

SQL School TM

Quality Training Assured

Complete Practical; Real-time Job Oriented Training

Snowflake Training

| | PLAN A | PLAN B | PLAN C |
|-------------------------------------|-----------|-------------------------|-------------------------------------|
| Training Details | Snowflake | SQL Server Snowflake | SQL Server Snowflake Power BI |
| Snowflake: Cloud & DWH | ✓ | ✓ | ✓ |
| Snowflake: DWH Architecture | ✓ | ✓ | ✓ |
| Snowflake: DWH & ETL Concepts | ✓ | ✓ | ✓ |
| Snowflake: Partitions & Tuning | ✓ | ✓ | ✓ |
| Snowflake: Security & Tuning | ✓ | ✓ | ✓ |
| Snowflake: Backups & HA DR | ✓ | ✓ | ✓ |
| Snowflake: Streams, Stages | ✓ | ✓ | ✓ |
| Snowflake: SnowSQL, Upserts | ✓ | ✓ | ✓ |
| Snowflake: Snow Pipes | ✓ | ✓ | ✓ |
| Snowflake: SnowSQL Concepts | ✓ | ✓ | ✓ |
| Snowflake: Variables & Tasks | ✓ | ✓ | ✓ |
| Snowflake: File Formats, Stages | ✓ | ✓ | ✓ |
| Snowflake: Azure Cloud Integrations | ✓ | ✓ | ✓ |
| TSQL: Database Basics, T-SQL | X | ✓ | ✓ |
| TSQL : Constraints, Joins, Queries | X | ✓ | ✓ |
| TSQL: Views, Group By, Self Joins | X | ✓ | ✓ |
| TSQL: SPs, Udf, Transactions | X | ✓ | ✓ |
| TSQL: SPs, Udf, Transactions | X | ✓ | ✓ |
| Power BI: Big Data Analytics | X | X | ✓ |
| Power BI: Big Data Analytics | X | X | X |
| Power BI: Snowflake DWH | X | X | X |
| Power BI: Cloud Concepts | X | X | X |
| Power BI: Report Server, DWH | X | X | X |
| Total Duration | 4 Weeks | 7 Weeks | 11 Weeks |

Trainer: Mr. Sai Phanindra T [18+ Yrs of Real-time Exp]. Profile @ [linkedin.com/in/saiphanindra](https://www.linkedin.com/in/saiphanindra)

| Training Module | | Duration | Plan A | Plan B | Plan C |
|-----------------------|-------------------------|----------|------------|------------|-------------|
| Module 1 | Snowflake | 4 W | ✓ | ✓ | ✓ |
| Module 2 | SQL & Database Concepts | 3 W | X | ✓ | ✓ |
| Module 3 | Power BI & Analytics | 4 W | X | X | ✓ |
| Total Duration | | | 4 W | 7 W | 11 W |

Module 1: Snowflake

Applicable for All Plans

Ch 1: Introduction to Cloud & Snowflake

Database Introduction & Database Types; OLTP, OLAP and Warehouse Databases; Need for Data Warehouses; Advantages; Popular Database Technologies; Popular Data Warehouse Technologies; Need for Cloud & Remote DWH Store; Cloud Implementation Types & Usage; SaaS: Infrastructure As A Service; PaaS: Platform As A Service; SaaS: Software As A Service; Snowflake Cloud: Introduction; Snowflake: Popular SaaS Platform; Cloud Data Warehouse Concepts; Advantages, Dependencies;

Ch 2: Snowflake Account & Editions

Creating Snowflake Account (Cloud); Snowflake Trial Account: Limitations, Uses; Snowflake Account Components; Cloud Platform: Azure, AWS, Google Cloud; Regions and Availability with Snowflake; Snowflake Editions, Credits; UI Usage; Default Accounts; Web UI & Snow Sight; Snowflake Storage: Ondemand, Capacity; Snowflake Editions and Comparisons; Standard Edition: Features, Advantages; Enterprise Edition: Features, Advantages; Business Critical Edition: Features, Usage; Virtual Private Edition (VPS) & Pricing; Snowflake Pricing: Ondemand Vs Capacity;

Ch 3: Architecture, Warehouse (DWH)

Snowflake Architecture & Compute; Shared Disk, Shared Nothing Architecture; Cluster Nodes and Snowflake Clusters; CPU & Memory Resources in Clusters; Disk Storage and Network Communication; Storage Layer and Cloud Service Layer; Database Query Layer & Data Cycle; Snowflake Data Warehouse Architecture; MPP: Massively Parallel Processing; Compute and Storage Components; Column Store and Virtual Warehouse; Data Warehouse Creation in SnowSight; Classic UI with Snowflake; Navigations; Data Load and Billing; Auto Suspend;

Ch 4: Snowflake Databases & Tables

Snowflake Databases and Data Storage; Need for Snowflake Warehouse, Compute; Database Objects and Hierarchy; Snowflake Worksheet Parameters; Database Creation with Snowflake UI; Retention Time, DB List & Connections; Permanent and Transient Databases; Snowflake Tables and their Usage; Permanent, Transient & Temp Tables; Creating Tables with SnowSight; Describe Options, Data Inserts; CREATE TABLE AS SELECT; Cloning Tables, Case Sensitivity Options; Collation, ALTER, DROP & UNDROP;

Ch 5: Time Travel & Transient Tables

Time Travel Feature in Snowflake; DML Operations and Silent Audits; Continuous Data Protection Life Cycle; Invoking Time Travel Feature in Snowflake; Timestamp, Offset & Query ID Options; Time Travel

using Offset Feature; Time Travel using Query ID Feature; Data Recovery using TIMESTAMP; Using OFFSET options in Real-world; Fail Safe and UNDROP Operations; Transient Tables and Real-time Usage; Permanent Table; Restrictions with Permanent Tables; Identical Names and Naming Conflicts;

Ch 6: Schemas and Session Context

Schemas: Creation, Real-time Usage; Permanent and Transient Schemas; Managed Schemas in Real-time Usage; Verifying and Cloning Snowflake Schemas; Invoking Schemas & Cloning Operations; ALTER SCHEMA.. IF EXISTS Options; Creating, Working with Managed Schema; Snowflake Sessions (Workspaces); Session Context: Role and Warehouse; Session Context: Database & Schema; Working with Fully Qualified Names; CTAS: Create Table As Select; Data Loading with GUI, SQL Scripts; Using Query and History Tab in GUI;

Ch 7: Constraints and Data Types

Snowflake Constraints, Data Validations; NULL and NOT NULL Properties; Unique, Primary and Foreign Keys; Working with Named Constraints; Single Column, Multi Column Constraints; Inline and Out Of Line Constraints; Table Constraints Types, Real-time Use; Constraint Properties: ENFORCED; DEFERRED, IMMEDIATE Options; Numeric, String and Binary Data Types; Boolean Data Types and Usage; Date and Time Data Types; Semi Structured Data Types; Geospatial & Variant Data Types;

Ch 8: Snowflake Cloning (Zero Copy)

Cloning Operations with Snowflake; Zero Copy and Schema Level Cloning; Real-time Uses: Cloning in Snowflake; Snapshot Concept, Metadata Options; Possible Objects for Snowflake Clone; Permissions for Snowflake Cloning; Accessing, Controlling Cloned Objects; Real-time Considerations @ Cloning; Storage Layer and Metadata Layer; Cloning with Foreign Key Constraints; Cloning Snowflake Databases; Cloning Snowflake Schemas, Tables; Security and MANAGE GRANTS; Cloning and COPY GRANTS Options;

Ch 9: Snowflake Procedures & Views

Snowflake Procedures and Functions; Creating and Using Stored Procedures; Using CALL Command in Snowflake; SQL and JavaScript Options with SPs; Snowflake Deferred Name Resolution; Overloading with Snowflake SPs; Transactions & Injection; Variables & CALL Command; Using execute() with Procedures; sqlText:command, createStatement; Cursoring Operations; Dynamic DML Operations with SPs; Loops & next.scan(); RETURN and RETURNS Statements; Views & Query Storage; DML and SELECT Operations on Views; Regular Views; System Predefined Views; Recursive Views; Parameterized Views;

Ch 10: Security Management

Security Management Concepts; Security Entities with Snowflake; Securable Objects, Users & Roles; Privileges and Privilege Groups; Snowflake Security Hierarchy; Organization, Account, Users, Roles ;Schema, Tables, Other DB Objects; Creating and Using Roles, Users; System Defined Roles and Usage; Role Hierarchy and Dependency; Creating and Working with Users; Auditing Users and Password Policy; RBAC: Role Based Access Control; DAC: Discretionary Access Control;

Ch 11: Snowflake Transactions

Working with Transactions (ACID); Atomicity, Consistency, Isolation; Durability and Data Storage Options; Transaction Types with Snowflake; Implicit, Explicit and Auto Commit; BEGIN TRANSACTION & COMMIT; DDL Statements and Transactions; BEGIN WORK Versus START; current_transaction() and Usage; to_timestamp_ltz and Usage; Failed Transactions with SPs; Batches Versus Transactions;

Transactions with Stored Procedures; Scoped and INNER Transactions;

Ch 12: Snowflake Streams & Audits

Working with Snowflake Streams; Stream Object and DML Auditing; Snapshot Creation, Offset Options; METADATA\$ACTION Parameter; METADATA\$ISUPDATE Parameter; METADATA\$ROW_ID Parameter; Stream Types: Standard Stream; Append Only Stream & Usage; Insert Only Stream & Usage; Data Flow with Snowflake Streams; Auditing INSERT, UPDATE, DELETE; show streams; desc streams; Streams on Transient Tables; Time Travel; Using Stream Tables;

Ch 13: Snowflake Tasks, Partitions

Snowflake Tasks and Real-time Use; Snowflake Serverless Compute Model; User Managed & Snowflake Managed; Tasks Tree: Root and Link Concepts; Directed Acyclic Graph (DAG); Tasks Schedules and RESUME Options; CREATE, ALTER, DESCRIBE, SHOW; CREATE TASK ... AFTER Statement; ALTER TASK ... ADD AFTER Statement; CRON Syntax with Tasks, Procedures; Virtual Warehouse Concepts (DWH); Multi Cluster Warehouse Config; Client Utilities, Drivers & Connectors; Auto Scale Options, Billing (Pricing);

Ch 14: SnowSQL and Variables

SnowSQL: Concepts, Client Installation; SnowSQL Tool: Configuration Options; SnowSQL: Account Authorization; DDL, DML and SELECT Operations; Snowflake SQL Query Syntax Format; SnowSQL Command Line Options; Working with DB, Schema and Tables; Snowflake Variables, Batch Processing; Snowflake SQL Data Types, Usage; DECLARE, LET, BEGIN and END; EXECUTE IMMEDIATE, FOR, END FOR; Creating Warehouse, Database, Tables; Granting Permissions, Query Execution; Writing Output to Files (Win, MAC OS);

Ch 15: Snowflake Partitions, Stages

Snowflake Partitions, Real-time use; Service and Storage Layer Concepts; Micro Partition with DML, CDC; Cluster Key: Usage, ReClusters; Depth and Overlap Properties; Internal Partition Types & Usage; List, Range and Hash Partitions; SYSTEM\$CLUSTERING_INFORMATION; Snowflake Stages and Usage; Internal and External Stages; User Stages : Creation, Usage; Table Stages: Creation, Usage; Internal Named Stages, Usage; COPY Command, Bulk Data Loads;

Ch 16: Azure & External Stages

Working with Azure Storage; Azure Subscription, Resources; Create, Use Azure Storage Account; Storage Containers, BLOB Data; Using SnowSQL with Azure BLOB; SAS [Shared Access Signature]; Using SAS Key and FILE PATH; External Stages in Snowflake; File Formats: Creation, Usage; Creating & Using External Stages; Azure Storage with BLOB; COPY INTO Command; Listing Stages; Snowflake Patterns & RegEx;

Ch 17: SnowPipes, Incremental Loads & Unloads

Snowflake SnowPipes: Incremental Loads & SnowPipe; Creating Azure Account For BLOB; Creating Container, Generate SAS Key; Creating Azure Queue and Event Grid; Notification Integration in Snowflake; Integrations: Show, Describe, Use; Azure Active Directory & IAM; Linking Azure AD with Snowflake; Enterprise Application, Authentication; File Formats with Regular Expr; External Data Stages; Data Unloading Concepts; PUT and GET with SnowSQL; Bulk Unloads; Data Preparation & Stages; Data Unloading to User Stages; Data Unloading to Table Stages;

Ch 18: Power BI with Snowflake, Exams

Power BI: Big Data Analytics Tool; SnowSQL Tool: Configuration Options; Installing and Configuring Power BI; Snowflake Data Access with Power BI; Data Warehouse and Database Access; Schema and Table Data Formatting; Snowflake Datasets: Power Query, ETL; **Guidance for Snowflake Certifications;**

Real-time Project

Phase1: Legacy Data Systems; Heterogeneous Data Platforms; File Data Sources;

Phase2: Designing DWH in Snowflake; Incremental Loads; Capacity Planning; External Data, Integrations; Snow Pipes and Azure BLOB;

Phase 3: Data Visualizations, Analytics; End to End Implementations; Project Solution & FAQs; Resume & Certification Guidance;

Module 2: Database Basics, SQL, T-SQL Queries

Applicable for **Snowflake** Plans B & C

Chapter 1: DATABASE INTRODUCTION & BASICS

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 2022, 2019, 2017 Installation; SQL Server Instances; Instance Name & Instance Types; Default Instance, Named Instances; Port Numbers; Services and Authentication; Authentication Modes & SQL 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; Relationships Verification and Links; Indexes : Basic Types and Creation; Index Sort Options, Search Advantages; Clustered and Non Clustered Indexes; Primary Key and Unique Key Indexes;

REAL-TIME CASE STUDY - 1 (SALES & RETAIL)

Chapter 7: JOINS Basics & LINKED SERVERS

JOINS: Real-time usage; Table Data Comparisons; INNER JOINS For Matching Data; OUTER JOINS For (non) Match Data; Left Outer Joins; Right Outer Joins - Example Queries; FULL Outer Joins; One-way & Two Way Comparisons; Join Unrelated Tables; CROSS JOIN and CROSS APPLY; Linked Servers Configurations; Linked Servers: RPC Settings & Tests; Linked Servers, Remote Joins in TSQL; Multi Server Connections, DB Access; 2 Part, 3 Part, 4 Part Name Conventions;

Chapter 8: VIEW, PROCEDURE, FUNCTION BASICS

Views : Syntax & Creation; Testing and Reporting with Views; Views in Real-time; System Predefined Views, Audits; Functions: Syntax & Creation; Functions in Real-time; Procedures: Syntax & Creation; Testing & Using Stored Procedures; Parameters & Dynamic Joins; System Objects, Metadata: sp_help, sp_helpb, sp_helptext, sp_pkeys, sp_rename;

Chapter 9: TRIGGERS & TRANSACTIONS

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

Chapter 10: DB ARCHITECTURE & GROUP BY

Database Architecture: Data Files; Database Architecture: Log Files; Primary and Secondary Data Files; Log Files Creation and Realtime Use; Creating and Using Filegroups; Linking Tables with Filegroups; Scripting Database and Objects; GROUP BY: Importance, Realtime Use; GROUP BY Queries and Aggregations; Group By Queries with Having and Where Clause; WHERE and HAVING in T-SQL; Group By in Data Audits; Group By with Joins, Audits;

Chapter 11: TSQL QUERIES: GROUP BY, JOINS

Joins with Group By Queries in TSQL; Joining 3 Tables with Group By; Joining 4 Tables with Group By; Multi Table Joins with Table Aliases; Table & Column Aliases with Joins; Joins with HAVING Conditions; Joins with WHERE & Aggregations; Joins with Sub Queries, Formatting; Joins with IIF() Function, Conditions; Joins with CASE Statement Conditions; UNION and UNION ALL Operator; Storing Queries in Database Views; Office Data Connections, Excel Reports; Manual Data Refresh & Reports;

Chapter 12: ER MODELS, NORMAL FORMS

First Normal Form and Atomicity; Second Normal Form, Candidate Keys; 3rd Normal Form Multi Value Dependency; Boycee-Codd Normal Form : BNCF; Fourth Normal Form Realtime Advantages; Self Reference Keys and 4 NF Usage; 1:1, 1:M, M:1, M:M Relationship Types; MERGE Statement - Comparing Tables; WHEN MATCHED and NOT MATCHED; Incremental Load with MERGE Statement; UPSERT Operations with MERGE; Stored Procedures for Merge Statement; DML Operations with ON Keyword; Tuning / Optimizing Merge Statement;

REAL-TIME CASE STUDY - 2 (Sales & Retail) with ROW_NUMBER(), RANK()

Module 3: Power BI (Reports, Cloud, Server, Analytics)

Applicable for **Snowflake Plan 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 CALCULATE; COUNTROWS, 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; Pining 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; Favorite, 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 Modeling; 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: AZURE BI INTEGRATIONS WITH POWER BI

Power BI with SQL Server Source; Power BI with Azure SQL Database; Power BI with Azure Data Warehouse (Synapse); Power BI with Azure Data Lake; Power BI with Azure Databricks; Power BI with Azure Cosmos DB; Power BI with Azure BLOB Storage; Azure AD Authentication;

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

Resume, Project Oriented FAQs and Solutions

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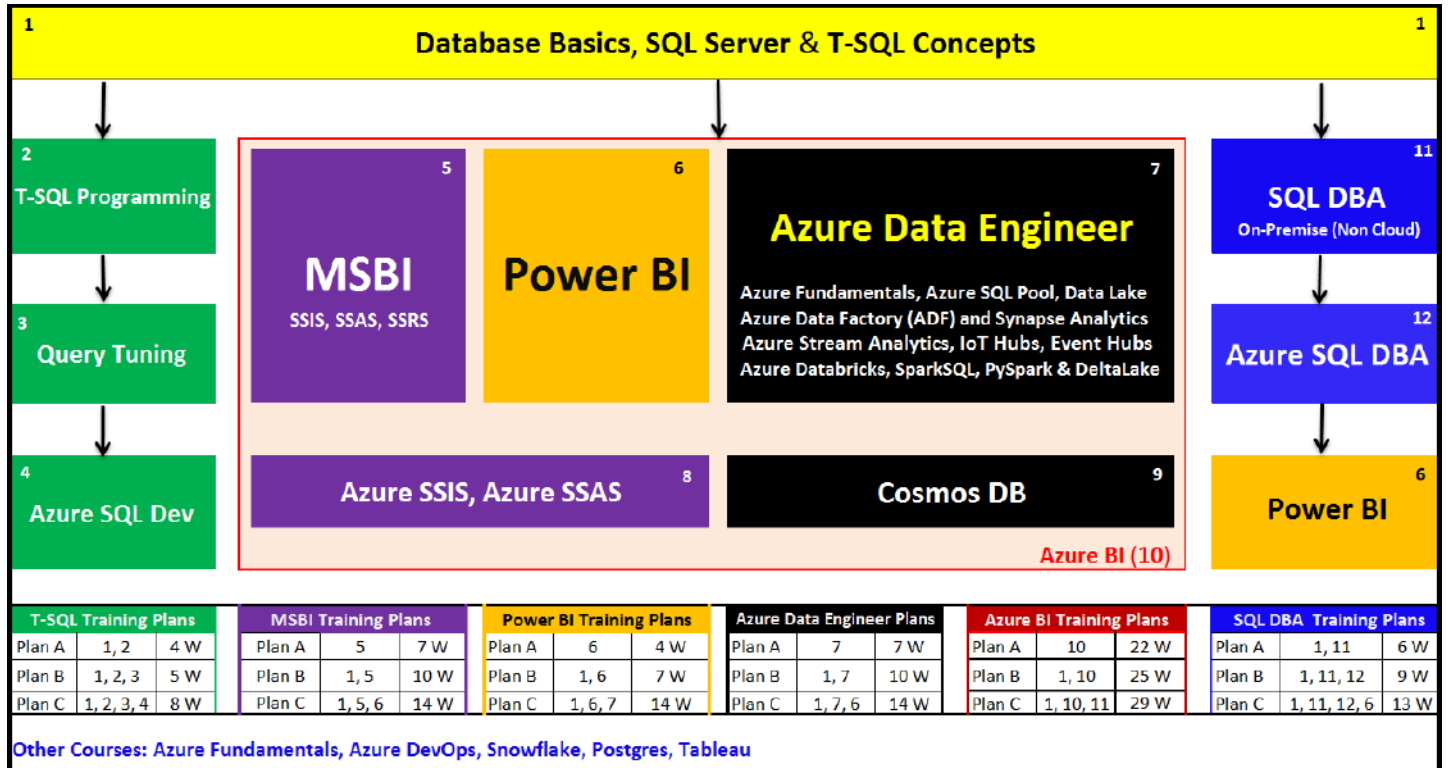
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