Complete Practical, Real-time Job Oriented Training

BI Developer Training (Cloud)

Thank you for contacting our **SQL School**. I am **Mr. Sai Phanindra**, trainer for this **Cloud BI Developer** Course. With 20+ 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/

🔥🔥 Detailed Course Content 🔥🔥

Module 1: SQL Server TSQL (MSSQL)

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, 2017 ✓ 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 ✓ Window Functions, Partition ✓ Identify, Remove Duplicates	**Ch 14: Grouping & Cube** ✓ Group By & HAVING ✓ Cube, Rollup & Grouping ✓ Joins with Group By ✓ 3 Table, 4 Table Joins ✓ Query Execution Order	**Ch 15: Self Joins, Excel Analysis** ✓ Self Joins & Self References ✓ UNION, UNION ALL ✓ Sub Queries with Joins ✓ IIF, CASE, EXISTS Statements ✓ Excel Analytics, Pivot Reports
Realtime Case Study: Health-Care Domain		

Module 2: Azure Data Engineer

Module 2: Azure Data Engineer (ETL, DWH)

Part 1: ADF & Synapse

Ch 1: ETL, DWH Introduction ✓ Database Introduction ✓ Data Warehouse (DWH) ✓ Data Engineering Work Flow ✓ Cloud Concepts: IaaS, PaaS ✓ SaaS & Azure Cloud Concepts ✓ Azure Resources & Groups ✓ Storage, ETL, IoT Resources	**Ch 2: Azure Intro, Azure SQL** ✓ Azure SQL Server, SQL DB ✓ Azure SQL Database (OLTP) ✓ Azure SQL Pool (DWH) ✓ Connections from SSMS Tool ✓ Connections from ADS Tool ✓ Pause / Resume SQL Pool ✓ Source Data Configurations	**Ch 3: Azure Synapse (DWH)** ✓ Synapse Pool Architecture ✓ Control Node, Compute Node ✓ DMS & Partitioned Tables ✓ Creating Tables with TSQL ✓ Distributions: RR, Hash, Repl ✓ Big Data Loads with TQL ✓ Important DMFs & DMVs

Ch 4: Azure Data Factory (ADF)	Ch 5: ADF Incremental Loads - 1	Ch 6: ADF Incremental Loads - 2
✓ Need for ADF & Pipelines	✓ File Incremental Loads	✓ Implement SCD with ADF
✓ Linked Services & IRs	✓ Storage Account, Data Lake	✓ Self Hosted IR: Realtime Use
✓ Datasets, Pipelines, Triggers	✓ Binary Copy, Schema Drift	✓ On-premise Data: Incr Loads
✓ Copy Data Activity & CDT	✓ Staging Concept in ADF	✓ Copy Method: Upsert, Keys
✓ Data Loads Pipelines, DTUs	✓ DOCP, Logging & Consistency	✓ Staging & ADF Optimizations
✓ Pipeline Monitoring, Edits	✓ Polybase Concept & Tuning	✓ Pipeline Runs, Activity IDs
Ch 7: ADF Data Flow - 1	**Ch 8: ADF Data Flow - 2**	**Ch 9: ADF Data Flow - 3**
✓ Data Flow Transformations	✓ Working with Multiple Tables	✓ Pivot Transformation
✓ Spark Clusters for Debugging	✓ Join Transform, Broadcast	✓ Group By & Pivot Keys
✓ Optimized Clusters, Preview	✓ Row Filters, Column Filters	✓ Column Pattern, Deduplicate
✓ Conditional Split, SELECT	✓ Surrogate Keys, Derived Cols	✓ Lookup, Cached Lookup
✓ Sort, Union Transformations	✓ ETL Loads Dates, Sink Options	✓ Tuning Transformations
✓ Pipelines with Data Flow	✓ Aggregated Data Loads	✓ Tuning Data Flow, Spark
Ch 10: Synapse Analytics - 1	**Ch 11: Synapse Analytics - 2**	**Ch 12: Synapse Analytics - 3**
✓ Azure Synapse Analytics	✓ Serverless Pools in Synapse	✓ Apache Spark Pool & Usage
✓ Dedicated SQL Pools	✓ TSQL Scripts with Serverless	✓ Synapse Analytics with Pools
✓ TSQL: Stored Procedures	✓ ADLS Data Imports & ELT	✓ PySpark Staging,Aggregations
✓ Synapse Pipelines, Tuning	✓ Synapse Aggregation, Analytics	✓ Spark Queries & Python ETL
✓ SP Activity in Pipelines, Jobs	✓ Synapse Optimizations	✓ Python Notebooks, Pipelines
✓ Comparing ADF & Synapse	✓ Synapse Security & Logins	✓ Integrating Python with DWH
Ch 13: Parameters, SCD & ETL	**Ch 14: CDC @ ETL, ELT & Tuning**	
✓ ADF Templates in Realtime	✓ Using CDC in ADF	
✓ Table Incremental Loads	✓ Control Tables (CT): Upserts	
✓ Control Tables, Watermarks	✓ Handling Inserts, Updates	
✓ Pipeline Parameters, SPs	✓ SCD Type 1 & Type 2	
✓ Dynamic Data Sets, SCD	✓ ADF, Synapse : Limitations	

Module 2: Azure Data Engineer (ETL, DWH)

Part 2: Storage, ADLS & IoT

Ch 1: Azure Intro & Storage	Ch 2: Azure Storage Operations	Ch 3: Azure Storage Security
✓ Storage, ETL, IoT Resources	✓ BLOB Storage: Containers	✓ Realtime use of Keys
✓ Azure Storage Components	✓ Storage Browser, Explorer	✓ Access Keys & Admin Access
✓ Azure Storage Account, HNS	✓ File & Folder Uploads, Edits	✓ SAS Keys Generation, Ips
✓ Azure Data Lake Storage	✓ Azure Tables: Row Key	✓ Creating, Using Entra Users
✓ Azure Storage Explorer Tool	✓ Partition Key, Timestamp	✓ Azure AD Users, Groups
✓ Storage Explorer Config	✓ Use Cases of BLOB Storage	✓ IAM & RBAC with Entra Users
✓ Storage Account Properties	✓ Use Cases of Azure Tables	✓ ACLs and ADLS Security

Ch 4: Azure SQL DB Migrations	Ch 5: Azure Stream Analytics	Ch 6: Azure Key Vaults
✓ On-Premise SQL DB bacpac	✓ Azure IoT Hubs & Devices	✓ Azure Encryptions @ REST
✓ Azure SQL Deployment	✓ APIs with Connection Strings	✓ SMK & CMK Encryptions
✓ Azure Storage from SSMS	✓ Azure Steam Analytic Jobs	✓ Azure Key Vaults & Keys
✓ Azure SQL DB Migration	✓ Inputs, Outputs, SAQL Query	✓ Access Policies
✓ Migration Verifications	✓ LIVE Feed: JSON, AVRO Files	✓ Automated Encryptions
✓ Testing Migrations in SQL	✓ Watermark & LIVE Stats	✓ Realtime Considerations
Ch 7: Azure Metrics & Alerts	**Ch 8: Azure Storage Optimization**	**Ch 9: Azure Pricing, Functions**
✓ Azure Encryptions @ REST	✓ BLOB Types & Content Types	✓ Azure Logic Apps: Usage
✓ Azure Key Vaults & Keys	✓ Hot, Cool, Cold, Archive Types	✓ Log Apps Usage in ETL
✓ SMK & CMK Encryptions	✓ Creating, Using Access Policies	✓ Snapshots, Azure Functions
✓ Azure Metrics: Ingress	✓ Immutable Storage, Rotation	✓ Azure Functions Realtime Use
✓ Egress, E2E Latency Issues	✓ Containerization, Indexing	✓ ETL & DWH with Functions
✓ Performance Tuning Options	✓ Replication: LRS, ZRS, RA-GRS	✓ Azure Resource Pricing

Module 2: Azure Data Engineer (ETL, DWH)

Part 3: Databricks (ETL, DWH)

Ch 1: Databricks Intro	Ch 2: Spark Architecture	Ch 3: DBFS Operations
✓ Azure Introduction	✓ Spark Clusters: Types, Policies	✓ DBFS Concepts: File Store, Tables
✓ Azure Account & Subscription	✓ Driver Node: Purpose, Compute	✓ DBFS File Uploads, Infer Schema
✓ Open Source ETL : Spark	✓ Worker Node: Purpose, Compute	✓ Header Row Promotion
✓ Azure Databricks Resource	✓ Cluster Manager, Executions	✓ Create Table using UI
✓ Databricks Workspace	✓ Resilent Distributed Datasets	✓ HIVE Metastore Catalog
✓ Creating Spark Cluster	✓ DAG: Directed Acyclic Graph	✓ Spark Database & Tables
Ch 4: Notebooks Intro	**Ch 5: Unity Catalog**	**Ch 6: Spark SQL Notebooks**
✓ ETL & ELT Process	✓ Unity Catalog & Big Data Storage	✓ Creating Spark Databases
✓ Workspace Options: Notebooks	✓ Unity Catalog Connectors	✓ Connecting to Spark Databases
✓ Notebooks: SQL, Python, Scala	✓ Catalog Explorer, HIVE Metastore	✓ Creating Spark tables
✓ When to use which Notebooks?	✓ Ubuntu VM : Azure Resource	✓ Data Inserts & DML Operations
✓ Notebook Exports, Imports	✓ Cluster Size & VM Size Options	✓ DDL Operations on Spark Tables
✓ Cloning and Markdown Cells	✓ Default Spark Database, Usage	✓ SQL Notebook: Limitations
Ch 7: Python Introduction	**Ch 8: Python Notebooks**	**Ch 9: Azure SQL Reads**
✓ Python Introduction	✓ DBFS File Source & DataFrames	✓ Azure SQL DB Connections
✓ Python Usage in ETL, DDL, DML	✓ Creating Temp View	✓ Azure SQL Server & DB Names
✓ Dataframes : Purpose	✓ Dataframe Loads to TempView	✓ Connection String & URL Format
✓ Dataframes as Spreadsheets	✓ Data Filters in Temp View	✓ Dataframes @ spark.read.jdbc()
✓ Spark Environment for Python	✓ Data Aggregations in Temp View	✓ Aggregated / Incremental Tfns
✓ PySpark: Python inside Spark	✓ Creating Parquet Tables	✓ Data Loads into Spark Database

Ch 10: Azure SQL Writes ✓ DBFS FileStore into Dataframes ✓ SQL Database Connections ✓ Filters, Aggregations with DBFS ✓ Azure SQL DB Connections ✓ Dataframes To write.jdbc() ✓ Dataframes to Azure SQL DB	**Ch 11: Medallion Architecture** ✓ Medallion Architecture: Scaling ✓ Raw Data with Medallion ✓ Transformations (ETL) ✓ Bronze Layer : Raw Data ✓ Silver Layer with Temp Views ✓ Gold Layer with Spark Tables	**Ch 12: PySpark Transformations** ✓ Custom DataFrames ✓ Single List, Mixed List Options ✓ Concat Function & Index Options ✓ Removing Empty Rows ✓ Replacing Null Values ✓ Merge, Joins, Join Kind
Ch 13: Delta Tables (PySpark) ✓ Delta Tables : Upsert Activity ✓ Creating Delta Tables ✓ DML Operations in Delta Tables ✓ Upsert: Incremental Loads ✓ Delta Tables in HIVE Metastore ✓ MERGE INTO Statement (Spark)	**Ch 14: Python Widgets (PySpark)** ✓ Widgets: Notebook Parameters ✓ dbutils.widgets.text() ✓ dbuitls.widget.get() ✓ Reading Widgets into Variables ✓ Using Variables in Notebook ✓ Aggregated Loads with Widgets	**Ch 15: Workflows (PySpark)** ✓ Python Notebook Schedules ✓ Adding Tasks to Jobs ✓ Job Clusters & Cluster Sizes ✓ High Performance Cluster ✓ Unlimited Clusters ✓ Job Notifications, Verifications
Ch 16: Security ✓ IAM : Creating AD Users, Groups ✓ RBAC Concepts: IAM Roles ✓ Databricks Resource Security ✓ Databricks Workspace Security ✓ Notebook Job Level Security ✓ Job Level Security, Sharing	**Ch 17: Spark Data Analytics** ✓ Access Tokens & API Access ✓ JDBC Connections: Server Host ✓ HTTP Path & Port: Server URL ✓ Power BI Desktop : Get Data ✓ Spark Cluster Connections ✓ Data Access & Test Connection	**Ch 18: Databricks Tuning** ✓ Databricks Tuning: Caching ✓ Job Clusters & Cloud Computing ✓ Photon Acceleration ✓ Spot Instance & Unity Catalog ✓ Auto Scaling & Cluster Nodes ✓ Performance Optimizations
Ch 19: Scala Notebooks - V1 ✓ Scala Notebooks: Realtime Use ✓ JVM and Scala Notebooks ✓ Creating Data Frames in Scala ✓ Creating Temp Tables in Scala ✓ Medallion Architecture ✓ Parquet Tables & Delta Tables	**Ch 20: Scala Notebooks - V2** ✓ Working with Widgets in Scala ✓ Variables and Parameters ✓ Dynamic Connections ✓ Format String (F String) Options ✓ Using SQL DB Connections in Scala ✓ Python Versus Scala in Realtime?	**Databricks Certification Exam** **Fabric Cloud Concepts** **Fabric Cloud Migrations**

- **Realtime Project 1:**
  - Domain: Ecommerce
  - Source: SQL Server Databases, Files (JSON, Parquet)
  - ETL: Pipelines, Data Flow
  - Components: ADF, ADLS, IoT, Logic Apps, more..
  - Good for Resume: Yes
  - CI-CD: DevOps, Git
  - Source: Custom, Real-time
  - Migrations: On-Premises to Azure, Azure to Fabric

- **Realtime Project 2:**
  - Domain: Inventory & Stock
  - Source: SQL Server Databases, Azure SQL DB, IoT
  - ETL: Pipelines, Data Flow, Notebooks

- **Components:** Databricks, ADF, ADLS, Lamdba, Logic Apps, more..
- **Good for Resume:** Yes
- **CI-CD:** Git
- **Source:** Custom, Real-time

Module 3: Power BI with AI, CoPilot Module 3: Power BI

Ch 1: Power BI Intro, Installation ✓ Power BI Eco System ✓ Report Types & Usage ✓ Power BI Tools, Cloud ✓ Power BI Components ✓ Power Query (M), DAX ✓ Power BI: Co-Pilot & AI ✓ Power BI Installations	**Ch 2: Report Design Concepts** ✓ Basic Report Design (PBIX) ✓ Get Data, Canvas (Design) ✓ Data View, Data Models ✓ Data Points, Aggregations ✓ Focus Mode, Spotlight ✓ PDF Exports From Power BI ✓ ToolTip, PBIX Reports	**Ch 3: Visual Interactions, PBIT** ✓ Data View Concepts ✓ Visual Interactions & Edits ✓ Limitations with Visual Edits ✓ Creating Power BI Templates ✓ CSV Exports & PBIT Imports ✓ Optimizing Power BI : Caching ✓ PBIX Versus PBIT
Ch 4: Grouping, Hierarchies ✓ Power BI : Field Values ✓ Field Value Groups ✓ 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 ✓ Integer, Character Slicers ✓ 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 of Data Points
Ch 7: Filters & Drill Thru ✓ Power BI Filters ✓ Basic, Top & Advanced ✓ Visual Filters, Page Filters ✓ Report Level Filters ✓ Clear Filter Options, Resets ✓ Drill Thru Filters & Usage	**Ch 8: Bookmarks, Buttons** ✓ Power BI Bookmarks ✓ Bookmarks Creation, Use ✓ 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 ✓ Storage Modes & Formatting ✓ Azure (Big Data) Access
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 ✓ Power Query Expressions ✓ Table Combine Options ✓ Merge, Union All Options ✓ Close, Apply & Visualize	**Ch 12: Power Query : Table Tfns** ✓ Table Duplicate, Reference ✓ Group By Transformation ✓ Aggregate, Pivot Operation ✓ First Row as Header ✓ Reverse Rows, Count Rows ✓ Advanced Power Query Mode

Ch 13: Power Query: Column Tfn ✓ Any Column Transformations ✓ Change Data Type ✓ Detect Data Type ✓ Rename, Replace, Move ✓ Fill Up, Fil Down ✓ Step Edits & Rollbacks	**Ch 14: Power Query: Text, Date** ✓ String / Text Transformations ✓ Split, Merge, Extract, Format ✓ Numeric and Date Time ✓ Add Column & Expressions ✓ Expressions and New Columns ✓ Column From Examples	**Ch 15: Power Query: Parameters** ✓ Parameters in Power Query ✓ Static Parameters, Defaults ✓ Dynamic Dropdowns, Lists ✓ Linking with Table Queries ✓ Column From Examples ✓ Step Edits, Type Conversions
Ch 16: Power BI Cloud: Publish ✓ Power BI Cloud Concepts ✓ Workspace Creation, Usage ✓ Workspace Items ✓ Report Publish Cloud ✓ Report Edits in Cloud ✓ Semantic Models & Usage	**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 ✓ Cloning in Cloud ✓ QR Codes, Web Publish ✓ Lineage & Metrics
Ch 19: Power BI Cloud Gateways ✓ Data Gateways, Data Refresh ✓ Install, Configure Gateways ✓ Data Sources Configurations ✓ Dataset Configurations ✓ Data Refresh & Scheduling ✓ Gateway Optimizations	**Ch 20: Power BI Cloud Apps** ✓ Power BI Apps: Creation ✓ App Sections & Content ✓ Audience Options ✓ App Security & Sharing ✓ App Updates, Favorites ✓ App URL, End User Access	**Ch 21: Power BI Report Server** ✓ Power BI Report Server ✓ Report Server Vs Cloud ✓ Installation, Configuration ✓ RS Config Tool Options ✓ Report Database, TempDB ✓ Web Service & Server URL
Ch 22: Paginated Reports ✓ Report Builder Tool ✓ Paginated Report (RDL) ✓ SQL Database Access ✓ SQL Queries For RDL ✓ Tablix, Chart Wizards ✓ Fields & Drill-Down ✓ RDL Report Publish	**Ch 23: DAX Concepts (Basics)** ✓ DAX Concepts (Introduction) ✓ DAX : Realtime Use ✓ DAX Columns: Creation, Use ✓ DAX Measures: Creation, Use ✓ DAX Functions: IIF, ISBLANK ✓ SUM, CALCULATE Functions ✓ DAX Cheat Sheet	**Ch 24: DAX Quick Measures** ✓ Quick Measures in Power BI ✓ Average & Filters ✓ Running Totals ✓ Star Rating Calculations ✓ DAX Measures in Data View ✓ DAX in Visuals ✓ DAX in Cloud Reports
Ch 25: Data Modelling, DAX ✓ Dimensions Tables ✓ Fact Tables & DAX Measures ✓ Data Models & Relations ✓ DAX Expressions ✓ Star & Snowflake Schemas ✓ DAX Joins & Expressions	**Ch 26: DAX Joins, Variables** ✓ CALCULATEX & Variables ✓ COUNT, COUNTA, etc.. ✓ SUM, SUMX, etc.. ✓ SELECTED MEMEBER ✓ Filter Context, RETRUN ✓ Dynamic Report with DAX	**Ch 27: 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 28: DAX - Row Level Security	Ch 29: Analytical Reports	Ch 30: Introduction to CoPilot
✓ RLS: Row Level Security ✓ Data Modelling & Roles ✓ Verify Roles (Testing) ✓ Add Cloud Users to Roles ✓ Dynamic Row Level Security ✓ Testing RLS in Power BI	✓ Analytical Report Concepts ✓ Excel Data Analytics ✓ Excel with Power BI Cloud ✓ SQL, AVRO, JSON Sources ✓ Analyze in Excel (Cloud) ✓ Excel Reports to Cloud	✓ AI Components in Power BI ✓ Need for CoPilot ✓ CoPilot Practical Uses ✓ CoPilot with Desktop ✓ CoPilot with Cloud ✓ Need for AI Analytics (Fabric)
Ch 31: Realtime Project – Phase 1	**Ch 32: Realtime Project – Phase 2**	**Ch 33: PL 300 Exam Guidance**
✓ Customer Requirement ✓ Requirement Analysis ✓ Project Planning ✓ Creating Data Sheets ✓ Creating Data Models ✓ Scope of the Project ✓ Data Sheets, Project Planning	✓ Report Design & Modelling ✓ Power Query Implementation ✓ DAX & Data Analytics ✓ Power BI Cloud (Service) ✓ Power BI Report Server ✓ End User Take Aways ✓ Implementation Phases	✓ PL 300 Exam Benefits ✓ Data Analyst Exam Pattern ✓ Type of Questions ✓ Sample Questions, Answers ✓ Mock Certification ✓ Resume Guidance ✓ Mock Interviews

➢ **Realtime Project 3:**

- **Domain:** ERP Data (Financials)
- **Source:** SQL Server Databases, AVRO & JSON Files
- **ETL:** Power Query
- **Analytics:** DAX, Excel
- **Tools:** Power BI Desktop, Desktop RS, Report Builder
- **Good for Resume:** Yes
- **CI-CD:** DevOps, Git
- **Source:** Custom, Real-time
- **Migrations:** On-Premises to Azure, Azure to Fabric

We DO NOT source the projects from online (google, git, etc). These are TRUE Realtime Projects with few customizations to suit your resume and job needs !!

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✓ **Thank you for your time, wish you all the very best !!**