

# SQL School <sup>TM</sup>

Quality Training Assured

## SSAS Training Plans

	PLAN A	PLAN B	PLAN C
<b>Course Includes</b>	1. SSAS	1. SSAS [MDX, DAX] 2. Power BI	1. T-SQL Queries 2. SSAS [MDX, DAX] 3. Power BI
SSAS: OLAP Cube Design	✓	✓	✓
SSAS: Multidimensional Cube Design	✓	✓	✓
SSAS: Tabular Mode Cube Design	✓	✓	✓
SSAS: MDX Queries & Expressions	✓	✓	✓
SSAS: DAX Queries & Expressions	✓	✓	✓
SSAS: Data Modelling with MDX	✓	✓	✓
SSAS: Data Modelling with DAX	✓	✓	✓
Power BI: Report Design, Visuals	X	✓	✓
Power BI: Desktop, Custom Visuals	X	✓	✓
Power BI: Power Query & Modelling	X	✓	✓
Power BI: Data Modelling with DAX	X	✓	✓
Power BI: Cloud, Excel Analysis	X	✓	✓
Power BI: Mobile, R, REST API	X	✓	✓
Power BI: SSAS Integration	X	✓	✓
SQL: Basic SQL, SQL Server Queries	X	X	✓
TSQL: SQL Server T-SQL Concepts	X	X	✓
TSQL: Joins, Queries, Group By	X	X	✓
TSQL: Normal Forms and RAID	X	X	✓
TSQL: Excel Integration, SP Basics	X	X	✓
<b>Total Course Duration</b>	<b>2 Weeks</b>	<b>6 Weeks</b>	<b>8.5 Weeks</b>

## Module 1: Basics, SQL Server & T-SQL Concepts (For SSAS Plan C)

### Chapter 1: SQL SERVER INTRODUCTION

Data, Databases and RDBMS Software; Database Types : OLTP, DWH, OLAP; Microsoft SQL Server Advantages, Use; Versions and Editions of SQL Server; SQL : Purpose, Real-time Usage Options; SQL Versus Microsoft T-SQL [MSSQL]; Microsoft SQL Server - Career Options; Database Engine Component and OLTP; BI Components, Data Science Components; ETL, MSBI and Power BI Components; Course Plan, Resume, Project; 24 x 7 Lab; Software Installation Pre-Requisites;

### Chapter 2: SQL SERVER INSTALLATIONS

System Configuration Checker Tool; Versions and Editions of SQL Server; SQL Server Pre-requisites : S/W, H/W; SQL Server 2016 / 2017 Installation; SQL Server 2019 Installation; Instance Name; Instances : Types; Default Instance, Named Instances; Port Numbers; Service and Service Account; Authentication Modes and Logins; FileStream, Collation Properties;

### Chapter 3: SSMS Tool, SQL BASICS - 1

SQL Server Management Studio; Local and Remote Connections; System Databases: Master and Model; MSDB, TempDB, Resource Databases; Creating Databases : Files [MDF, LDF]; Creating Tables in GUI; Data Insertion & Storage; SQL : Real-time Usage; DDL, DML, SELECT, DCL and TCL Statements; Data Storage, Inserts - Basic Level; SELECT; Table Data Retrieval;

### Chapter 4: SQL BASICS - 2

Creating Databases & Tables in SSMS; Single Row Inserts, Multi Row Inserts; Rules for Data Insertion Statements; SELECT Statement @ Data Retrieval; SELECT with WHERE Conditions; AND and OR; IN and NOT IN; Between, Not Between; LIKE and NOT LIKE; UPDATE Statement; DELETE & TRUNCATE; Logged and Non-Logged Operations; ADD, ALTER and DROP Statements;

### Chapter 5: SQL BASICS - 3, T-SQL Introduction

Schemas : Group Tables in Database; Using Schemas for Table Creation; Using Schemas in Table Relations; Table Migrations across Schemas; Default Schema : "dbo"; Import and Export Wizard; Bulk Operations; Excel File Imports / Exports; SQL Server Native Client; Executing SSIS Packages, Data Loads; Local and Global Temporary Tables; # & ## Prefix; Temporary Vs Permanent Tables;

### Chapter 6: CONSTRAINTS & INDEXES BASICS

Constraints and Keys - Data Integrity; NULL, NOT NULL Property on Tables; UNIQUE KEY Constraint; PRIMARY KEY Constraint; FOREIGN KEY Constraint, References; CHECK Constraint; DEFAULT Constraint; Identity Property : Seed & Increment; Database Diagrams and ER Models; Indexes : Basic Types and Creation; Clustered and Non Clustered Indexes; Primary Key and Unique Key Indexes;

### Chapter 7: JOINS and TSQL Queries : Level 1

JOINS; INNER JOINS For Matching Data; OUTER JOINS For (non) Match Data; Left Outer Joins; Right Outer Joins; FULL Outer Joins; One-way & Two Way Comparisons; "ON" Conditions; NULL, IS NULL; CROSS JOIN and CROSS APPLY; Join Options: Merge, Loop and Hash Joins;

### Chapter 8: GROUP BY, T-SQL Queries : Level 2

GROUP BY Queries and Aggregations; Group By Queries with Having Clause & Where Clause; WHERE and HAVING in T-SQL; Rollup : T-SQL Queries; Cube : Usage and T-SQL Queries; UNION and UNION ALL; EXISTS; Sub Queries; Joins with Group By Queries; Nested Sub Queries; UNION and UNION ALL; Nested Sub Queries with Group By, Joins; Comparing WHERE, HAVING Conditions;

### **Chapter 9: JOINS & T-SQL Queries : Level 3**

GetDate, Year, Month, Chapter Functions; Date & Time Styles, Data Formatting; DateAdd and DateDiff Functions; Cast and, Convert Functions in Queries; String Functions: SubString, Reliccate; Len, Upper, Lower, Left and Right; LTrim, RTrim, CharIndex Functions; MERGE Statement - Comparing Tables; WHEN MATCHED and NOT MATCHED; IIF() Function for Value Compares; CASE Statement : WHEN, ELSE, END; ROW\_NUMBER() and RANK() Queries; Dense Rank and Partition By;

### **Chapter 10: VIEW, PROCEDURE, FUNCTION BASICS**

Views : Types, Usage in Real-time; System Predefined Views and Audits; Listing Databases, Tables, Schemas; Functions : Types, Usage in Real-time; System Predefined Functions, Audits; DBId, DBName, ObjectID, ObjectName; Variables & Parameters; System Predefined Procedures; Parameters; Sp\_help, Sp\_helpdb and sp\_helptext; sp\_pkeys, sp\_rename and sp\_help;

### **Chapter 11: TRIGGERS & TRANSACTIONS**

Triggers Real-world Usage; FOR/AFTER Triggers; INSTEAD OF Triggers; INSERTED, DELETED Memory Tables; DML Automations using Memory Tables; Read Only Tables; Enable Triggers and Disable Triggers; ACID Properties; Auto Commit; EXPLICIT & IMPLICIT; COMMIT and ROLLBACK; Open Transactions; Query Blocking Scenarios @ Real-time; NOLOCK and READPAST Lock Hints;

### **Chapter 12: ER MODELS, NORMAL FORMS**

Normal Forms for Entity Relationships; First, Second, Third Normal Forms Usage; Boycee-Codd Normal Form: BNCF : Usage; 4 NF, EKNF, ETNF. Functional Dependency; Multi-Valued, Transitive Dependencies; Composite Keys and Composite Indexes; 1:1, 1:M, M:1, M:M Relationship Types; SQL Queries Access in Reporting Tools; Office Data Connection Files; Excel Pivot Reports; SQL Queries in BI Tools; FETCH OFFSET, NEXT ROWS; Data Refresh (Manual, Automated);

## **REAL-TIME CASE STUDY – 2 (Sales & Retail), EXCEL INTEGRATION**

## **Module 2: SQL Server Analysis Services (SSAS)**

{For SSAS All Plans}

### **Chapter 1: INTRODUCTION TO SSAS & CONFIGURATION**

Installation and Configuration of SSAS; SSAS Component & Tools - Operational Modes; Multidimensional Mode : Properties & Usage; Tabular Mode : Purpose, Properties and Usage (ROLAP); PowerPivot Mode : Properties and Usage (Overview); Multidimensional Mode Instances, Verification; SSAS Service Accounts & Usage. SQL Browser Service; SSDT Tool: SQL Server Data Tools - SSDT / Visual Studio; Understanding Developer Environment (SSDT) Interface; SSAS Online Training - Lab Plan, Resources & Databases; Need for OLAP Databases and Cubes For Analysis - OLAP; Need for MDX : Multidimensional Expression Language; Need for DAX : Data Analysis Expression Language; Need for XMLA and DMX Environments. SSAS Architecture; SSAS Workflow in Real-world. Data Source Configurations & DB Installations for Lab;

### **Chapter 2: BASIC CUBE DESIGN WITH SSAS, EXCEL PIVOT**

Basic Cube Design with SSDT (SQL Server Data Tools); SSAS OLAP Entities : Data Source, Data Source View; Cube Design Concepts : Measure Groups, Measures; Identifying Dimensions, Attributes and Members; Basic Cube Design : DS, DSV, Cube Wizard, Dimensions; Adding Attributes. SSAS Deployment and Cube Access; PROCESS of OLAP Cube. Options and Online Deployment; Cube Browsing (Basic Level) using SSMS & SSDT Tools; Excel Connections for SSAS Databases & OLAP Cube Access; Excel PIVOT Tables and Basic Chart

Report Design in SSAS; Piechart Reports and Attribute Filters. Usage Statistics; Common Deployment Errors : Logon Failures @ OLAP Server; OLAP Server Impersonation Account - NT AUTHORITY Account; OLAP Deployment Warnings and Solutions. Precautions; End to End Implementation of SSAS - Basic Example;

### **Chapter 3: HIERARCHIES, MDX - LEVEL 1**

Working with Data Source Views (DSV) : Named Calculations; Named Queries & Dimension Attributes. Explore Data in DSV; Basic Dimension Types : Database Dimension @ Entity Level; Cube Dimension Based on Entity Relations in DSV; Creating Hierarchies in Multidimensional Cube : Purpose; Grouping Attributes within Database Dimensions; Testing Hierarchies in Cube Browser : SSMS, SSDT Tools; MDX: Multidimensional Expression Language. Syntax Rules; MDX Queries Syntax and MDX Expressions Syntax; MDX Syntax and Axis Models. Cube Data into Rows, Columns; Practical Advantages of MDX: Reports, Cube Writebacks; MDX Queries with Dimension Attributes, Members. Axis; MDX Queries on Hierarchies, Levels and Attribute Keys; MEMBERS, CHILDREN, ALL MEMBERS - Cube Aggregates; SELECT in MDX with CROSSJOIN Examples;

### **Chapter 4: CALCULATIONS, MDX - LEVEL 2**

MDX Queries with WHERE, EXCEPT, RANGE, Operators; NONEMPTY, Multiple Member Values. Limitations @ WHERE; PARENT and CHILDREN with MDX Hierarchies. Tuple Inverse; MDX ORDER, TOPCOUNT / HEAD, BOTTOMCOUNT/ TAIL; FILTERS in MDX - CURRENT MEMBER, EMPTY MEMBER; FILTER Expressions with AND / OR and LEFT / RIGHT Range; MDX Query Batches - GO Statement and Query Separator; ADOMD Client : MDX Query Processing and Real-time Use; MDX Calculations - Creation and Scope of Usage; Calculations with MDX Expressions: Measure Level; Calculations with MDX Expressions: Attribute Level; Time Based Calculations with MDX Scripts in Cube; TIME DIMENSIONS - Purpose and Advantages, Properties; Time Keys and Time Attributes - Calendar / Fiscal / ISO; BI Enhancements (Cube) : Advantage; Identifying Attributes, Hierarchies For Time Enhancements; Testing Time Intelligence : YoY, YTD, QTD, MTD, etc..

### **Chapter 5: PARTITIONS, AGGREGATIONS, PERSPECTIVES**

Partitions : Purpose and Architecture, Tuning Operations; Cube Partitions : Storage, Slice Options. Query Conditions; Query Binding and Table Binding Options in Partition Design; Aggregations - Purpose and Usage. Predefined Calculations; Aggregation Types: Full, Default, None and Unrestricted; Measure Properties and Default Aggregation Types in OLAP; Linking Aggregations and Partitions. Cube Slicing Options; Additive and Semi-Additive Measures - Aggregation Options; Storage Modes : Multidimensional, Relational and Hybrid; Aggregation Storage & Measure Group Storage: MOLAP/ROLAP; MOLAP - Automatic Processing, Scheduled, Medium Latency; Low Latency Processing and Custom Scheduling Options; Proactive Caching Options and Silence / Override Interval; Cache Rebuild & Overwrite Options. Processing with Partitions; Perspectives - Purpose and Scenarios For Invalid Cube Access; Dimension Usage Tab for Dimension Relations. End User Access; Translations : Creation and Real-time Use. Language Settings

### **Chapter 6: KPIS, OLAP CUBE DEPLOYMENTS**

Key Performance Indicators (KPI) - Purpose, Design Options; MDX Calculations for GOAL, VALUE, STATUS & TREND; Variance and Value Computations. Format Options, Scope; KPI Organizer, Calculations. MDX Expressions, Time Analysis; FORMAT\_STRING, MDX Expressions and Member Operators; MEMBER Names and SOLVE\_ORDER Expressions in MDX; Parent KPIS with Member Hierarchies, KPI Browser Options; KPIS for Drill-Up, Drill-Down in MS Excel. Pivot Tables; SSAS Deployment Wizard : BUILD and Configuration Files; Deployment Options, Settings, Targets: Transaction Settings; SSAS Deployment Wizard Usage: Impersonation Settings; SSAS Deployment Accounts and Passwords. Security Inherit; OLAP Cube Security Roles and Partition Settings (MOLAP); Key Error Logs, Custom Storage and Error Locations; Scripting Deployment Procedure. Executing of XMLA Scripts; OLAP Database Processing Options - Full, Default, None

### **Chapter 7: TABULAR MODE INSTALLATION, CUBE DESIGN**

SSAS Tabular Mode : Purpose, Scope of Real-time Usage; SSAS Tabular Mode Server Installation, Mode Verification; Tabular Mode Server and Database Architecture; Tabular Mode Advantages with Data Sources, Cube Design; Tabular Mode Design : SSDT, Power Query, DAX; Purpose of Power Query and DAX for OLAP Cube Design; In-Memory Vertipaq Storage - Performance Advantages; BISM : Business Intelligence Semantic Model; Tabular Mode Cubes : Developing Data Models (SMDL); Workspace Servers : Integrated and Dedicated Modes; Comparing Workspace Server and Integrated Options; Compatibility Levels; Cube Design with SQL Server Databases : Data Imports; Workflow Operations with Tabular Mode Cube Design; Data Sources, SSDT and Tabular Cube Design; SSAS OLAP Environment and Cube Report Entities

### **Chapter 8: TABULAR MODE CUBE DESIGN, DAX - 1**

Cube Design with SQL Server Databases: Data Imports; Identifying Tables, Dimensions, Attributes and Members; Designing Measure Groups, Aggregated Measures; Grid Formats and Diagram Formats. Process Options; BUILD and DEPLOY Options with Integrated Workspace; Cube Browsing with "Analyze in Excel" Options, Reports; Tabular Mode Cube Design : Creating, Using Hierarchies; DAX UI & Data Types; DAX Usage : DAX Queries & DAX Expressions; DAX Aggregated Measures with DAX, DAX Syntax; Hierarchies in Cube Design : Adding Levels; Relationship Edits : Active, Inactive Relations; Tabular Mode Cube Redesign with Import Templates; Model Options : Process, Calculate; Data Load Verifications, Tabular Mode Explorer;

### **Chapter 9: TABULAR MODE - DAX - 2**

KPIs (Key Performance Indicators) Real-time Use; Partitions in Tabular Mode Cube Design; Using Power Query for Partition Design; Power Query Expressions and Data Filters; Import Data Options and ETL Operations; ; Defining Measures with DAX Expressions; Defining Perspectives for Cube Access; Data Expression Language (DAX) Basics; DAX Usage : Columns and Measures in SSAS; Auto generated Expressions in DAX; Member Representations; DAX Functions, Expressions; Standard Functions, Time Intelligence Functions; DAX FILTER() and CALCULATE() Operations; Time Dimension and YTD(), QTD(), MTD();

### **Chapter 10: OLAP DATABASE MANAGEMENT**

OLAP DB Backups & Restores - Multidimensional, Tabular; Detach and Attach; OLAP Database Processing and XMLA Scripts; Cube Processing Jobs with DB Engine Agent; OLAP Database Scripting with XMLA, Cloning; OLAP Database Security Roles - MDX, DAX; Partition Management - Split and Merge; OLAP Cube Audits, Usage Based Optimization; OLAP Cube Writebacks. Cube Updates with MDX; Tabular Mode Cube Processing Options; Direct Query & In Memory with Direct Query; In-Memory Options with Direct Query in OLAP; Data Mining - Decision Trees, Clustering Alg"; Training, Testing Sets. Lift Charts, DMX Queries; Dimension Types : Fact, Role Playing, Degenerate; Multidimensional - Tabular Mode Comparisons;

### **Chapter 11: SSAS Project Work For Resume, Job Work**

## **Module 3: Power BI (Reports, Cloud, Server)**

{For SSAS Plan B, C}

### **Chapter 1 : POWER BI BASICS**

Power BI Job Roles in Real-time; Power BI Data Analyst Job Roles; Business Analyst - Job Roles; Power BI Developer - Job Roles; Power BI for Data Scientists Comparing MSBI and Power BI; Comparing Tableau and Power BI; MCSA 70-778, MCSA 70-779 Exam; Types of Reports in Real-World; Interactive &



Paginated Reports; Analytical & Mobile Reports; Data Sources Types in Power BI; Licensing Plans; Power BI Training : Lab Plan; Power BI Dev, Prod Environments;

## **Chapter 2 : BASIC REPORT DESIGN**

Power BI Desktop Installation; Data Sources & Visual Types; Canvas, Visualizations and Fields; Get Data and Memory Tables; In-Memory xvelocity Database; Table and Tree Map Visuals; Format Button and Data Labels; Legend, Category and Grid; PBIX and PBIT File Formats; Visual Interaction, Data Points; Disabling Visual Interactions; Edit Interactions - Format Options; SPOTLIGHT & FOCUSMODE; CSV and PDF Exports. Tooltips; Power BI EcoSystem, Architecture;

## **Chapter 3 : VISUAL SYNC, GROUPING**

Slicer Visual : Real-time Usage; Orientation, Selection Properties; Single & Multi Select, CTRL Options; Slicer : Number, Text and Date Data; Slicer List and Slicer Dropdowns; Visual Sync Limitations; Disabling Slicers; Grouping : Real-time Use, Examples; List Grouping and Binning Options; Grouping Static / Fixed Data Values; Grouping Dynamic / Changing Data; Bin Size and Bin Limits (Max, Min); Bin Count and Grouping Options; Grouping Binned Data, Classification;

## **Chapter 4 : HIERARCHIES, FILTERS**

Creating Hierarchies in Power BI; Independent Drill-Down Options; Dependant Drill-Down Options; Conditional Drilldowns, Data Points; Drill Up Buttons and Operations; Expand & Show Next Level Options; Dynamic Data Drills Limitations; Show Data and See Records; Filters : Types and Usage in Real-time; Visual Filter, Page Filter, Report Filter; Basic, Advanced and TOP N Filters; Category and Summary Level Filters; DrillThru Filters, Drill Thru Reports; Keep All Filters" Options in DrillThru; CrossReport Filters, Include, Exclude;

## **Chapter 5 : BOOKMARKS, AZURE, MODELING**

Drill-thru Filters, Page Navigations; Bookmarks : Real-time Usage; Bookmarks for Visual Filters; Bookmarks for Page Navigations; Selection Pane with Bookmarks; Buttons, Images with Actions; Buttons, Actions and Text URLs; Bookmarks View & Selection Pane; OLTP Databases, Big Data Sources; Azure Database Access, Reports; Import & Direct Query with Power BI; Enter Data; Data Modeling : Currency, Relations; Summary, Format, Synonyms; Web & Mobile View in PBI;

## **Chapter 6 : VISUALIZATION PROPERTIES**

Stacked Charts and Clustered Charts; Line Charts, Area Charts, Bar Charts; 100% Stacked Bar and Column Charts; Map Visuals: Tree, Filled, Bubble; Cards, Funnel, Table, Matrix; Scatter Chart : Play Axis, Labels; Series Clusters; Waterfall Chart; ArcGIS Maps; Infographics; Color Saturation, Sentiment Colors; Column Series, Column Axis in Lines; Join Types : Round, Bevel, Miter; Shapes, Markers, Axis, Plot Area; Data Colors; Series, Custom Series and Legends;

## **Chapter 7 : POWER QUERY LEVEL 1**

Power Query Architecture and M Language; Data Types, Literals and Values; Power Query Transformation Types; Table & Column; Text & Number Transformations; Date, Time and Structured Data; List, Record & Table; let, source, in statements @ M Lang; Power Query Functions, Parameters;

Invoke Functions; Get Data, Table Creations, Edit; Merge and Append Transformations; Join Kinds, Advanced Editor, Apply; ETL Operations with Power Query;

### **Chapter 8 : POWER QUERY LEVEL 2**

Query Duplicate, Query Reference; Group By and Advanced Options; Aggregations with Power Query; Transpose, Header Row Promotion; Reverse Rows and Row Count; Data Type Changes & Detection; Replace Columns: Text, NonText; Replace Nulls: Fill Up, Fill Down; PIVOT, UNPIVOT; Move Column and Split Column; Extract, Format; Date & Time Transformations; Deriving Year, Quarter, Month, Chapter; Add Column : Query Expressions; Query Step Inserts and Step Edits;

### **Chapter 9 : POWER QUERY LEVEL 3**

Creating Parameters in Power Query; Parameter Data Types, Default Lists; Static/Dynamic Lists For Parameters; Removing Columns and Duplicates; Convert Tables to List Queries; Linking Parameters to Queries; Parameters and PBI Canvas; Multi-Valued Parameter Lists; Creating Lists in Power Query; Converting Lists to Table Data; Advanced Edits and Parameters; Data Type Conversions, Expressions; Columns From Examples, Indexes; Conditional Columns, Expressions;

### **Chapter 10 : DAX Functions - Level 1**

DAX : Importance in Real-time; Real-world usage of Excel, DAX; DAX Architecture, Entity Sets; DAX Data Types, Syntax Rules; DAX Measures and Calculations; ROW Context and Filter Context; DAX Operators, Special Characters; DAX Functions, Types in Real-time; Vertipaq Engine, DAX Cheat Sheet; Creating, Using Measures with DAX; Creating, Columns with DAX; Quick Measures; SUM, AVERAGEX, KEEPFILTERS; Dynamic Expressions, IF in DAX;

### **Chapter 11 : DAX Functions - Level 2**

Data Modeling Options in DAX; Detecting Relations for DAX; Using Calculated Columns in DAX; Using Aggregated Measures in DAX; Working with Facts & Measures; Modeling : Missing Relations; Modeling : Relation Management; CALCULATE Function Conditions; CALCULATE & ALL Member Scope; RELATED & COUNTRROWS in DAX; Slicing; Dynamic Expressions, RETURN; Date, Time, Text Functions; Logical, Mathematical Functions; Running Total, EARLIER Function;

### **Chapter 12 : DAX FUNCTIONS - Level 3**

1:1, 1:M and M:1 Relations; Connection with CSV, MS Access; AVERAGEX and AVERAGE in DAX; KEEPFILTERS and CALCUALTE; COUNTRROWS, RELATED, DIVIDE; PARALLELPERIOD, DATEDADD; CALCULATE & PREVIOUSMONTH; USERELATIONSHIP, DAX Variables; TOTALYTD , TOTALQTD; DIVIDE, CALCULATE, Conditions; IF..ELSE..THEN Statement; SELECTEDVALUE, FORMAT; SUM, DATEDIFF Examples; TOCHAPTER, DATE, CHAPTER with DAX; Time Intelligence Functions;

### **Chapter 13 : POWER BI CLOUD - 1**

Power BI Service Architecture; Power BI Cloud Components, Use; App Workspaces, Report Publish Related Datasets Cloud; Creating New Reports in Cloud; Report Publish and Report Uploads; Dashboards Creation and Usage; Adding Tiles to Dashboards; Pinning Visuals and Report Pages; Visual Pin Actions in Dashboards; LIVE Interaction in Dashboard; Adding Images, Custom Links; Videos & Embed Links; API Data Sources; Streaming Dataset Tiles (REST API);

## Chapter 14 : POWER BI CLOUD - 2

Dashboards Actions, Report Actions; DataSet Actions: Create Report; Share, Metrics and Exports; Mobile View & Dashboard Themes; Q & A [Cortana], Pin Visuals; Export, Subscribe, Subscribe; Favourite, Insights, Embed Code; Featured Dashboards and Refresh; Gateways Configuration, PBI Service; Gateway Types; Gateway Clusters, Data Refresh : Manual, Automatic; PBIEngw Service; DataFlows, Power Query Expressions; Adding Entities, JSON Files;

## Chapter 15 : EXCEL, ROW LEVEL SECURITY

Import and Upload Options in Excel; Excel Workbooks and Dashboards; Datasets in Excel and Dashboards; Using Excel Analyzer in Power BI; Using Excel Publisher in PBI Cloud; Excel Workbooks, PINS in Power BI; Excel ODC Connections, Power Pivot; Row Level Security (RLS) with DAX; Need for RLS in Power BI Cloud; Data Modelling; DAX Roles Creation and Testing; Power BI Users to Roles; Custom Visualizations; Histogram, Gantt Chart, Info graphics;

## Chapter 16: REPORT SERVER, REPORT BUILDER

Need for Report Server in PROD; Install, Configure Report Server; Report Server DB, Temp Database; Webservice URL, Webportal URL; Creating Hybrid Cloud with Power BI; Using Power BI DesktopRS; Uploading Interactive Reports; Report Builder; Report Builder For Power BI Cloud; Designing Paginated Reports (RDL); Deploy to Power BI Report Server; Data Source Connections, Report; Power BI Report Server to Cloud; Tenant IDs; Mobile Report Publisher;

## Chapter 17 : MSBI INTEGRATIONS WITH POWER BI

Power BI with SQL Server Source; Power BI with SQL Data Warehouse; Power BI with SSAS OLAP Server; Power BI with Azure SQL DB Source; Power BI with Azure SQL Warehouse; Power BI with Azure Analysis Server; Power BI with SSRS (RDL) Reports; Power BI Report Builder Tool; Paginated Reports Design, Use; Data Sources, Datasets, RDL; Report Publish (RDL) to Cloud; Report Verifications; Interactive Vs Paginated Reports; Configuring & Managing Alerts in Cloud;

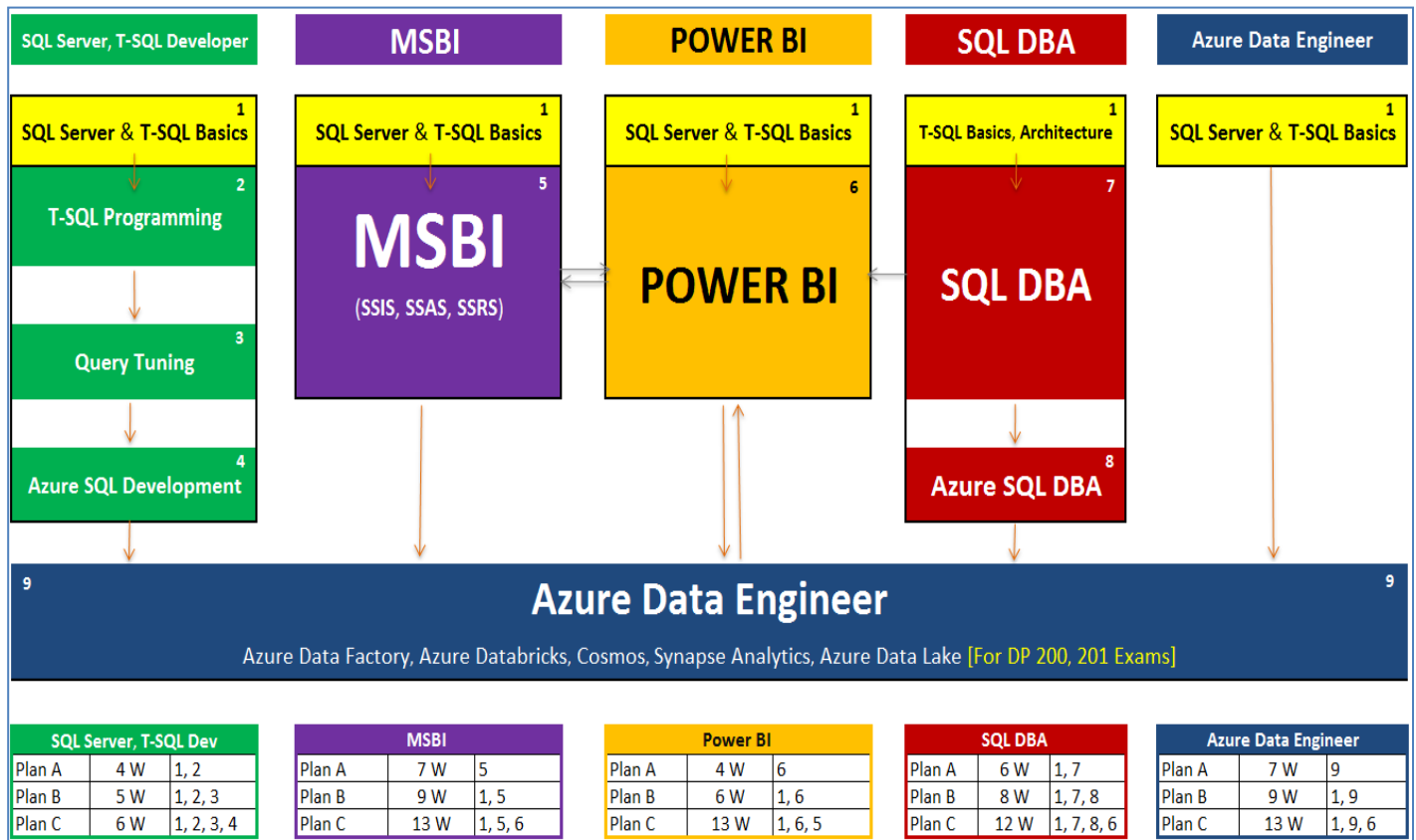
## Chapter 18: Real-time Project [Sales & Customers]

# Resume, Project Oriented FAQs and Solutions

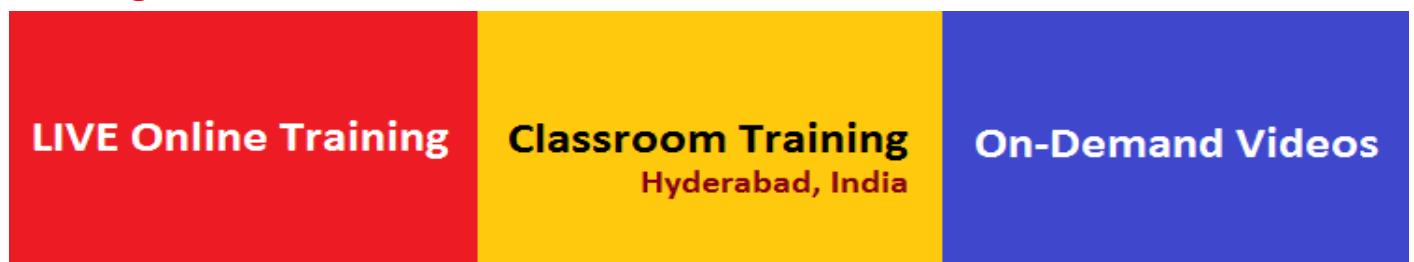
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