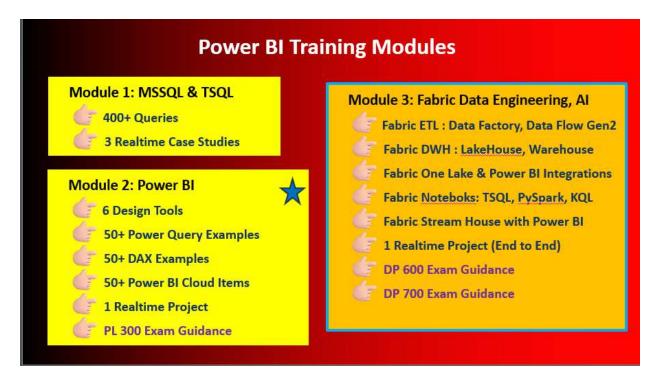


Power BI Training

Complete Practical, Real-time Job Oriented Training

Thank you for contacting our **SQL School**. I am **Mr. Sai Phanindra**, trainer for this **Power BI** Course. With 19+ Years of technical expertise exclusively on Database and Azure, BI Technologies, I assure you 100% Practical, Step by Step Classes for this in-depth Azure Data Engineer course. My Profile @ linkedin.com/in/saiphanindra/



Power BI Training Options (Plans)

| | Inclusions | Duration | Useful For |
|--------|------------------------------------------------------------------------------------|----------|--------------------------|
| Plan A | Module 1: Power BI | 4 Weeks | Starters |
| Plan B | Module 1: MSSQL & TSQL Module 2: Power BI | 7 Weeks | Starters |
| Plan C | Module 1: MSSQL, TSQL Module 2: Power Bl Module 3: Fabric Data Engineering with Al | 13 Weeks | Starters, Experienced |

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Module 1: MSSQL & TSQL

In this module, we start with detailed step by Step Database Fundamentals, SQL Concepts, TSQL Queries with simple but very useful joboriented scenarios. We learn RDBMS, Normal Forms, Stored Procedures, Functions, Triggers, Transactions, Merge, Group By, Window (Rank), CTEs, Query Tuning, more .. with three **Realtime Case Studies** in Health Care Domain.

These concepts will be surely sufficient to proceed for our next modules: **Power BI, Fabric**



Module 2: Power BI

Basic to Advanced **Power BI** training with step by step examples including:

- 1. 6 Design Tools
- 2. Three Technologies (Power Query, DAX, CoPilot)
- 3. 450+ Action Items
- 4. Two Hosting Platforms (Cloud, Report Server)
- 5. PL 300 Exam Guidance

This module includes one **Realtime Project** For your resume in **ECommerce** Domain.



Module 3: Fabric Data Engineer

In this course, we practically learn & implement ETL, ELT, DWH, FDF, LakeHouse, OneLake, StreamHouse, KQL, Data Flow Gen 1, Data Flow Gen 2, Data Lake, Python ETL, PySpark, Scala, Big Data Analytics and more with Medallion Architecture. This course includes various structured and unstructured data sources to implement Upserts, SCD, CDC and more Big Data Techniques ..!

This module includes one **Realtime Project** For your resume in **Ecommerce** Domain



♦ Detailed Course Content ♦ ♦

Module 1: SQL Server TSQL (MSSQL)

Applicable for Plans B, C

| Ch 1: Introduction ✓ Database Introduction ✓ Types of Databases ✓ Need for & ETL, DWH ✓ BI Implementations ✓ SQL Server Advantages ✓ Version, Editions of MSSQL ✓ Engineering, Analytics Roles | Ch 2: Installations ✓ SQL Server 2022, 2019 ✓ SSMS Tools Installation ✓ Database Engine (OLTP) ✓ SCM, Configuration Tools ✓ Instance Types, Uses ✓ Authentication Modes ✓ Collation, File Stream | Ch 3: SQL Basics - 1 ✓ Need for Databases, Tables ✓ Need for SQL Commands ✓ DDL, DML & DQL Statements ✓ Database Creation @ GUI ✓ Data Operations @ GUI ✓ Session ID, SQL Context ✓ DB, Tables, Data @ SQL |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ch 4: SQL Basics - 2 ✓ DDL Variants in MSSQL ✓ DML Variants in MSSQL ✓ INSERT & INSERT INTO ✓ SELECT & SELECT INTO ✓ Basic Operators in SQL ✓ Special Operators in MSSQL ✓ ALTER, ADD, TRUNCATE, DROP | Ch 5: Data Imports, Schemas ✓ Data Imports with Excel ✓ ORDER BY & UNION ✓ UNION ALL For Sorting Data ✓ Creating, Using Schemas ✓ Real-world Banking Database ✓ Table Migrations @ Schemas ✓ 2 Part, 3 Part & 4 Part Naming | Ch 6: Constraints, Index Basics ✓ Need for Constraints, Keys ✓ NULL, NOT NULL, UNIQUE ✓ Primary Key & Foreign Key ✓ RDBMS and ER Models ✓ Identity Property, Default ✓ Clustered Index, Primary Key ✓ Non Clustered Index, Unique |
| Ch 7: Joins & Views Basics ✓ JOINS: Purpose. Inner Joins ✓ Left / Right / Full Outer Joins ✓ Cross Joins, Query Tuning ✓ Creating & Using Views ✓ DML, SELECT with Views ✓ RLS: WITH CHECK OPTION ✓ System Views & Metadata | Ch 8: Functions(UDF), Data Types ✓ Using Functions in MSSQL ✓ Scalar Value Functions ✓ Inline & Multiline Functions ✓ Date & Time Functions ✓ String, Aggregate Functions ✓ Data Types : Integer, Char, Bit ✓ SQL Variant, Timestamp, Date | Ch 9: Stored Procedures, Models ✓ Stored Procedures & Usage ✓ Creating, Testing Procedures ✓ Encryption, Deferred Names ✓ SPs for Validations, Analysis ✓ System SPs, Recompilation ✓ Normal Forms & Types ✓ Data Models, Self-References |
| Ch 10: Triggers, Temp Tables ✓ Need for Triggers ✓ DDL & DML Triggers ✓ Using Memory Tables ✓ Data Replication, Automation ✓ Local & Global Temp Tables ✓ Testing & Using Temp Tables ✓ SELECT INTO & Bulk Loads | Ch 11: DB Architecture, Locks ✓ Planning VLDBs : Files, Sizing ✓ Filegroups, Extents & Types ✓ Log Files : VLF, Mini LSN ✓ Table Location, Performance ✓ Schemas, Transfer, Synonyms ✓ Transactions Types, Lock Hint ✓ Query Blocking Scenarios | Ch 12: Cursors & CTEs, Links ✓ Cursors : Realtime Use ✓ Fetch & Access Cursor Rows ✓ CTEs for SELECT, DML ✓ CTEs: Scenarios & Tuning ✓ Linked Servers, Remote Joins ✓ Linked Servers: MSDTC, RPC ✓ Tuning Remote Queries |
| Ch 13: Merge, Upsert & Rank ✓ Need for Merge in ETL ✓ Incremental Loads with SQL ✓ MERGE and RANK Functions | Ch 14: Grouping & Cube ✓ Group By & HAVING ✓ Cube, Rollup & Grouping ✓ Joins with Group By | Ch 15: Self Joins, Excel Analysis ✓ Self Joins & Self References ✓ UNION, UNION ALL ✓ Sub Queries with Joins |

- ✓ Window Functions, Partition
 ✓ 3 Table, 4 Table Joins
 ✓ IIF, CASE, EXISTS Statements
 ✓ Excel Analytics, Pivot Reports
 - **Realtime Case Study: Health-Care Domain**

Module 2: Power BI

Ch 1: Power BI Introduction Ch 2: Power BI Basic Reports Ch 3: Grouping, Hierarchies ✓ Reporting Basics & Types ✓ Power BI Desktop Installation ✓ Creating Groups in Power BI ✓ Groups : Creation & Usage ✓ Interactive, Analytical Reports ✓ Basic Report Design (PBIX) ✓ Paginated Reports (RDL) ✓ Data View, Data Models ✓ Group Edits Options ✓ Power BI Eco System ✓ Data Points, Aggregations ✓ Bins & Bin Size, Bin Count ✓ Power BI Tools, Service, Server ✓ Focus Mode, Spotlight, Exports ✓ Hierarchies: Creation, Use ✓ Need for Power Query (M) ✓ ToolTip, PBIX and PBIT ✓ Drill Down, Drill Up ✓ Visual Interactions & Edits ✓ Need for DAX & Cloud ✓ Conditional Drill Down Ch 4: Visual Sync, Filters Ch 5: Bookmarks, Big Data Access **Ch 6: Power BI Visualizations** ✓ Slicer & Single Select ✓ Bookmarks Creation & Usage ✓ Chart and Bar Visuals ✓ Multi Select Options ✓ Visual Interactions, Bookmarks ✓ Line and Area Charts ✓ Integer, Character Slicers ✓ Images : Actions, Bookmarks √ Maps, TreeMaps, HeatMaps ✓ Visual Sync with Slicers ✓ Big Data Access with Power BI ✓ Funnel, Card, Multrow Card ✓ Filters: Visual, Page, Report ✓ Storage Modes: Direct Query ✓ PieCharts & Settings ✓ Drill Thru Filters & Usage ✓ Import & Performance Impact ✓ Waterfall, Sentiment Colors √ Formatting & Data Refresh ✓ Scatter Chart, Play Axis ✓ Basic, Top & Advanced ✓ Clear Filter Options, Resets √ Summary & Date Time Formats **Infographics, Classifications Ch 8: Power Query Level 2 Ch 9: Power Query Level 3** Ch 7: Power Query Level 1 ✓ Power Query (Mashup) ✓ Any Column Transformations ✓ Parameters in Power Query **✓** ETL Transformations in PBI ✓ String / Text Transformations ✓ Static Parameters, Defaults ✓ Numeric Analytics & Mashup ✓ Dynamic Dropdowns, Lists ✓ Power Query Expressions ✓ Table Combine Options ✓ Date Time Transformations ✓ Linking with Table Queries ✓ Merge, Union All Options ✓ Add Column Transformations **Column From Examples** ✓ Table Transformations ✓ Expressions and New Columns **Step Edits, Type Conversions** Ch 10: Power BI Cloud - 1 Ch 11: Power BI Cloud - 2 Ch 12: Power BI Cloud - 3 ✓ Data Gateways, Data Refresh ✓ Power BI Cloud Concepts ✓ Power BI Apps, Shares ✓ Workspace Creation, Usage ✓ Data Source Configurations ✓ App Sections & Options ✓ Report Publish & Edits ✓ Data Refresh & Scheduling ✓ App Updates, Security ✓ Semantic Models in Realtime ✓ Gateway Optimizations ✓ Excel Analytics ✓ Dashboard Creation, Usage ✓ Semantic Model Optimizations ✓ Data Explorer Options ✓ Clone, Share, Subscribe **Report Optimizations Sharing, Subscriptions** ✓ Q&A, Lineage, Settings ✓ Dashboard Optimizations ✓ Alerts, Metrics, Insights

| Ch 13: Report Server & DAX ✓ Power BI Report Server ✓ Report Database, TempDB ✓ Web Service & Server URL ✓ Paginated Reports (RDL) ✓ Report Builder Tool Usage ✓ DAX : Purpose, Realtime Use | Ch 14: DAX Level 2 ✓ DAX Measures Creation, Use ✓ DAX Functions: IIF, ISBLANK ✓ SUM, CALCULATE Functions ✓ DAX Cheat Sheet: Examples ✓ Quick Measures in Power BI ✓ Running Totals, Filters | Ch 15: DAX Level 3 ✓ Star Rating Calculations ✓ Data Models & DAX ✓ Star & Snowflake Schemas ✓ Dimensions, Fact Tables ✓ DAX Expressions & Joins ✓ DAX Variables, Usage |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ch 16: DAX Level 4 ✓ Dynamic Report with DAX ✓ SELECTED MEMEBER ✓ Time Intelligence with DAX ✓ PARALLELPERIOD, DATE ✓ DAX with Big Data ✓ Big Data Analytics | Realtime Project | PL 300 Exam Guidance |

♦ Fabric Data Engineer Course Content ♦ ♦

| Ch 1: Fabric Introduction | Ch 2: Fabric Account, Workspace | Ch 3: Fabric Architecture |
|---------------------------------|---------------------------------|--------------------------------|
| ✓ Need for Fabric, Big Data | ✓ Need for Fabric Workspace | ✓ Intelligent Data Foundation |
| ✓ Fabric Data Engineering Model | ✓ Workspace Creation Process | ✓ Polaris Distributed Engine |
| √ Fabric Components (Items) | ✓ Pins and New Items | ✓ Stateless & Stateful |
| ✓ Microsoft Fabric: Advantages | ✓ Item Categorization | ✓ Cache, Metadata, Xact & Data |
| ✓ Cloud Warehouse Uses | ✓ ETL, Storage, Analytical | ✓ Fabric Tasks, Inputs & DAG |
| ✓ Benefits of Fabric Over Azure | ✓ Streaming, Monitoring | ✓ State Machine & Statistics |
| ✓ Azure Versus Fabric DWH | ✓ Compute & Separation | ✓ Hot Spot Recovery |
| Ch 4: Fabric Warehouse | Ch 5: Fabric Data Types | Ch 6: SSMS Connections |
| ✓ Fabric Warehouse Creation | ✓ Realtime use of Fabric Houses | ✓ Warehouse SQL Connection |
| ✓ Fabric Warehouse Features | ✓ Exact, Approximate Numbers | ✓ Database Engine Server |
| ✓ Fabric Warehouse Properties | ✓ Date and Time Data Types | ✓ Multi Factor Authentication |
| ✓ Fabric Warehouse Limitations | √ Fixed & Variable Length | ✓ Warehouse Artifacts |
| ✓ DWH Internal Operations | ✓ Binary & String Data Types | ✓ Executing .SQL Scripts |
| ✓ Default Schemas & Objects | ✓ Fabric Type Limitations | ✓ Testing Fabric Artifacts |
| Ch 7: Fabric Caching | Ch 8: Fabric Statistics | Ch 9: Time Travel |
| ✓ Fabric Caching Process | ✓ Query Engine Options | ✓ Continuous Data Protection |
| ✓ In-memory Cache, Disk Cache | ✓ Statistics Types | ✓ Data Storage, Retention |
| ✓ Cache Types: LRU /MRU | ✓ Leverage Statistics | ✓ FOR TIMESTAMP AS OF |

| ✓ Cold Cache / Cold Run | ✓ Auto, Manual Statistics | ✓ Time Travel Scenarios |
|---------------------------------|-----------------------------------|-------------------------------------------------|
| ✓ Realtime use of Caching | ✓ Update Statistics | ✓ Time Travel Implementation |
| _ | ✓ Statistics Consistency | ✓ Time Travel on Queries |
| 1 011011114111071411144 | I - | |
| ✓ Warehouse Optimizations | Transmits Elected Reports | |
| Ch 10: Aggregated Data Store | Ch 11: Zero Copy Cloning | Ch 12: Fabric Security |
| ✓ Options for Data Aggregations | ✓ User Layer, Storage Layer | ✓ Workspace Security |
| ✓ Save As table, Save As View | ✓ Cloning & Parquet Files | ✓ Warehouse Security |
| ✓ Single Table Aggregations | ✓ Synapse Data Warehouse | ✓ Item Security & Roles |
| ✓ Multi Table Aggregations | ✓ Data History Retention | ✓ Adding AD Users |
| ✓ Dynamic Conditions | ✓ Point In Time , Schema Level | ✓ Item Security Limitations |
| ✓ Parameterized Aggregations | ✓ Zero Copy Cloning Limitations | ✓ MFA & Client Security |
| Ch 13: Fabric Data Factory | Ch 14: Fabric Pipelines | Ch 15: Fabric Pipelines Design |
| ✓ ETL Implementation Options | ✓ Activities and Connections | ✓ Creation Options for Pipelines |
| ✓ Need for Fabric Data Factory | ✓ Gateways & OnPrem Access | ✓ Azure SQL DB Data Loads |
| ✓ ETL Operations in FDF | ✓ Data Sets & Activity Sets | ✓ Creating Data Sets |
| ✓ Data Sources, Transformations | ✓ Data Activator & Alerts | ✓ RRR Transformations |
| ✓ Data Destinations (Sinks) | ✓ Run ID & Monitoring | ✓ Copy Command Usage |
| ✓ Creating Pipelines | ✓ Pipeline Creation, Verification | ✓ Internal Staging (Workspace) |
| | ✓ Activity Check, Schedule | ✓ Data Loads to FDWH |
| Ch 16: Fabric Aggr Data Loads | Ch 17: ETL Staging | Ch 18: OnPrem Gateways |
| ✓ Aggregation Scenarios | √ Staging : Advantages | ✓ Need for On_Premi Gateway |
| ✓ Creating Views in TSQL | ✓ Caching & Storing Concept | ✓ Installing & Configuring |
| ✓ Using Views in FDF Pipelines | ✓ Staging Types in Fabric | ✓ Authentication, Usage |
| ✓ Using Pipeline Editor | √ Workspace & External | ✓ OnPremises Connections |
| ✓ Data Loads to Warehouse | ✓ External Stages in Pipelines | ✓ Pipelines for Data Loads |
| ✓ Pipeline Verifications | ✓ Compressions & Advantages | ✓ Warehouse Data Storage |
| | ✓ Pipeline Trigger, Monitor | ✓ Data Refresh with Gateways |
| Ch 19: Fabric Lakehouse | Ch 20: Lakehouse File Loads | Ch 21: Lakehouse Aggr Loads |
| ✓ Need for Fabric Lakehouse | ✓ Creating Lakehouse | ✓ Aggregated Data Store |
| ✓ Files and Tables Storage | ✓ Copy Data Wizard | ✓ Plan & Design Aggregations |
| ✓ Data Sources: Parquet Files | ✓ Azure SQL Database Source | ✓ Testing Aggregations |
| ✓ Transformation Options | ✓ File Data Loads in Lakehouse | ✓ Pipelines for Data Compute |
| ✓ Direct Lake Concepts | ✓ Concurrency & Batch Count | ✓ Data Copy Options |
| ✓ Lakehouse Consumption | ✓ Pipeline Execution Tests | ✓ Pipeline Optimizations |
| ✓ Lakehouse Real time Use | ✓ Pipeline Monitor Check | ✓ Data Loads and Verification |
| Ch 22: MultiTable Loads in LH | Ch 23: Lakehouse Visual Queries | Ch 24: File Explorer |
| ✓ Table Loads Connections | ✓ Visual Query Interface | ✓ Installing One Lake Explorer |
| ✓ Data Load in Lakehouse | ✓ Visual Editor & Tables / Views | ✓ Autocreation of Folders |
| ✓ Using Copy Data Wizard | ✓ Merge, Remove, Sort Tfns | ✓ Workspace Directories |
| ✓ Data Store in Lakehouse | ✓ Data Preview, Save As Table | ✓ Warehouse Directories, Logs |
| ✓ View Run History, Executions | ✓ Save As View : Advantages | ✓ Lakehouse Folders, Files |
| ✓ SQL End Points & Access | ✓ Using Schemas, Identifiers | ✓ Lakehouse Uploads |
| ✓ Lakehouse Schemas | ✓ TDS Packets & Transfer Units | ✓ Explorer Tool Limitations |
| , Lakeliouse Schellias | , IDS FACKELS & HAHSTEI UIIILS | - Explorer roof clillications |

| Ch 25: Power Query Level 1 | Ch 26: Power Query Level 2 | Ch 27: Power Query Level 3 |
|----------------------------------|---------------------------------|----------------------------------|
| ✓ Power Query Concept | ✓ Data Flow Gen2 Operations | ✓ Binding Power Query Steps |
| ✓ Need for Power Query | ✓ PQ Online Editor | ✓ Edit / Delete Steps |
| ✓ Data Flow Gen 1 | ✓ Working with Binary Content | ✓ Optimizing Power Query |
| ✓ Data Flow Gen 2 | ✓ Detailed Data Options | ✓ ETL & ELT with Power Query |
| ✓ Power Query Items | ✓ Data Cleansing Options | ✓ Advanced Editor |
| ✓ Differences with Copy Activity | ✓ Step Names, Aggregations | ✓ M Language Expressions |
| ✓ ETL, ELT Process | ✓ Warehouse Data Loads | ✓ Duplicate / Reference Queries |
| Ch 28: Fabric Notebooks | Ch 29: Spark SQL Notebooks | Ch30: PySpark Notebooks |
| ✓ Need for Notebooks | ✓ Creating Environment | ✓ Creating / Using Environment |
| ✓ Fabric Notebook Types | ✓ Creating Spark Clusters | ✓ PySpark Notebook Sessions |
| ✓ Get / Prep / Analyze | ✓ Spark Cluster Compute | ✓ Reading Source Data |
| ✓ Sessions, Markdown Folding | ✓ SQL Analytics in Notebooks | ✓ Data Prep & Aggregations |
| ✓ Standard, High Concurrency | ✓ Visual Query Vs SQL | ✓ Data Loads, Analytics |
| ✓ Magic Command | ✓ Cell Execution Options | ✓ Cell Execution Options |
| ✓ Freeze Cells | ✓ Magic Command Usage | ✓ Markdown Cells |
| Ch 31: StreamHouse, KQL | Ch 32: KQL Query Sets | Ch 33: Fabric Data Activator |
| ✓ Need for Stream House | ✓ KQL Database Extraction | ✓ Need for Alerts, Notifications |
| ✓ Auto creation of KQL | ✓ File Imports - on Premises | ✓ Fabric Data Activator Options |
| ✓ Manual KQL Databases | ✓ Metadata Edit Options | ✓ Alert Conditions, Thresholds |
| ✓ Verification & Usage | ✓ Query Analytics | ✓ Email Notifications |
| ✓ Differences with Warehouse | ✓ Exports, Visualizations | ✓ Events & Notifications |
| ✓ Differences with Lakehouse | ✓ Query Sets Versus Notebooks | ✓ Edit / Enable / Disable |
| Ch 34: Model Layouts | Ch 35: Azure Synapse Migrations | |
| ✓ Need for Layouts | ✓ Azure Synapse DWH | |
| ✓ Creating Model Layouts | ✓ Azure Synapse Connections | Ch 36: |
| ✓ Adding Refences, Keys | ✓ Migrating to Fabric | DP 600, DP700 Exam Guidance |
| ✓ Power BI Semantic Models | ✓ Compatibility Checks | |
| ✓ Creating Report Items | ✓ Synapse Vs Fabric Warehouse | |
| ✓ Using Power BI Desktop | ✓ Fabric DWH Advantages | |
| | | |

End to End Realtime Project: Ecommerce Domain

This course also includes:

✓ Certification Guidance

✓ Mock Interviews

✓ Resume Guidance

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Trainer Contact: +91 9030040801

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------ All the best! -------