

FABRIC DATA ENGINEERING

100% Practical, Step by Step. Result Driven.

Thank you for contacting our **SQL School**. I am **Mr. Sai Phanindra**, trainer for this **Fabric Data Engineer** Course. With over 20 years of experience in Database Technologies, Fabric Data Engineering, Business Intelligence, and Data Warehousing, I provide 100% practical, step-by-step training with real-world projects and industry best practices.

Let's Connect on LinkedIn: [linkedin.com/in/saiphanindra/](https://www.linkedin.com/in/saiphanindra/)

This Fabric Data Engineering Course is divided into THREE comprehensive modules:

Module 1: SQL Server (MSSQL) & TSQL

Module 2: Fabric Data Engineering

Module 3: Power BI with AI, CoPilot (Optional, Recommended for Experienced Profiles)

 FABRIC DATA ENGINEER TRAINING PLANS				
PLAN	WHAT YOU WILL LEARN	REALTIME PROJECT	CERTIFICATIONS	DURATION
PLAN A FOUNDATION 	Fabric Data Engineer	 One	 DP-700	 6 Weeks
PLAN B INTERMEDIATE 	- MSSQL & TSQL, Tuning - Fabric Data Engineer	 One	 DP-700	 10 Weeks
PLAN C ADVANCED 	- MSSQL & TSQL, Tuning - Fabric Data Engineer - Power BI with AI, CoPilot	 Two	 DP-600, DP-700	 15 Weeks
 Industry Expert Trainers  Hands-on Learning  Real-time Projects for Practical Exposure  Career Support & Guidance  Certification Ready				

Who Should Join?

- SQL Developers
- BI Developers
- Data Analysts

Prerequisites

- No experience required
- We start from the basics and build your skills step by step.



🔒 Detailed Course Content 🔒

Module 1: SQL Server (MSSQL), TSQL

Ch 1: SQL Database Job Roles

- ✓ Database Intro
- ✓ OLTP, DWH, OLAP
- ✓ DBMS Basics
- ✓ Data Engineer Job Roles

Ch 2: Database Intro & Installations

- ✓ SQL Server Installations
- ✓ Instance & Collations
- ✓ SSMS Tool Installation
- ✓ Connections, Authentications

Ch 3: SQL Basics V1 (Commands)

- ✓ SQL Basics (DDL, DML, etc..)
- ✓ Creating Databases, Tables
- ✓ Data Inserts (GUI, SQL)
- ✓ Basic SELECT Queries

Ch 4: SQL Basics V2 (Commands, Operators)

- ✓ DDL: Create, Alter, Drop
- ✓ DML: Insert, Update, Delete

- ✓ DQL: Select, Fetch
- ✓ Add, Truncate Statements
- ✓ SQL Operators

Ch 5: Data Types & Variables

- ✓ Integer Data Types
- ✓ Character, MAX Data Types
- ✓ Decimal & Boolean Data Types
- ✓ Date and Time Data Types
- ✓ SQL_Variant Type

Ch 6: Data Imports From Files

- ✓ Data Imports with Excel
- ✓ Data Imports with CSV
- ✓ Auto Detection of DataTypes
- ✓ OLE-DB Connections
- ✓ Order By, TOP, OFFSET

Ch 7: Sub Queries

- ✓ Basic Sub Queries
- ✓ Aggregations
- ✓ Combining Queries
- ✓ UNION, UNION ALL

Ch 8: Schemas & Batches

- ✓ Schemas: Creation, Usage
- ✓ Schemas & Table Grouping
- ✓ Real-world Banking Database
- ✓ 2 Part, 3 Part & 4 Part Naming
- ✓ Batch Concept & “Go” Command

Ch 9: Constraints, Keys & RDBMS

- ✓ Null, Not Null Constraints
- ✓ Unique Key & Check
- ✓ Primary Key Constraint
- ✓ Foreign Keys, Default
- ✓ DB Diagrams & ER Models

Ch 10: Normal Forms & RDBMS

- ✓ Normal Forms: 1 NF, 2 NF
- ✓ 3 NF, BCNF and 4 NF
- ✓ 1:1, 1:M, M:1 Cardinality
- ✓ Cascading Keys
- ✓ Self Referencing Keys

Ch 11: Joins & Queries

- ✓ Joins: Table Comparisons
- ✓ Inner Joins & Matching Data

- ✓ Outer Joins: LEFT, RIGHT
- ✓ Full Outer Joins & Aliases
- ✓ Self Joins & Aliases

Ch 12: Views & RLS

- ✓ Views: Realtime Usage
- ✓ DML, SELECT with Views
- ✓ Excel Analytics with Views
- ✓ Important System Views

Ch 13: Stored Procedures - 1

- ✓ Stored Procedures: Realtime Use
- ✓ Parameters Concept with SPs
- ✓ Procedures with SELECT
- ✓ System Stored Procedures
- ✓ Stored Procedures, Tuning

Ch 14: Stored Procedures - 2

- ✓ Merge Statement (Upsert)
- ✓ Merge with OLTP & DWH
- ✓ Matched and Not Matched
- ✓ Merge Statement inside SPs
- ✓ SP Recompilations

Ch 15: User Defined Functions - 1

- ✓ Scalar Functions in Real-world
- ✓ Inline & Multiline Functions
- ✓ Parameterized Queries
- ✓ Variables & Parameters
- ✓ Function Executions

Ch 16: User Defined Functions - 2

- ✓ Date & Time Functions
- ✓ String Functions & Queries
- ✓ Aggregated Functions & Usage
- ✓ Window Functions (Rank)
- ✓ Row_Number, DenseRank
- ✓ Partition By & Order By

Ch 17: Triggers & Automations

- ✓ Need for Triggers in Real-world
- ✓ DDL & DML Triggers
- ✓ For / After Triggers
- ✓ Instead Of Triggers
- ✓ Memory Tables with Triggers
- ✓ Disabling DMLs Triggers

Ch 18: Group By Queries

- ✓ Group By, Distinct
- ✓ GROUP BY, HAVING
- ✓ Cube() and Rollup()
- ✓ Sub Totals & Grand Totals
- ✓ Grouping() & Usage

Ch 19: Joins with Group By

- ✓ 3 Table, 4 Table Joins
- ✓ Join Queries & WHERE
- ✓ Join Queries & Group By
- ✓ IIF(), CASE Statement
- ✓ Query Execution Order

Ch 20: Transactions & ACID

- ✓ Auto Commit Transaction
- ✓ Explicit Transactions
- ✓ COMMIT, ROLLBACK
- ✓ Checkpoint & Query Blocking
- ✓ READPAST, LOCKHINT

Ch 21: Indexes Basics, Tuning

- ✓ Clustered Index, Primary Key
- ✓ Non Clustered Index
- ✓ Query Optimizer
- ✓ Tuning Join Queries
- ✓ Tuning Group By Queries

Ch 22: CTEs & Tuning

- ✓ Common Table Expression
- ✓ CTEs for Data Retrieval
- ✓ CTEs for DML Operations
- ✓ CTEs for Data Cleansing
- ✓ Using CTEs with Row Number

Ch 23: Cursors & Temp Tables

- ✓ Cursors & Fetch
- ✓ Local Temp Tables
- ✓ Global Temp Tables
- ✓ SELECT..INTO Statement

Ch 24: SQL Server Architecture

- ✓ Network Protocols
- ✓ Storage Engine
- ✓ Query Processing Engine
- ✓ Query Execution Order
- ✓ SQL OS Components

Ch 25: Capstone Project (HealthCare Management System)

- ✓ eCommerce Database
- ✓ Data Validations
- ✓ Query Writing
- ✓ Query Tuning
- ✓ Excel Analytics

Module 2: Fabric Data Engineering

Part 1: Fabric Concepts, DWH & Fabric Data Factory

Ch 1: Fabric Introduction

- ✓ Need for Fabric, Big Data
- ✓ Fabric Data Engineering Model
- ✓ Fabric Components (Items)
- ✓ Microsoft Fabric: Advantages
- ✓ Cloud Warehouse & AI
- ✓ AI with CoPilot
- ✓ Azure Versus Fabric DWH

Ch 2: Fabric Account, Workspace

- ✓ Need for Fabric Workspace
- ✓ Workspace Creation Process
- ✓ ETL, Storage, Analytical
- ✓ Streaming, Monitoring
- ✓ Compute & Separation

Ch 3: Fabric OneLake Architecture

- ✓ Intelligent Data Foundation
- ✓ Polaris Distributed Engine
- ✓ Stateless & Stateful
- ✓ Cache, Metadata, Xact & Data
- ✓ Fabric Tasks, Inputs & DAG
- ✓ State Machine & Statistics
- ✓ Hot Spot Recovery

Ch 4: Fabric Warehouse

- ✓ Fabric Warehouse Creation
- ✓ Fabric Warehouse Features
- ✓ Fabric Warehouse Properties
- ✓ Fabric Warehouse Limitations
- ✓ DWH Internal Operations
- ✓ Default Schemas & Objects
- ✓ SSMS Connections

Ch 5: Fabric Data Types

- ✓ Realtime use of Fabric Houses
- ✓ Exact, Approximate Numbers
- ✓ Date and Time Data Types
- ✓ Fixed & Variable Length
- ✓ Binary & String Data Types
- ✓ Fabric Type Limitations
- ✓ Save As table, Save As View

Ch 6: Fabric Caching

- ✓ Fabric Caching Process
- ✓ In-memory Cache, Disk Cache
- ✓ Cache Types: LRU /MRU
- ✓ Cold Cache / Cold Run
- ✓ Realtime use of Caching
- ✓ Performance Advantages
- ✓ Warehouse Optimizations

Ch 7: Fabric Statistics

- ✓ Query Engine Options
- ✓ Statistics Types
- ✓ Leverage Statistics
- ✓ Auto, Manual Statistics
- ✓ Update Statistics
- ✓ Statistics Consistency
- ✓ Statistics Lists & Reports

Ch 8: Time Travel

- ✓ Continuous Data Protection
- ✓ Data Storage, Retention
- ✓ FOR TIMESTAMP AS OF
- ✓ Time Travel Scenarios
- ✓ Time Travel Implementation
- ✓ Time Travel on Queries
- ✓ Time Travel Limitations

Ch 9: Zero Copy Cloning

- ✓ User Layer, Storage Layer
- ✓ Cloning & Parquet Files
- ✓ Synapse Data Warehouse
- ✓ Data History Retention
- ✓ Point In Time , Schema Level
- ✓ Zero Copy Cloning Limitations

Ch 10: Fabric Security

- ✓ Workspace Security
- ✓ Warehouse Security

- ✓ Item Security & Roles
- ✓ Adding AD Users
- ✓ Item Security Limitations
- ✓ MFA & Client Security

Ch 11: Fabric Copy Job

- ✓ ETL Implementation Options
- ✓ Copy Job Item
- ✓ Data Loads with Copy Job
- ✓ Full Loads
- ✓ Testing Copy Jobs

Ch 12: Fabric Copy Job

- ✓ Incremental Loads with Copy Job
- ✓ Business Key Concept
- ✓ DWH: Data Storage
- ✓ Testing Initial Loads
- ✓ Testing Incremental Loads
- ✓ Copy Job Limitations

Ch 13: Fabric Data Factory

- ✓ Need for Fabric Data Factory
- ✓ ETL Operations in FDF
- ✓ Data Sources, Transformations
- ✓ Activities and Connections
- ✓ Data Destinations (Sinks)
- ✓ Creating Pipelines

Ch 14: Fabric Pipelines Design

- ✓ Creation Options for Pipelines
- ✓ Azure SQL DB Data Loads
- ✓ Creating Data Sets
- ✓ Copy Command Usage
- ✓ Run ID & Monitoring
- ✓ Pipeline Creation, Verification

Ch 15: Data Loads with Azure

- ✓ Azure Data Lake Storage (ADLS)
- ✓ Azure BLOB Containers
- ✓ Fabric Data Loads From Azure Files
- ✓ Fabric Warehouse with Azure
- ✓ Run IDs and Activity
- ✓ Compressions & Advantages

Ch 16: ETL Staging

- ✓ Staging: Advantages
- ✓ Caching & Storing Concept

- ✓ Staging Types in Fabric
- ✓ Workspace & External
- ✓ External Stages in Pipelines
- ✓ Pipeline Trigger, Monitor

Ch 17: Fabric Aggr Data Loads

- ✓ Aggregation Scenarios
- ✓ Creating Views in TSQL
- ✓ Using Views in FDF Pipelines
- ✓ Using Pipeline Editor
- ✓ Data Loads to Warehouse
- ✓ Pipeline Verifications

Ch 18: Fabric Incremental Loads - 1

- ✓ Upsert (Incremental Loads)
- ✓ Business Key Concept
- ✓ SCD: Slowly Changing Dimension
- ✓ Full Loads Vs Incr Loads
- ✓ Testing Incrementing Loads
- ✓ Pipeline Execution Tests

Ch 19: Fabric Incremental Loads - 2

- ✓ Control Tables
- ✓ Watermark Columns
- ✓ Lookup Activity
- ✓ Stored Procedure Activity
- ✓ Parameters & Runs
- ✓ Concurrency & Batch Count

Ch 20: OnPrem Gateways

- ✓ Need for On-Premise Gateway
- ✓ Installing & Configuring
- ✓ Authentication, Usage
- ✓ On-Premise Connections
- ✓ Pipelines for Data Loads
- ✓ Warehouse Data Storage
- ✓ Data Refresh with Gateways

Ch 21: Data Factory Pipeline Tuning

- ✓ Intelligent Throughput
- ✓ DOCP & Optimizations
- ✓ Staging & In-Memory
- ✓ Spark Compute Options
- ✓ Concurrent Connections
- ✓ ETL Partitions in Real-world

Part 2: Fabric Data Flow, Lake House

Ch 1: Fabric Lakehouse

- ✓ Fabric Lakehouse Architecture
- ✓ Files and Tables Storage
- ✓ Direct Lake & AI
- ✓ Creating Lakehouse
- ✓ Azure SQL Database Source
- ✓ UI: Limitations

Ch 2: Lakehouse File Loads

- ✓ Creating Lakehouse
- ✓ Incremental Refresh
- ✓ Computed Tables
- ✓ Reusable Transformations
- ✓ Scheduling
- ✓ Monitoring
- ✓ Best Practices

Ch 3: Power Query Level 1

- ✓ Power Query Concept
- ✓ Fabric Lake House
- ✓ ETL, ELT Process with AI
- ✓ Data Combine: Union, Append
- ✓ Duplicate / Reference Queries
- ✓ Warehouse Data Loads

Ch 4: Power Query Level 2

- ✓ Table Transformations
- ✓ Group By, Transpose
- ✓ Header Row Promotion
- ✓ Reverse Rows, Count Rows
- ✓ Any Column Transformations
- ✓ Data Type, Fill & Pivot

Ch 5: Power Query Level 3

- ✓ Text Transformations
- ✓ Format, SubString
- ✓ Number Transformations
- ✓ Date Time Transformations
- ✓ Add Column Transformation

Ch 6: Power Query Level 4

- ✓ Column From Examples
- ✓ Conditional Column
- ✓ Index Transformation
- ✓ Duplicate Rows, Errors
- ✓ Advanced Editor

Ch 7: Power Query Level 5

- ✓ ETL Parameters
- ✓ Big Data Access
- ✓ Static Parameters
- ✓ Dynamic Parameters
- ✓ List Queries
- ✓ M Language Expressions

Ch 8: Stream House, KQL

- ✓ Need for Stream House
- ✓ Auto creation of KQL
- ✓ Manual KQL Databases
- ✓ Differences with Warehouse
- ✓ Differences with Lakehouse

Ch 9: KQL Query Sets

- ✓ KQL Database Extraction
- ✓ File Imports - on Premises
- ✓ Metadata Edit Options
- ✓ Query Analytics
- ✓ Exports, Visualizations
- ✓ Query Sets Versus Notebooks

Ch 10: Fabric Data Activator

- ✓ Need for Alerts, Notifications
- ✓ Fabric Data Activator Options
- ✓ Alert Conditions, Thresholds
- ✓ Email Notifications
- ✓ Events & Notifications
- ✓ Edit / Enable / Disable

Ch 11: Mirror Database

- ✓ Need for Mirror Databases
- ✓ Configure Mirror Databases
- ✓ Data Replication
- ✓ Schema Replication
- ✓ Connections & Usage
- ✓ Mirror DB Practical uses

Part 3: Python, PySpark, DWH

Ch 1: Fabric Notebooks

- ✓ Need for Notebooks
- ✓ Fabric Notebook Types
- ✓ Creating Environment
- ✓ Creating Spark Clusters
- ✓ Standard, High Concurrency
- ✓ Magic Command
- ✓ Freeze Cells

Ch 2: Spark SQL - 1

- ✓ Spark SQL Notebooks
- ✓ Creating Schemas
- ✓ Delta Tables
- ✓ Parquet Tables
- ✓ Spark Joins
- ✓ Data Partitioning
- ✓ Union, Views in Spark

Ch 3: Spark SQL - 2

- ✓ Math, Sort Functions
- ✓ String, Date Time Functions
- ✓ Conditional Statements
- ✓ Data Recovery & Undo
- ✓ Version Number
- ✓ Describe Extended

Ch 4: Python Intro & Print

- ✓ Python Introduction
- ✓ Python Versions
- ✓ Python in Spark (PySpark)
- ✓ Python Print()
- ✓ Single, Multiline Statements

Ch 5: Python Variables

- ✓ Defining Variables
- ✓ Using Variables
- ✓ Printing Variables
- ✓ Display Variables
- ✓ Variable Types
- ✓ Multi Value Variables
- ✓ If ... Else Statement

Ch 6: Python Operators

- ✓ Integer Operators
- ✓ String Operators
- ✓ Arithmetic Operators
- ✓ Assignment Operators
- ✓ Comparison Operators
- ✓ Formatted Strings
- ✓ Indexing Operators
- ✓ ELIF, ELSE IF Statements

Ch 7: Python Data Types

- ✓ Python Data Types
- ✓ Integer / Int Data Types
- ✓ Float, String Data Types
- ✓ List Data Type

- ✓ List Items, Indexes
- ✓ Tuple Data Type
- ✓ Dictionary Data Type

Ch 8: Python Dataframes

- ✓ Pandas Module (Python)
- ✓ Dataframes from Lists
- ✓ Dataframe from Dict
- ✓ Pandas Dataframes
- ✓ Dataframe print, display

Ch 9: Python Dataframes Transformations

- ✓ Append
- ✓ Append with NoIndex
- ✓ Merge with ON, KIND
- ✓ spark.read.csv()
- ✓ spark.read.format()

Ch 10: Medallion Architecture

- ✓ Bronze, Gold and Silver
- ✓ Raw Data
- ✓ Data Preparation (Prepping)
- ✓ Temporary Views
- ✓ Big Data Analytics

Ch 11: PySpark: Medallion Loads 1

- ✓ Data Prep (Silver)
- ✓ Filtering DataFrame Records
- ✓ Removing Duplicate Records
- ✓ Sorting and Limiting Records
- ✓ Spark SQL Dataframes
- ✓ Gold Layer Implementation
- ✓ Testing Aggregated Loads

Ch 12: PySpark: Medallion Loads 2

- ✓ Azure SQL DB Connections
- ✓ SQL Queries in PySpark
- ✓ Data Prep (Silver)
- ✓ Filtering Null Values
- ✓ Grouping and Aggregating
- ✓ Spark SQL Dataframes
- ✓ Gold Layer Implementation
- ✓ Notebook Utilities

Ch 13: PySpark: SCD

- ✓ Slowly Changing Dimension
- ✓ Merge Into Statement
- ✓ Error Handling
- ✓ Merge with OLTP Data Sources

Ch 14: PySpark: Widgets

- ✓ Notebook Parameters
- ✓ Text Widgets
- ✓ Parameters & JSON
- ✓ Notebook Schedules, Retry
- ✓ Modular Notebook Design
- ✓ Notebook Chaining

Ch 15: LakeHouse Architecture Optimizations

- ✓ Delta Log
- ✓ Delta Versioning
- ✓ Partition Strategy
- ✓ Small File Problem
- ✓ Adaptive Query Execution
- ✓ Explain Plan, Spark UI
- ✓ mssparkutils

Ch 16: LakeHouse Optimizations

- ✓ VACUUM, OPTIMIZE
- ✓ ZORDER
- ✓ Broadcast Join
- ✓ Cache, Persist
- ✓ Shuffle Optimization

Ch 17: Semantic Models

- ✓ Creating Semantic Model
- ✓ Spark SQL: DDL, DML
- ✓ Adding References, Keys
- ✓ Using Model Layouts

Ch 18: Fabric Security

- ✓ Workspace Security
- ✓ Lakehouse Security
- ✓ Notebook Security
- ✓ Security Principals
- ✓ Authentication Options
- ✓ MFA (Multi Factor Authentication)

Realtime Project on ECommerce Platform using Microsoft Fabric

Business Scenario

A multinational e-commerce company wants to centralize sales, customers, products, orders, inventory, logistics and payment data into Microsoft Fabric.

Goal:

Create a scalable Fabric Data Platform capable of processing millions of records daily.

Skills Gained:

- Fabric Pipelines
- Fabric Notebooks
- Fabric Data Flow
- Semantic Models
- Medallion Architecture (Bronze/Silver/Gold)
- Real-Time Industry Experience
- Fabric APIs (REST, Workspace)

Components For Project (From Resume Perspective):

- Bronze
- Silver
- Gold
- PySpark
- CI/CD
- Deployment
- End to End Integrations
- DP-700 Exam: Complete Guidance

Module 3: Power BI With AI, Co-Pilot

Ch 1: Power BI Intro, Installation

- ✓ Power BI & Data Analysis
- ✓ Power BI Eco System
- ✓ Power BI Design Tools
- ✓ PBI Hosting Solutions
- ✓ Power BI Installation

Ch 2: Report Design Concepts

- ✓ Basic Report Design (PBIX)
- ✓ Get Data, Canvas (Design)
- ✓ Data View, Data Models
- ✓ Data Points, Spotlight
- ✓ Focus Mode, PDF Exports

Ch 3: Visual Interactions, PBIT

- ✓ Visual Interactions & Edits
- ✓ Limitations with Visual Edits
- ✓ Creating Power BI Templates
- ✓ CSV Exports & PBIT Imports

Ch 4: Grouping, Hierarchies

- ✓ Creating Groups: Lists
- ✓ Creating Groups: Bins
- ✓ List Items & Group Edits

- ✓ Bin Size & Bin Count

Ch 5: Slicer & Visual Sync

- ✓ Slicer Visual in Power BI
- ✓ Slicer: Format Options
- ✓ Single Select, Multi Select
- ✓ Slicer: Select All On / Off
- ✓ Visual Sync with Slicers

Ch 6: Hierarchies & Drill-Down

- ✓ Hierarchies: Creation, Use
- ✓ Hierarchies: Advantages
- ✓ Drill Up, Drill Down
- ✓ Conditional Drill Down
- ✓ Filtered Drill Down, Table View

Ch 7: Filters & Drill Thru

- ✓ Power BI Filters
- ✓ Basic, Top & Advanced
- ✓ Visual Filters, Page Filters
- ✓ Report Level Filters, Clear Filter
- ✓ Drill Thru Filters & Usage

Ch 8: Bookmarks, Buttons

- ✓ Power BI Bookmarks
- ✓ Images: Actions, Bookmarks
- ✓ Buttons: Actions, Bookmarks
- ✓ Page to Page Navigations
- ✓ Score Cards, Master Pages

Ch 9: SQL DB Access & Big Data

- ✓ SQL DB Access, Queries
- ✓ Storage Modes: Direct Query
- ✓ Formatting & Date Time
- ✓ Storage Modes in Power BI
- ✓ Azure (Big Data) Access & Formatting

Ch 10: Power BI Visualizations

- ✓ Charts, Bars, Lines, Area
- ✓ TreeMaps & HeatMaps
- ✓ Funnel, Card, Multrow Card
- ✓ PieCharts & Waterfall
- ✓ Scatter Chart, Play Axis
- ✓ Infographics, Classifications

Ch 11: Power Query Introduction

- ✓ Power Query (Mashup)
- ✓ ETL Transformations in PBI
- ✓ Table Combine Options
- ✓ Merge, Union All Options
- ✓ Missing Values, Duplicate Records
- ✓ Wrong Data Types, Outliers
- ✓ Close, Apply & Visualize

Ch 12: Power Query: Table Transformations

- ✓ Table Duplicate, Header Promotion
- ✓ Group By Transformation
- ✓ Aggregate, Pivot Operation
- ✓ Reverse Rows, Count Rows
- ✓ Advanced Power Query Mode
- ✓ Data Cleaning, Null Handling

Ch 13: Power Query: Column Transformations

- ✓ Any Column Transformations
- ✓ Data Type Detection, Change
- ✓ Rename, Replace, Move
- ✓ Fill Up, Fill Down
- ✓ Step Edits & Rollbacks

Ch 14: Power Query: Text, Date Transformations

- ✓ String / Text Transformations
- ✓ Split, Merge, Extract, Format
- ✓ Numeric and Date Time
- ✓ Add Column & Expressions
- ✓ Column From Examples

Ch 15: Power Query: Parameters, Expressions

- ✓ Parameters in Power Query
- ✓ Static Parameters, Defaults
- ✓ Dynamic Dropdowns, Lists
- ✓ Linking with Table Queries
- ✓ Step Edits, Type Conversions
- ✓ API & Web Data Sources

Ch 16: Power BI Cloud & Fabric

- ✓ Power BI Cloud, Microsoft Fabric
- ✓ Microsoft Fabric Concepts
- ✓ Fabric One Lake (DWH, LH, etc.)

- ✓ Microsoft Fabric Workspace
- ✓ Power BI Desktop Connections
- ✓ Report Uploads (PBIX)
- ✓ Report Edits, Semantic Models

Ch 17: Power BI Cloud Dashboards

- ✓ Power BI Dashboards
- ✓ Dashboard Creation, Usage
- ✓ Pin Visuals, Pin LIVE Pages
- ✓ Add Image, Video Tiles
- ✓ Q&A & Pin Tiles

Ch 18: Power BI Cloud Operations

- ✓ Report Shares, Alerts
- ✓ Subscriptions, Exploration
- ✓ Downloads & Edits
- ✓ Report Cloning in Cloud
- ✓ QR Codes, Web Publish
- ✓ Lineage & Metrics

Ch 19: Power BI Cloud Gateways

- ✓ Data Gateways, Data Refresh
- ✓ Install, Configure Gateways
- ✓ Data Refresh & Scheduling
- ✓ Gateway Optimizations
- ✓ Incremental Refresh
- ✓ Large Dataset Optimization

Ch 20: Power BI Cloud Apps

- ✓ Power BI Apps: Creation
- ✓ App Sections & Content
- ✓ Audience & App Security
- ✓ App Updates, Favorites
- ✓ App URL, End User Access

Ch 21: Power BI Report Server

- ✓ SQL Server 2025
- ✓ Power BI Report Server
- ✓ RS Config Tool Options
- ✓ Report Database, TempDB
- ✓ Web Service & Server URL

Ch 22: Paginated Reports

- ✓ Report Builder Tool

- ✓ Paginated Report (RDL)
- ✓ Report Expressions (RDL)
- ✓ Tablix, Chart Wizards
- ✓ Fields & Drill-Down
- ✓ RDL Report Publish

Ch 23: DAX Concepts (Basics)

- ✓ DAX Concepts: Intro & Realtime Need
- ✓ DAX Columns: Creation, Use
- ✓ DAX Measures: Creation, Use
- ✓ DAX Functions: IIF, ISBLANK
- ✓ SUM, CALCULATE Functions

Ch 24: DAX Quick Measures

- ✓ Quick Measures in Power BI
- ✓ Running Totals
- ✓ Star Rating Calculations
- ✓ DAX Measures in Data View
- ✓ DAX in Cloud Reports

Ch 25: Data Modelling, DAX

- ✓ Dimensions Tables
- ✓ Fact Tables & DAX Measures
- ✓ Data Models & DAX Joins
- ✓ Star & Snowflake Schemas
- ✓ Many-to-Many Relationships
- ✓ Calculation Groups

Ch 26: DAX Joins, Variables

- ✓ CALCULATEX & Variables
- ✓ COUNT, COUNTA, etc..
- ✓ SUM, SUMX, etc..
- ✓ SELECTED MEMBER
- ✓ Filter Context, RETURN

Ch 27: DAX Models & Calculations

- ✓ VAR, SWITCH, SUMMARIZE
- ✓ TREATAS, USERELATIONSHIP
- ✓ CROSSFILTER, GENERATE
- ✓ RANKX, TOPN, WINDOW
- ✓ OFFSET, INDEX

Ch 28: DAX Time Intelligence

- ✓ Need for Time Intelligence

- ✓ Date Table Generation
- ✓ Time Intelligence with DAX
- ✓ PARALLELPERIOD, DATE
- ✓ CALENDAR, Total Functions
- ✓ YTD, QTD, MTD with DAX

Ch 29: DAX - Row Level Security

- ✓ RLS: Row Level Security
- ✓ Data Modelling & Roles
- ✓ Add Cloud Users & KPIs
- ✓ CoPilot with DAX

Ch 30: Analytical Reports

- ✓ Analytical Report Concepts
- ✓ Excel with Power BI Cloud
- ✓ SQL, AVRO, JSON Sources
- ✓ Analyze in Excel
- ✓ Excel Pivot Reports

Ch 31: PL 300 Exam Guidance

- ✓ PL 300 Exam Guidance
- ✓ Exam Samples
- ✓ Exam Scenarios

Realtime Project 2 (Health Care Platform) – For Your Resume

Project Objective

Design and implement a modern Healthcare Data Platform using Power BI Analytics and Reporting services to process patient, hospital, clinical, and operational data for reporting, analytics, and decision-making.

Technologies Used

- ✓ On-Premise SQL Server
- ✓ Azure SQL Database
- ✓ Power BI Service
- ✓ Power Pivot, CoPilot
- ✓ Report Builder

Learning Outcomes

After completing this project, you can confidently showcase experience in:

- Power BI Reporting
- Power BI Service, CoPilot
- Power BI Server
- Azure Synapse with Power BI
- Spark Schemas with Power BI
- Performance Optimization
- End-to-End Azure Data Engineering Solutions

Career Guidance

- ✓ ATS-Friendly Resume
- ✓ Resume Optimization
- ✓ Interview Strategy
- ✓ Job Search Platforms

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Thank You & Best Wishes!

"Your Data Engineering Journey Starts Today!"

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