> <ul style="list-style-type: none"> <li>✓ Data Imports with Excel</li> <li>✓ ORDER BY &amp; UNION</li> <li>✓ UNION ALL For Sorting Data</li> <li>✓ Creating, Using Schemas</li> <li>✓ Real-world Banking Database</li> <li>✓ Table Migrations @ Schemas</li> <li>✓ 2 Part, 3 Part &amp; 4 Part Naming</li> </ul>	<b>Day 6: Constraints, Index Basics</b> <ul style="list-style-type: none"> <li>✓ Need for Constraints, Keys</li> <li>✓ NULL, NOT NULL, UNIQUE</li> <li>✓ Primary Key &amp; Foreign Key</li> <li>✓ RDBMS and ER Models</li> <li>✓ Identity Property, Default</li> <li>✓ Clustered Index, Primary Key</li> <li>✓ Non Clustered Index, Unique</li> </ul>
<b>Day 7: Joins &amp; Views Basics</b> <ul style="list-style-type: none"> <li>✓ JOINS: Purpose. Inner Joins</li> <li>✓ Left / Right / Full Outer Joins</li> <li>✓ Cross Joins, Query Tuning</li> <li>✓ Creating &amp; Using Views</li> <li>✓ DML, SELECT with Views</li> <li>✓ RLS : WITH CHECK OPTION</li> <li>✓ System Views &amp; Metadata</li> </ul>	<b>Day 8: Functions(UDF), Data Types</b> <ul style="list-style-type: none"> <li>✓ Using Functions in MSSQL</li> <li>✓ Scalar Value Functions</li> <li>✓ Inline &amp; Multiline Functions</li> <li>✓ Date &amp; Time Functions</li> <li>✓ String, Aggregate Functions</li> <li>✓ Data Types : Integer, Char, Bit</li> <li>✓ SQL Variant, Timestamp, Date</li> </ul>	<b>Day 9: Stored Procedures, Models</b> <ul style="list-style-type: none"> <li>✓ Stored Procedures &amp; Usage</li> <li>✓ Creating, Testing Procedures</li> <li>✓ Encryption, Deferred Names</li> <li>✓ SPs for Validations, Analysis</li> <li>✓ System SPs, Recompilation</li> <li>✓ Normal Forms &amp; Types</li> <li>✓ Data Models, Self-References</li> </ul>
<b>Day 10: Triggers, Temp Tables</b> <ul style="list-style-type: none"> <li>✓ Need for Triggers</li> </ul>	<b>Day 11: DB Architecture, Locks</b> <ul style="list-style-type: none"> <li>✓ Planning VLDBs : Files, Sizing</li> </ul>	<b>Day 12: Cursors &amp; CTEs, Links</b> <ul style="list-style-type: none"> <li>✓ Cursors : Realtime Use</li> </ul>

<ul style="list-style-type: none"> <li>✓ DDL &amp; DML Triggers</li> <li>✓ Using Memory Tables</li> <li>✓ Data Replication, Automation</li> <li>✓ Local &amp; Global Temp Tables</li> <li>✓ Testing &amp; Using Temp Tables</li> <li>✓ SELECT .. INTO &amp; Bulk Loads</li> </ul>	<ul style="list-style-type: none"> <li>✓ Filegroups, Extents &amp; Types</li> <li>✓ Log Files : VLF, Mini LSN</li> <li>✓ Table Location, Performance</li> <li>✓ Schemas, Transfer, Synonyms</li> <li>✓ Transactions Types, Lock Hint</li> <li>✓ Query Blocking Scenarios</li> </ul>	<ul style="list-style-type: none"> <li>✓ Fetch &amp; Access Cursor Rows</li> <li>✓ CTEs for SELECT, DML</li> <li>✓ CTEs: Scenarios &amp; Tuning</li> <li>✓ Linked Servers, Remote Joins</li> <li>✓ Linked Servers: MSDTC, RPC</li> <li>✓ Tuning Remote Queries</li> </ul>
<p><b>Day 13: Merge, Upsert &amp; Rank</b></p> <ul style="list-style-type: none"> <li>✓ Need for Merge in ETL</li> <li>✓ Incremental Loads with SQL</li> <li>✓ MERGE and RANK Functions</li> <li>✓ Window Functions, Partition</li> <li>✓ Identify, Remove Duplicates</li> </ul>	<p><b>Day 14: Grouping &amp; Cube</b></p> <ul style="list-style-type: none"> <li>✓ Group By &amp; HAVING</li> <li>✓ Cube, Rollup &amp; Grouping</li> <li>✓ Joins with Group By</li> <li>✓ 3 Table, 4 Table Joins</li> <li>✓ Query Execution Order</li> </ul>	<p><b>Day 15: Self Joins, Excel Analysis</b></p> <ul style="list-style-type: none"> <li>✓ Self Joins &amp; Self References</li> <li>✓ UNION, UNION ALL</li> <li>✓ Sub Queries with Joins</li> <li>✓ IIF, CASE, EXISTS Statements</li> <li>✓ Excel Analytics, Pivot Reports</li> </ul>
<p><b>Realtime Case Study : Health-Care Domain</b></p>		

## Module 2 : Power BI

<p><b>Day 1: Power BI Introduction</b></p> <ul style="list-style-type: none"> <li>✓ Reporting Basics &amp; Types</li> <li>✓ Interactive, Analytical Reports</li> <li>✓ Paginated Reports (RDL)</li> <li>✓ Power BI Eco System</li> <li>✓ Power BI Tools, Service, Server</li> <li>✓ Need for Power Query (M)</li> <li>✓ Need for DAX &amp; Cloud</li> </ul>	<p><b>Day 2: Power BI Basic Reports</b></p> <ul style="list-style-type: none"> <li>✓ Power BI Desktop Installation</li> <li>✓ Basic Report Design (PBIX)</li> <li>✓ Data View, Data Models</li> <li>✓ Data Points, Aggregations</li> <li>✓ Focus Mode, Spotlight, Exports</li> <li>✓ ToolTip, PBIX and PBIT</li> <li>✓ Visual Interactions &amp; Edits</li> </ul>	<p><b>Day 3: Grouping, Hierarchies</b></p> <ul style="list-style-type: none"> <li>✓ Creating Groups in Power BI</li> <li>✓ Groups : Creation &amp; Usage</li> <li>✓ Group Edits Options</li> <li>✓ Bins &amp; Bin Size, Bin Count</li> <li>✓ Hierarchies: Creation, Use</li> <li>✓ Drill Down, Drill Up</li> <li>✓ Conditional Drill Down</li> </ul>
<p><b>Day 4: Visual Sync, Filters</b></p> <ul style="list-style-type: none"> <li>✓ Slicer &amp; Single Select</li> <li>✓ Multi Select Options</li> <li>✓ Integer, Character Slicers</li> <li>✓ Visual Sync with Slicers</li> <li>✓ Filters: Visual, Page, Report</li> <li>✓ Drill Thru Filters &amp; Usage</li> <li>✓ Basic, Top &amp; Advanced</li> <li>✓ Clear Filter Options, Resets</li> </ul>	<p><b>Day 5: Bookmarks, Big Data Access</b></p> <ul style="list-style-type: none"> <li>✓ Bookmarks Creation &amp; Usage</li> <li>✓ Visual Interactions, Bookmarks</li> <li>✓ Images : Actions, Bookmarks</li> <li>✓ Big Data Access with Power BI</li> <li>✓ Storage Modes: Direct Query</li> <li>✓ Import &amp; Performance Impact</li> <li>✓ Formatting &amp; Data Refresh</li> <li>✓ Summary &amp; Date Time Formats</li> </ul>	<p><b>Day 6: Power BI Visualizations</b></p> <ul style="list-style-type: none"> <li>✓ Chart and Bar Visuals</li> <li>✓ Line and Area Charts</li> <li>✓ Maps, TreeMaps, HeatMaps</li> <li>✓ Funnel, Card, Multrow Card</li> <li>✓ PieCharts &amp; Settings</li> <li>✓ Waterfall, Sentiment Colors</li> <li>✓ Scatter Chart, Play Axis</li> <li>✓ Infographics, Classifications</li> </ul>
<p><b>Day 7: Power Query Level 1</b></p> <ul style="list-style-type: none"> <li>✓ Power Query (Mashup)</li> <li>✓ ETL Transformations in PBI</li> <li>✓ Power Query Expressions</li> <li>✓ Table Combine Options</li> <li>✓ Merge, Union All Options</li> </ul>	<p><b>Day 8: Power Query Level 2</b></p> <ul style="list-style-type: none"> <li>✓ Any Column Transformations</li> <li>✓ String / Text Transformations</li> <li>✓ Numeric Analytics &amp; Mashup</li> <li>✓ Date Time Transformations</li> <li>✓ Add Column Transformations</li> </ul>	<p><b>Day 9: Power Query Level 3</b></p> <ul style="list-style-type: none"> <li>✓ Parameters in Power Query</li> <li>✓ Static Parameters, Defaults</li> <li>✓ Dynamic Dropdowns, Lists</li> <li>✓ Linking with Table Queries</li> <li>✓ Column From Examples</li> </ul>

<ul style="list-style-type: none"> <li>✓ Table Transformations</li> </ul>	<ul style="list-style-type: none"> <li>✓ Expressions and New Columns</li> </ul>	<ul style="list-style-type: none"> <li>✓ Step Edits, Type Conversions</li> </ul>
<p><b>Day 10: Power BI Cloud - 1</b></p> <ul style="list-style-type: none"> <li>✓ Power BI Cloud Concepts</li> <li>✓ Workspace Creation, Usage</li> <li>✓ Report Publish &amp; Edits</li> <li>✓ Semantic Models in Realtime</li> <li>✓ Dashboard Creation, Usage</li> <li>✓ Clone, Share, Subscribe</li> <li>✓ Q&amp;A, Lineage, Settings</li> </ul>	<p><b>Day 11: Power BI Cloud - 2</b></p> <ul style="list-style-type: none"> <li>✓ Data Gateways, Data Refresh</li> <li>✓ Data Source Configurations</li> <li>✓ Data Refresh &amp; Scheduling</li> <li>✓ Gateway Optimizations</li> <li>✓ Semantic Model Optimizations</li> <li>✓ Report Optimizations</li> <li>✓ Dashboard Optimizations</li> </ul>	<p><b>Day 12: Power BI Cloud - 3</b></p> <ul style="list-style-type: none"> <li>✓ Power BI Apps, Shares</li> <li>✓ App Sections &amp; Options</li> <li>✓ App Updates, Security</li> <li>✓ Excel Analytics</li> <li>✓ Data Explorer Options</li> <li>✓ Sharing, Subscriptions</li> <li>✓ Alerts, Metrics, Insights</li> </ul>
<p><b>Day 13: Report Server &amp; RDL</b></p> <ul style="list-style-type: none"> <li>✓ Power BI Report Server</li> <li>✓ SQL Server DB Engine</li> <li>✓ Report Database, TempDB</li> <li>✓ Web Service &amp; Server URL</li> <li>✓ Paginated Reports (RDL)</li> <li>✓ Report Builder Tool Usage</li> </ul>	<p><b>Day 14: DAX Level 1</b></p> <ul style="list-style-type: none"> <li>✓ DAX : Purpose, Realtime Use</li> <li>✓ DAX Calculations Creation, Use</li> <li>✓ DAX Measures Creation, Use</li> <li>✓ DAX Functions: IIF, ISBLANK</li> <li>✓ SUM, CALCULATE Functions</li> <li>✓ DAX Cheat Sheet : Examples</li> </ul>	<p><b>Day 15: DAX Level 2</b></p> <ul style="list-style-type: none"> <li>✓ Quick Measures in Power BI</li> <li>✓ Running Totals, Filters</li> <li>✓ Star Rating Calculations</li> <li>✓ Data Models &amp; DAX</li> <li>✓ Star &amp; Snowflake Schemas</li> <li>✓ Dimensions, Fact Tables</li> </ul>
<p><b>Day 16: DAX Level 3</b></p> <ul style="list-style-type: none"> <li>✓ DAX Expressions &amp; Joins</li> <li>✓ DAX Variables, Usage</li> <li>✓ Dynamic Report with DAX</li> <li>✓ SELECTED MEMEBER</li> <li>✓ Time Intelligence with DAX</li> <li>✓ PARALLELPERIOD, DATE</li> </ul>	<p><b>Day 17: Realtime Project Phase 1</b></p> <ul style="list-style-type: none"> <li>✓ Project Requirement Spec</li> <li>✓ Understanding Data, Formats</li> <li>✓ Report Pattern Design</li> <li>✓ Report Design &amp; Modelling</li> <li>✓ Power Query, DAX, Insights</li> <li>✓ Analytical Reports in Cloud</li> </ul>	<p><b>Day 18: Realtime Project Phase 2</b></p> <ul style="list-style-type: none"> <li>✓ Complete Project Solution</li> <li>✓ Project FAQs, Key Roles</li> <li>✓ Real-world Considerations</li> <li>✓ Power BI Admin Concepts</li> <li>✓ Resume Points, FAQs</li> <li>✓ PL 300 Exam Guidance</li> </ul>

## Module 3: Python Analytics

<p><b>Day 1: Python Introduction</b></p> <ul style="list-style-type: none"> <li>✓ Need for Data Analytics</li> <li>✓ Python in Data Analysis</li> <li>✓ History of Python</li> <li>✓ Python Versions</li> <li>✓ Python Implementations</li> <li>✓ Python Installations</li> <li>✓ Python IDE &amp; Usage</li> <li>✓ Jupyter Notebooks</li> </ul>	<p><b>Day 2: Python Basics, Architecture</b></p> <ul style="list-style-type: none"> <li>✓ Python Scripting Options</li> <li>✓ Basic Operations in Python</li> <li>✓ Python Scripts, Print()</li> <li>✓ Single, Multiline Statements</li> <li>✓ Adding Cells, Saving Notebook</li> <li>✓ Single, Multi Line Comments</li> <li>✓ Python : Internal Architecture</li> <li>✓ Compiler Versus Interpreter</li> </ul>	<p><b>Day 3: Data Types &amp; Variables</b></p> <ul style="list-style-type: none"> <li>✓ Integer / Int Data Types</li> <li>✓ Float &amp; String Data Types</li> <li>✓ Boolean, Binary Types</li> <li>✓ Sequence Types: List, Tuple</li> <li>✓ Range, Complex &amp; memview</li> <li>✓ Retrieving Data Type: type()</li> <li>✓ Multi Assignments &amp; Casting</li> <li>✓ Unpack Collection, Outputs</li> </ul>
<p><b>Day 4: Python Operators</b></p> <ul style="list-style-type: none"> <li>✓ Arithmetic, Assignment Ops</li> <li>✓ Comparison Operators</li> <li>✓ Logical, Identity Operators</li> <li>✓ Member, Bitwise Operators</li> <li>✓ Operator Precedence</li> <li>✓ If ... Else Statement, Pass</li> <li>✓ Short Hand If, OR, AND</li> <li>✓ ELIF and ELSE IF Statements</li> <li>✓ Expressions, Ternary OPs</li> </ul>	<p><b>Day 5: Python Loops, Iterations</b></p> <ul style="list-style-type: none"> <li>✓ Python Loop &amp; Realtime Use</li> <li>✓ Python While Loop Statement</li> <li>✓ Break and Continue Statement</li> <li>✓ Using Print with While()</li> <li>✓ Iterations &amp; Conditions</li> <li>✓ Exit Conditions &amp; For Loops</li> <li>✓ Break, Continue &amp; Range</li> <li>✓ __iter__() and __next__()</li> <li>✓ iter() and Looping Options</li> </ul>	<p><b>Day 6: Python Collections</b></p> <ul style="list-style-type: none"> <li>✓ Python Collections (Arrays)</li> <li>✓ list() Constructor, print()</li> <li>✓ Python Tuples, Tuple Items</li> <li>✓ tuple() Constructor, Usage</li> <li>✓ Python Sets : Syntax Rules</li> <li>✓ Duplicates, Types, Ordered</li> <li>✓ Python Dictionaries: Usage</li> <li>✓ Changeable, Ordered Data</li> <li>✓ Dictionary Construct, type()</li> </ul>
<p><b>Day 7: Python Functions</b></p> <ul style="list-style-type: none"> <li>✓ Python Functions &amp; Usage</li> <li>✓ Function Parameters</li> <li>✓ Arguments, **kwargs</li> <li>✓ Default &amp; List Parameters</li> <li>✓ Python Lambda Functions</li> <li>✓ Anonymous Functions</li> <li>✓ Recursive Functions, Usage</li> <li>✓ Return &amp; Print @ Lambda</li> </ul>	<p><b>Day 8: Python Classes &amp; Arrays</b></p> <ul style="list-style-type: none"> <li>✓ Python Classes &amp; Objects</li> <li>✓ __init__() Function</li> <li>✓ __str__() Function</li> <li>✓ Self Parameters &amp; Objects</li> <li>✓ Python Inheritance &amp; Classes</li> <li>✓ Parent &amp; Child Classes</li> <li>✓ __init__() &amp; super() Function</li> <li>✓ Polymorphism in Python</li> </ul>	<p><b>Day 9: Python Modules</b></p> <ul style="list-style-type: none"> <li>✓ import Python Modules</li> <li>✓ Variables in Modules</li> <li>✓ Built In Modules &amp; dir</li> <li>✓ datetime module in Python</li> <li>✓ Date Objections Creation</li> <li>✓ strftime Method &amp; Usage</li> <li>✓ imports &amp; datetime.now()</li> <li>✓ Using Python Constructors</li> </ul>
<p><b>Day 10: Python JSON &amp; RegEx</b></p> <ul style="list-style-type: none"> <li>✓ JSON Concepts, Usage</li> <li>✓ Dictionary &amp; import json</li> <li>✓ Python Objects into JSON</li> <li>✓ Formatting &amp; Ordering</li> <li>✓ json.dumps, print options</li> <li>✓ Python Regular Expressions</li> <li>✓ RegEx Module &amp; Functions</li> <li>✓ search() &amp; span() , Strings</li> <li>✓ Using RegEx with JSON</li> </ul>	<p><b>Day 11: Python User Inputs &amp; TRY</b></p> <ul style="list-style-type: none"> <li>✓ Try Except, Exception Handling</li> <li>✓ NameError Resolution</li> <li>✓ Python Finally Block, Usage</li> <li>✓ Raise an exception method</li> <li>✓ TypeError, Scripting in Python</li> <li>✓ Python User Inputs</li> <li>✓ Python Index Numbers</li> <li>✓ Named Indexes, Usage</li> <li>✓ input() &amp; raw_input()</li> </ul>	<p><b>Day 12: Python File Handling</b></p> <ul style="list-style-type: none"> <li>✓ File Handling, Activities</li> <li>✓ r, a, w, x modes</li> <li>✓ t, b Operations</li> <li>✓ Read Only Parts</li> <li>✓ Loop, Write, Close Files</li> <li>✓ Appending, Overwriting</li> <li>✓ import os, path.exists</li> <li>✓ f.open, f.write</li> <li>✓ f.read, f.close</li> </ul>



<b>Day 13: Data Analytics - Pandas</b> <ul style="list-style-type: none"> <li>✓ Python Modules &amp; Pandas</li> <li>✓ Pandas Codebase &amp; Usage</li> <li>✓ Installation of Pandas</li> <li>✓ import pandas.DataFrame</li> <li>✓ Checking Pandas Version</li> <li>✓ Pandas Series, arrays</li> <li>✓ Labels : Creation, Use</li> <li>✓ series(), print()</li> </ul>	<b>Day 14: Data Analytics - DataFrames</b> <ul style="list-style-type: none"> <li>✓ Indexes &amp; Named Options</li> <li>✓ Locate Row and Load Rows</li> <li>✓ Row Index &amp; Index Lists</li> <li>✓ Load Files Into a DataFrame</li> <li>✓ pd.read_csv() Function</li> <li>✓ pd.options.display.max_rows</li> <li>✓ df.to_string() Function</li> <li>✓ tail() &amp; null() Function</li> </ul>	<b>Day 15: Data Analytics - Pandas</b> <ul style="list-style-type: none"> <li>✓ Pandas - Cleaning Data</li> <li>✓ Replace, Transform Columns</li> <li>✓ Data Discovery &amp; Column Fill</li> <li>✓ Identify &amp; Remove Duplicates</li> <li>✓ dropna(), fillna() Functions</li> <li>✓ Pandas - Data Correlations</li> <li>✓ Good &amp; Bad Correlation</li> <li>✓ Data Plotting &amp; matplotlib Lib</li> </ul>
<b>Day 16: SQL Server &amp; Python - 1</b> <ul style="list-style-type: none"> <li>✓ SQL Server DB Engine</li> <li>✓ Azure Data Studio Tool</li> <li>✓ sp_execute_external_script</li> <li>✓ Input Data &amp; Result Sets</li> <li>✓ DDL &amp; DML with Python</li> <li>✓ SQL_out, SQL_in</li> <li>✓ Variables &amp; Parameters</li> <li>✓ Versions, Package List</li> <li>✓ WITH RESULT SETS Options</li> </ul>	<b>Day 17: SQL Server &amp; Python - 2</b> <ul style="list-style-type: none"> <li>✓ pandas.Series with SQL Server</li> <li>✓ Indexing Methods in Realtime</li> <li>✓ Convert series to data frame</li> <li>✓ Output values into data.frame</li> <li>✓ pymssql package in SQL Server</li> <li>✓ pip list &amp; Package Manager</li> <li>✓ Python runtime, Py Package</li> <li>✓ pymssql.connect &amp; Usage</li> <li>✓ Cursor Variables &amp; Usage</li> </ul>	<b>Day 18: Power BI with Python</b> <ul style="list-style-type: none"> <li>✓ Using Python Script Visual</li> <li>✓ PyScript Options &amp; Tuning</li> <li>✓ Settings, Labelling Options</li> <li>✓ Running and Testing Scripts</li> <li>✓ Data Validations in Power BI</li> <li>✓ Power BI: ipynb Scripts</li> <li>✓ Interactive Reports</li> <li>✓ Data Formatting with Python</li> <li>✓ End to End Realtime Projects</li> </ul>

## Module 4: Tableau

<b>Ch 1: Tableau Intro, Installation</b> <ul style="list-style-type: none"> <li>✓ Introduction to Reports, Tableau</li> <li>✓ Report Types, Data Sources</li> <li>✓ Basic Understanding, Workflow</li> <li>✓ Tableau as a Self Service BI Tool</li> <li>✓ Tableau Features, Advantages</li> <li>✓ Tableau Public Desktop</li> <li>✓ Tableau Prep Tools - Modelling</li> <li>✓ Tableau Training Course Plan, Lab</li> <li>✓ Study Material, Certifications</li> </ul>	<b>Ch 2: Basic Report Design</b> <ul style="list-style-type: none"> <li>✓ Tableau Public Desktop</li> <li>✓ Worksheet Creation, Options</li> <li>✓ Row Shelf &amp; Column Shelf</li> <li>✓ Text, Detail, Tooltip, Colours</li> <li>✓ VizQL , Dimension, Measures</li> <li>✓ Marks, Shelves, Axis</li> <li>✓ Grouping on Static Data</li> <li>✓ Dynamic Data Grouping</li> <li>✓ Hierarchies: Real-time Use</li> </ul>	<b>Ch 3: Architecture, Joins</b> <ul style="list-style-type: none"> <li>✓ Drilldown Reports</li> <li>✓ Data Sources, Connectors</li> <li>✓ Tableau Server Components</li> <li>✓ VizQL Server, Data Engine</li> <li>✓ Fast Data Engine, Gateway</li> <li>✓ Alias, Bins, Bookmarks</li> <li>✓ Dashboards, Data Pane</li> <li>✓ Data Source and Dimensions</li> <li>✓ Using Joins in Tableau</li> </ul>
<b>Ch 4 : Big Data Access, Blending</b> <ul style="list-style-type: none"> <li>✓ Azure SQL Database Access</li> <li>✓ Remote Data Sources and Joins</li> <li>✓ Using SQL Queries in Tableau</li> </ul>	<b>Ch 5 : String, Date Functions</b> <ul style="list-style-type: none"> <li>✓ ASCII, CHAR, LEN, ENDSWITH</li> <li>✓ FIND, FINDNTH, LEFT, CONTAINS</li> <li>✓ LOWER, UPPER, LTRIM, RTRIM</li> </ul>	<b>Ch 6 : Table, LOD Calculations</b> <ul style="list-style-type: none"> <li>✓ Custom Calculations, Appends</li> <li>✓ Custom Date, Time Formatting</li> <li>✓ Calculations Reuse and Edits</li> </ul>

<ul style="list-style-type: none"> <li>✓ Use Azure SQL Warehouse</li> <li>✓ Data Blending in Tableau</li> <li>✓ Reports with Multiple Sources</li> <li>✓ Data Combination, Aggregation</li> <li>✓ Show Data &amp; Data Grouping</li> <li>✓ Tableau Operators and Functions</li> <li>✓ Tableau Calculations and Formats</li> <li>✓ Calculations From Shelves</li> </ul>	<ul style="list-style-type: none"> <li>✓ MID, MIN, REPLACE, RIGHT</li> <li>✓ SPACE, SPLIT, UPPER, MAX</li> <li>✓ STARTSWITH, AND, CASE</li> <li>✓ ELSE, ELSEIF, END, IF, IIF</li> <li>✓ IFNULL, ISDATE, ISNULL, MAX</li> <li>✓ MIN, NOT, OR, THEN, WHEN</li> <li>✓ DATEPART, DATETRUNC, DAY</li> <li>✓ ISDATE, MAKEDATE, MONTH</li> <li>✓ NOW, QUARTER, TODAY, YEAR</li> </ul>	<ul style="list-style-type: none"> <li>✓ Date and Time Conversions</li> <li>✓ Two Digit Conversions</li> <li>✓ Table Functions with Tableau</li> <li>✓ Running Total, Row Number</li> <li>✓ Case, FIRST, LOOKUP</li> <li>✓ Calculations, Level of Details</li> <li>✓ Partitioning, LOD</li> <li>✓ FIXED, INCLUDE, EXCLUDE</li> </ul>
<p><b>Ch 7 : Tableau Viz - Level 1</b></p> <ul style="list-style-type: none"> <li>✓ Tableau Visualizations - Types</li> <li>✓ Tableau Bar Charts and Types</li> <li>✓ Horizontal, Coloured Bar Charts</li> <li>✓ Stacked Bar Charts, Measures</li> <li>✓ Side By Side Bar Charts and Use</li> <li>✓ Interactive Bar Charts &amp; Filters</li> <li>✓ Continuous &amp; Discrete Charts</li> <li>✓ Dual, Area, Stacked, Combined</li> </ul>	<p><b>Ch 8 : Tableau Viz - Level 3</b></p> <ul style="list-style-type: none"> <li>✓ Pie, Stacked Pie Charts</li> <li>✓ Side By Side Pie Charts</li> <li>✓ Reverse and Row Count</li> <li>✓ Donut Charts and Angle</li> <li>✓ CrossTab Charts, Drill Downs</li> <li>✓ Conditional Formatting</li> <li>✓ Quick Calculations, Wishker</li> <li>✓ Heat Maps in Real-time</li> </ul>	<p><b>Ch 9 : Tableau Viz – Level 3</b></p> <ul style="list-style-type: none"> <li>✓ Treemaps, Nested Rectangles</li> <li>✓ Marks Type, and Label</li> <li>✓ Treemaps with Bars &amp; Tables</li> <li>✓ Circle View Visualization</li> <li>✓ Scatter Plot, Packed Bubbles</li> <li>✓ Symbol Maps, Filled Maps</li> <li>✓ Histograms, Motion Charts</li> <li>✓ Bullet Graphs, Dimensions</li> </ul>
<p><b>Ch 10 : Tableau Filters</b></p> <ul style="list-style-type: none"> <li>✓ Tableau Filters - Types &amp; Usage</li> <li>✓ Extract Filters, TDE (hyper)</li> <li>✓ Data Source Filters (twb Files)</li> <li>✓ Extract History, TDE Files</li> <li>✓ Context Filters and Performance</li> <li>✓ Measure Filters and Aggregations</li> <li>✓ Filters Scope and Quick Filters</li> </ul>	<p><b>Ch 11: Parameters &amp; Sets</b></p> <ul style="list-style-type: none"> <li>✓ Tableau Parameters</li> <li>✓ Link Parameters, Calculations</li> <li>✓ Calculations in Fields/View</li> <li>✓ Dynamic Filters &amp; Dimension</li> <li>✓ Dynamic Measure, Parameters</li> <li>✓ Sets : IN and OUT, Filters</li> <li>✓ Sets &amp; Groups &amp; Hierarchies</li> </ul>	<p><b>Ch 12 : Forecasts, Actions</b></p> <ul style="list-style-type: none"> <li>✓ Trend Lines, Reference Lines</li> <li>✓ Forecasts, Smoothing</li> <li>✓ Adding / Editing Bookmarks</li> <li>✓ Data Analytics in Tableau</li> <li>✓ Tableau Actions and Types</li> <li>✓ Filter Actions: Static/Dynamic</li> <li>✓ Highlights, Dynamic Types</li> </ul>
<p><b>Ch 13 : Dashboards &amp; Stories</b></p> <ul style="list-style-type: none"> <li>✓ Dashboards and Stories</li> <li>✓ Building Dashboards</li> <li>✓ Dashboard Size, Views, Objects</li> <li>✓ Legends and Quick Filters</li> <li>✓ Tiles, Layouts, Containers</li> <li>✓ Dashboard Extensions, APIs</li> <li>✓ Story Points, Bollinger Bands</li> <li>✓ Data Cleansing – Tableau Prep</li> </ul>	<p><b>Ch 14 : Tableau Server</b></p> <ul style="list-style-type: none"> <li>✓ Tableau Server - Architecture</li> <li>✓ Tableau Server - Installation</li> <li>✓ Publish Workbook, Shares</li> <li>✓ Device &amp; Custom Layouts</li> <li>✓ Java Script API in Server</li> <li>✓ Tableau Online Vs Server</li> <li>✓ Security Advantages</li> <li>✓ Adding Custom Layouts</li> </ul>	<p><b>Ch 15: Tableau Online</b></p> <ul style="list-style-type: none"> <li>✓ Tableau Online: LIVE Reports</li> <li>✓ Projects and Workbooks</li> <li>✓ Tableau Report Views</li> <li>✓ Custom Views, Comments</li> <li>✓ Downloads, Exports</li> <li>✓ Share, Subscribe, favourites</li> <li>✓ Web Authoring, Publish Online</li> <li>✓ Alerts, Snapshots, Phone Marks</li> </ul>
<p><b>Ch 16 : Collaborate Tableau</b></p> <ul style="list-style-type: none"> <li>✓ Collaborate Tableau Server</li> <li>✓ Account Settings, Drill Down</li> <li>✓ Custom Views, Comments</li> <li>✓ Downloads and Exports</li> <li>✓ Sharing, Subscription</li> <li>✓ Web Authoring, Edits</li> </ul>	<p><b>Ch 17 : Manage Tableau</b></p> <ul style="list-style-type: none"> <li>✓ Administration Concepts</li> <li>✓ Tableau Sites, Users, Groups</li> <li>✓ Permissions &amp; Locking</li> <li>✓ Data Security &amp; Filters</li> <li>✓ Access Roles, Extraction</li> <li>✓ Tableau Services Manager</li> </ul>	<p><b>Ch 18th: Realtime Project</b></p> <p><b>Phase 1:</b> Tableau Report Design; Visualizations; Analytics, Formatting;</p> <p><b>Phase 2:</b></p>

<ul style="list-style-type: none"> <li>✓ Data Driven Alerts</li> <li>✓ Stacked Bars, Alerting Views</li> <li>✓ Navigations, Snapshots</li> <li>✓ Interacting with Content</li> </ul>	<ul style="list-style-type: none"> <li>✓ Browser, Maintenance, CLI</li> <li>✓ TSM Backups and Restores</li> <li>✓ TSM Upgrades For Tableau</li> <li>✓ Tabcmd &amp; Realtime Use</li> </ul>	<p>Data Modelling, Tableau Prep; Dynamic Connections, Azure DB; Parameters and VizQL Scripts <b>Phase 3:</b> Cloud and Server; Project FAQs and Solutions</p>
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## Module 5: Advanced Ecel

<p><b>Ch 1: Basic Functions</b></p> <ul style="list-style-type: none"> <li>✓ SUM, AVERAGE, MAX, MIN, COUNT, COUNTA</li> <li>✓ Absolute, Mixed</li> <li>✓ Relative Referencing</li> </ul>	<p><b>Ch 2: Formatting and Proofing</b></p> <ul style="list-style-type: none"> <li>✓ Currency Format</li> <li>✓ Format Painter</li> <li>✓ Formatting Dates</li> <li>✓ Custom and Special Formats</li> <li>✓ Formatting Cells</li> </ul>	<p><b>Ch 3: Functions</b></p> <ul style="list-style-type: none"> <li>✓ SUMIF, SUMIFS, COUNTIF</li> <li>✓ COUNTIFS, AVERAGEIF</li> <li>✓ AVERAGEIFS, NESTED IF</li> <li>✓ IFERROR STATEMENT</li> <li>✓ AND, OR, NOT</li> </ul>
<p><b>Ch 4: Protecting Excel</b></p> <ul style="list-style-type: none"> <li>✓ File Level Protection</li> <li>✓ Workbook</li> <li>✓ Worksheet Protection</li> <li>✓ Security Concepts</li> <li>✓ Realtime Issues, Solutions</li> </ul>	<p><b>Ch 5: Text Functions</b></p> <ul style="list-style-type: none"> <li>✓ Upper, Lower, Proper</li> <li>✓ Left, Mid, Right</li> <li>✓ Trim, Len, Exact</li> <li>✓ Concatenate</li> <li>✓ Find, Substitute</li> </ul>	<p><b>Ch 6: Date &amp; Time Functions</b></p> <ul style="list-style-type: none"> <li>✓ Today, Now</li> <li>✓ Day, Month, Year</li> <li>✓ Date, Date if, Date Add</li> <li>✓ EOMONTH</li> <li>✓ Weekday Functions</li> </ul>
<p><b>Ch 6: Adv. Techniques</b></p> <ul style="list-style-type: none"> <li>✓ Paste Formulas</li> <li>✓ Paste Formats</li> <li>✓ Paste Validations</li> <li>✓ Transpose Tables</li> </ul>	<p><b>Ch 7: New in Excel &amp; 365</b></p> <ul style="list-style-type: none"> <li>✓ Charts – Tree map &amp; Waterfall</li> <li>✓ Sunburst, Box and whisker Charts</li> <li>✓ Combo Charts – Secondary Axis</li> <li>✓ Adding Slicers Tool in Pivot &amp; Tables</li> <li>✓ Using Power Map and Power View</li> <li>✓ Forecast Sheet, park lines</li> </ul>	<p><b>Ch 7: New in Excel &amp; 365</b></p> <ul style="list-style-type: none"> <li>✓ Using 3-D Map</li> <li>✓ New Controls in Pivot Table</li> <li>✓ Various Time Lines</li> <li>✓ Auto complete a data range</li> <li>✓ Quick Analysis Tool</li> <li>✓ Smart Lookup manage Store</li> </ul>
<p><b>Ch 10: Printing Workbooks</b></p> <ul style="list-style-type: none"> <li>✓ Setting Up Print Area</li> <li>✓ Customizing Headers</li> <li>✓ Templates</li> <li>✓ Print Titles –Repeat Rows</li> </ul>	<p><b>Ch 11: Sorting and Filtering</b></p> <ul style="list-style-type: none"> <li>✓ Filtering on Text</li> <li>✓ Numbers &amp; Colours</li> <li>✓ Sorting Options</li> <li>✓ Advanced Filters</li> <li>✓ Filter Criteria</li> </ul>	



<p><b>Ch 12: What If Analysis</b></p> <ul style="list-style-type: none"> <li>✓ Goal Seek</li> <li>✓ Scenario Analysis</li> <li>✓ Data Tables (PMT Function)</li> <li>✓ Solver Tool</li> </ul>	<p><b>Ch 13: Logical Functions</b></p> <ul style="list-style-type: none"> <li>✓ If Function</li> <li>✓ How to Fix Errors – if error</li> <li>✓ Nested If</li> <li>✓ Complex if and or functions</li> </ul>	<p><b>Ch 14: Data Validation</b></p> <ul style="list-style-type: none"> <li>✓ Number, Date &amp; Time</li> <li>✓ Text and List Validation</li> <li>✓ Custom validations formulas</li> <li>✓ Dynamic Dropdowns</li> </ul>
<p><b>Ch 15: Lookup Functions</b></p> <ul style="list-style-type: none"> <li>✓ V lookup / H Lookup</li> <li>✓ Index and Match</li> <li>✓ Smooth User Interface</li> <li>✓ Nested V Lookup</li> <li>✓ Reverse Lookup</li> <li>✓ Worksheet linking</li> <li>✓ V lookup with Helper Column</li> </ul>	<p><b>Ch 16: Pivot Tables - 1</b></p> <ul style="list-style-type: none"> <li>✓ Creating Simple Pivot Tables</li> <li>✓ Classic Pivot table</li> <li>✓ Choosing Field</li> <li>✓ Filtering PivotTables</li> <li>✓ Modifying PivotTable Data</li> <li>✓ Grouping</li> <li>✓ Calculated Fields</li> </ul>	<p><b>Ch 17: Pivot Tables - 2</b></p> <ul style="list-style-type: none"> <li>✓ Array with IF, LEN</li> <li>✓ MID function formulas.</li> <li>✓ Array with Lookup functions.</li> <li>✓ Various Charts</li> <li>✓ SLICERS, Filter data</li> <li>✓ Manage Primary Axis</li> <li>✓ Manage Secondary Axis</li> </ul>
<p><b>Ch 18: Excel Dashboard</b></p> <ul style="list-style-type: none"> <li>✓ Planning a Dashboard</li> <li>✓ Adding Tables and Charts to Dashboard</li> <li>✓ Adding Dynamic Contents to Dashboard</li> </ul>	<p><b>Ch 19: VBA Macro - 1</b></p> <ul style="list-style-type: none"> <li>✓ Using Outlook Namespace</li> <li>✓ Send automated mail</li> <li>✓ Outlook Configurations, MAPI</li> <li>✓ Worksheet Operations</li> <li>✓ Workbook Operations</li> </ul>	<p><b>Ch 20: VBA Macro - 2</b></p> <ul style="list-style-type: none"> <li>✓ Merge Worksheets using Macro</li> <li>✓ Merge multiple excel files into one sheet</li> <li>✓ Split worksheets using VBA</li> <li>✓ Worksheet copiers</li> </ul>
<p><b>Agile &amp; Realtime Integrations with Project Work, Resume Guidance</b></p>		

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## Trending Job Roles

- Data Analyst
- Data Scientist
- Data Engineer
- Solution Architect
- Consultant, more .. !



## Training Highlights

- ✔ Step by Step
- ✔ LIVE Project(s)
- ✔ Job Assistance
- ✔ Resume Guidance
- ✔ Concept wise FAQs



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