



Complete Practical, Real-time Job Oriented Training

Databricks Data Engineering

Thank you for contacting our **SQL School**. I am **Mr. Sai Phanindra**, trainer for this **Azure Data Engineer with 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/](https://www.linkedin.com/in/saiphanindra/)

Databricks Data Engineer Training:

- **Module 1: MSSQL & TSQL**
3 Weeks; 1 Realtime Project
- **Module 2: Python Analytics**
4 Weeks; 1 Realtime Project
- **Module 3: Databricks**
3 Weeks; 1 Realtime Project

- 👉 100% Practical
- 👉 Scenario Based
- 👉 1:1 Mentorship
- 👉 Real-time Projects

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Databricks Engineering Training Plans:

	Training Module	Applicable for	Duration
Plan A	1. Databricks Data Engineering	Data Engineers	3 Weeks
Plan B	1. MSSQL, TSQL Queries 2. Databricks Data Engineering	Data Analysts, Data Engineers, Developers	4.5 Weeks
Plan C	1. MSSQL, TSQL Queries 2. Python (ETL, Analytics) 3. Databricks Data Engineering	Database Developers, Azure SQL Developers	7 Weeks

🔥 🔥 Detailed Course Content 🔥 🔥

Module 1: SQL Server TSQL (MSSQL) Queries

Ch 1: Database Intro & Job Roles <ul style="list-style-type: none"> ✓ Database Introduction ✓ Database Types: OLTP, DWH ✓ DBMS & Realtime Use ✓ DBMS Software & Purpose ✓ SQL: Purpose & Use ✓ SQL Server Versions, Editions ✓ Microsoft SQL Job Roles 	Ch 2: SQL Server Installations <ul style="list-style-type: none"> ✓ SQL Server 2022 Installations ✓ SQL Server 2019 Installations ✓ SSMS Tool Installation ✓ Server Connections, Properties ✓ Instance & Instance Types ✓ Authentication Types ✓ System Databases & Purpose 	Ch 3: SQL Basics V1 (Commands) <ul style="list-style-type: none"> ✓ Database, Tables & Columns ✓ SQL Basics: Purpose ✓ DDL Statements ✓ DML Statements ✓ DQL Statements ✓ Verifications @ GUI ✓ Basic SELECT Queries
Ch 4: SQL Basics V2 (Operators) <ul style="list-style-type: none"> ✓ DDL Variants in MSSQL ✓ DML Variants in MSSQL ✓ INSERT & INSERT INTO ✓ SELECT & SELECT INTO ✓ Basic Operators in SQL ✓ Special Operators in MSSQL ✓ ALTER, TRUNCATE, DROP 	Ch 5: Excel Data Imports <ul style="list-style-type: none"> ✓ Data Imports with Excel ✓ SQL Native Client ✓ Order By: Asc, Desc ✓ Order By with WHERE ✓ TOP & OFFSET ✓ UNION ALL ✓ UNION, Data Appends 	Ch 6: Schemas & Security <ul style="list-style-type: none"> ✓ Schemas: Creation, Usage ✓ Schemas & Table Grouping ✓ Using Default Schema ✓ Real-world Banking Database ✓ Table Migrations @ Schemas ✓ 2 Part, 3 Part & 4 Part Naming ✓ Verifying Schemas in UI
Ch 7: Constraints & Keys Basics <ul style="list-style-type: none"> ✓ Need for Constraints, Keys ✓ Null, Not Null Constraints ✓ Unique Key Constraint ✓ Primary Key Constraint ✓ Foreign Key & References ✓ Default Constraint & Usage ✓ DB Diagrams & ER Models 	Ch 8: Indexes Basics, Tuning <ul style="list-style-type: none"> ✓ Indexes & Tuning ✓ Clustered Index, Primary Key ✓ Non Clustered Index & Unique ✓ Creating Indexes Manually ✓ Verifying Indexes ✓ Composite Keys, Query Optimizer ✓ Composite Indexes & Usage 	Ch 9: Joins & Audits <ul style="list-style-type: none"> ✓ Joins: Table Comparisons ✓ Inner Joins & Matching Data ✓ Outer Joins: LEFT, RIGHT ✓ Full Outer Joins & Audits ✓ Cross Join & Table Combination ✓ Joining more than 2 tables ✓ Joining Tables with Aliases
Ch 10: Views & RLS <ul style="list-style-type: none"> ✓ Views: Realtime Usage ✓ Storing SELECT in Views ✓ DML, SELECT with Views ✓ RLS: Row Level Security ✓ WITH CHECK OPTION ✓ Database Audits & Metadata ✓ Important System Views 	Ch 11: Stored Procedures <ul style="list-style-type: none"> ✓ Stored Procedures: Realtime Use ✓ Parameters Concept with SPs ✓ Procedures with SELECT ✓ System Stored Procedures ✓ Metadata Access with SPs ✓ SP Recompilations ✓ Stored Procedures, Tuning 	Ch 12: User Defined Functions <ul style="list-style-type: none"> ✓ Using Functions in MSSQL ✓ Scalar Value Functions ✓ Inline & Multiline Functions ✓ Parameterized Queries ✓ Date & Time Functions ✓ String Functions & Queries ✓ Aggregated Functions & Usage

Ch 13: Triggers & Automations <ul style="list-style-type: none"> ✓ Need for Triggers ✓ DDL & DML Triggers ✓ For / After Triggers ✓ Instead Of Triggers ✓ Memory Tables with Triggers ✓ Data Replication, Automation ✓ Disabling DMLs & Triggers 	Ch 14: Transactions & ACID <ul style="list-style-type: none"> ✓ Transaction Concepts in OLTP ✓ Transaction Types in Realtime ✓ Auto Commit, Explicit Transaction ✓ COMMIT, ROLLBACK ✓ Checkpoint & Logging ✓ Lock Hints & Query Blocking ✓ READPAST, LOCKHINT 	Ch 15: Cursors & Fetch <ul style="list-style-type: none"> ✓ Cursors: Realtime Usage ✓ Cursor Declaration Types ✓ Open Cursor, Close Cursor ✓ Local & Global Cursors ✓ Scroll & Forward Only Cursors ✓ Static & Dynamic Cursors ✓ Fetch, Absolute Cursors
Ch 16: CTEs & Tuning <ul style="list-style-type: none"> ✓ Common Table Expression ✓ Creating and Using CTEs ✓ CTEs, In-Memory Processing ✓ Using CTEs for DML Operations ✓ Using CTEs for Data Retrieval ✓ Using CTEs for Tuning ✓ CTEs: Duplicate Row Deletion 	Ch 17: Relations, Normal Forms <ul style="list-style-type: none"> ✓ Adding PK to Tables ✓ Adding FK to Tables ✓ Cascading Keys ✓ Self Referencing Keys ✓ Database Diagrams ✓ Normal Forms: 1 NF, 2 NF ✓ 3 NF, BCNF and 4 NF 	Ch 18: Self Joins, EXISTS <ul style="list-style-type: none"> ✓ Joining same table ✓ Correlated Queries ✓ Joining Tables, Queries ✓ Self Joins with WHERE ✓ Self Joins with UNION ✓ Self Joins with Order By ✓ Self Joins with Views
Ch 19: Remote Joins <ul style="list-style-type: none"> ✓ Working with Multiple Servers ✓ Multi Server Access from SSMS ✓ Linked Servers Creation, Tests ✓ 4 Part Naming Convention ✓ Remote Data Access ✓ RPC & RPC OUT Remote Joins & Data Analysis	Ch 20: Sub Queries <ul style="list-style-type: none"> ✓ Sub Queries Concept ✓ Sub Queries & Aggregations ✓ Joins with Sub Queries ✓ Sub Queries with Aliases ✓ Sub Queries with Order By ✓ Sub Queries with WHERE ✓ Sub Queries, Joins, Where 	Ch 21: Group By Queries <ul style="list-style-type: none"> ✓ Group By, Distinct Keywords ✓ GROUP BY, HAVING ✓ Cube() and Rollup() ✓ Sub Totals & Grand Totals ✓ Grouping() & Usage ✓ Group By with UNION ✓ Group By with UNION ALL
Ch 22: Joins with Group By <ul style="list-style-type: none"> ✓ Joins with Group By ✓ 3 Table, 4 Table Joins ✓ Join Queries with Aliases ✓ Join Queries & WHERE ✓ Join Queries & Group By ✓ Joins with Sub Queries ✓ Query Execution Order 	Ch 23: Data Types & Conversions <ul style="list-style-type: none"> ✓ Integer Data Types ✓ Character, MAX Data Types ✓ Decimal & Money Data Types ✓ Boolean & Binary Data Types ✓ Date and Time Data Types ✓ Table, SQL_Variant Types ✓ Cast() and Convert() Functions 	Ch 24: Window Functions, CASE <ul style="list-style-type: none"> ✓ IIF Function and Usage ✓ IIF with Tables, Joins ✓ CASE Statement Usage ✓ Window Functions (Rank) ✓ Row_Number() ✓ Rank(), DenseRank() ✓ Partition By & Order By
Mini Project (Can be used in Resume)		

Module 2: Python Analytics

Ch 25: Python Introduction <ul style="list-style-type: none"> ✓ Need for Data Analytics ✓ Python in Data Analysis ✓ History of Python ✓ Python Versions ✓ Python Implementations ✓ Python Installations ✓ Python IDE & Usage ✓ Jupyter Notebooks 	Ch 26: Python Basics, Architecture <ul style="list-style-type: none"> ✓ Python Scripting Options ✓ Basic Operations in Python ✓ Python Scripts, Print() ✓ Single, Multiline Statements ✓ Adding Cells, Saving Notebook ✓ Single, Multi Line Comments ✓ Python: Internal Architecture ✓ Compiler Versus Interpreter 	Ch 27: Data Types & Variables <ul style="list-style-type: none"> ✓ Integer / Int Data Types ✓ Float & String Data Types ✓ Boolean, Binary Types ✓ Sequence Types: List, Tuple ✓ Range, Complex & memview ✓ Retrieving Data Type: type() ✓ Multi Assignments & Casting ✓ Unpack Collection, Outputs
Ch 28: Python Operators <ul style="list-style-type: none"> ✓ Arithmetic, Assignment Ops ✓ Comparison Operators ✓ Logical, Identity Operators ✓ Member, Bitwise Operators ✓ Operator Precedence ✓ If ... Else Statement, Pass ✓ Short Hand If, OR, AND ✓ ELIF and ELSE IF Statements ✓ Expressions, Ternary OPs 	Ch 29: Python Loops, Iterations <ul style="list-style-type: none"> ✓ Python Loop & Realtime Use ✓ Python While Loop Statement ✓ Break and Continue Statement ✓ Using Print with While() ✓ Iterations & Conditions ✓ Exit Conditions & For Loops ✓ Break, Continue & Range ✓ __iter__() and __next__() ✓ iter() and Looping Options 	Ch 30: Python Collections <ul style="list-style-type: none"> ✓ Python Collections (Arrays) ✓ list() Constructor, print() ✓ Python Tuples, Tuple Items ✓ tuple() Constructor, Usage ✓ Python Sets : Syntax Rules ✓ Duplicates, Types, Ordered ✓ Python Dictionaries: Usage ✓ Changeable, Ordered Data ✓ Dictionary Construct, type()
Ch 31: Python Functions <ul style="list-style-type: none"> ✓ Python Functions & Usage ✓ Function Parameters ✓ Arguments, **kwargs ✓ Default & List Parameters ✓ Python Lambda Functions ✓ Anonymous Functions ✓ Recursive Functions, Usage ✓ Return & Print @ Lambda 	Ch 32: Python Classes & Arrays <ul style="list-style-type: none"> ✓ Python Classes & Objects ✓ __init__() Function ✓ __str__() Function ✓ Self Parameters & Objects ✓ Python Inheritance & Classes ✓ Parent & Child Classes ✓ __init__() & super() Function ✓ Polymorphism in Python 	Ch 33: Python Modules <ul style="list-style-type: none"> ✓ import Python Modules ✓ Variables in Modules ✓ Built In Modules & dir ✓ datetime module in Python ✓ Date Objections Creation ✓ strftime Method & Usage ✓ imports & datetime.now() ✓ Using Python Constructors
Ch 34: Python JSON & RegEx <ul style="list-style-type: none"> ✓ JSON Concepts, Usage ✓ Dictionary & import json ✓ Python Objects into JSON ✓ Formatting & Ordering ✓ json.dumps, print options ✓ Python Regular Expressions ✓ RegEx Module & Functions ✓ search() & span() , Strings ✓ Using RegEx with JSON 	Ch 35: Python User Inputs & TRY <ul style="list-style-type: none"> ✓ Try Except, Exception Handling ✓ NameError Resolution ✓ Python Finally Block, Usage ✓ Raise an exception method ✓ TypeError, Scripting in Python ✓ Python User Inputs ✓ Python Index Numbers ✓ Named Indexes, Usage ✓ input() & raw_input() 	Ch 36: Python File Handling <ul style="list-style-type: none"> ✓ File Handling, Activities ✓ r, a, w, x modes ✓ t, b Operations ✓ Read Only Parts ✓ Loop, Write, Close Files ✓ Appending, Overwriting ✓ import os, path.exists ✓ f.open, f.write ✓ f.read, f.close

Ch 37: Data Analytics - Pandas <ul style="list-style-type: none"> ✓ Python Modules & Pandas ✓ Pandas Codebase & Usage ✓ Installation of Pandas ✓ import pandas.DataFrame ✓ Checking Pandas Version ✓ Pandas Series, arrays ✓ Labels : Creation, Use ✓ series(), print() 	Ch 38: Data Analytics - DataFrames <ul style="list-style-type: none"> ✓ Indexes & Named Options ✓ Locate Row and Load Rows ✓ Row Index & Index Lists ✓ Load Files Into a DataFrame ✓ pd.read_csv() Function ✓ pd.options.display.max_rows ✓ df.to_string() Function ✓ tail() & null() Function 	Ch 39: Data Analytics - Pandas <ul style="list-style-type: none"> ✓ Pandas - Cleaning Data ✓ Replace, Transform Columns ✓ Data Discovery & Column Fill ✓ Identify & Remove Duplicates ✓ dropna(), fillna() Functions ✓ Pandas - Data Correlations ✓ Good & Bad Correlation ✓ Data Plotting & matplotlib Lib
Ch 40: SQL DB & Python - 1 <ul style="list-style-type: none"> ✓ SQL & Databases ✓ Azure Data Studio Tool ✓ sp_execute_external_script ✓ Input Data & Result Sets ✓ DDL & DML with Python ✓ SQL_out, SQL_in ✓ Variables & Parameters ✓ Versions, Package List ✓ WITH RESULT SETS Options 	Ch 41: SQL & Python - 2 <ul style="list-style-type: none"> ✓ pandas.Series with SQL DBs ✓ Indexing Methods in Realtime ✓ Convert series to data frame ✓ Output values into data.frame ✓ pymssql package in SQL Server ✓ pip list & Package Manager ✓ Python runtime, Py Package ✓ pymssql.connect & Usage ✓ Cursor Variables & Usage 	Ch 42: Realtime Project

Module 3: Databricks (ETL, DWH)

Ch 43: Databricks Intro <ul style="list-style-type: none"> ✓ Azure Introduction ✓ Azure Account & Subscription ✓ Open Source ETL : Spark ✓ Azure Databricks Resource ✓ Databricks Workspace ✓ Creating Spark Cluster 	Ch 44: Spark Architecture <ul style="list-style-type: none"> ✓ Spark Clusters: Types, Policies ✓ Driver Node: Purpose, Compute ✓ Worker Node: Purpose, Compute ✓ Cluster Manager, Executions ✓ Resilient Distributed Datasets ✓ DAG: Directed Acyclic Graph 	Ch 45: DBFS Operations <ul style="list-style-type: none"> ✓ DBFS Concepts: File Store, Tables ✓ DBFS File Uploads, Infer Schema ✓ Header Row Promotion ✓ Create Table using UI ✓ HIVE Metastore Catalog ✓ Spark Database & Tables
Ch 46: Notebooks Intro <ul style="list-style-type: none"> ✓ ETL & ELT Process ✓ Workspace Options: Notebooks ✓ Notebooks: SQL, Python, Scala ✓ When to use which Notebooks? ✓ Notebook Exports, Imports ✓ Cloning and Markdown Cells 	Ch 47: Unity Catalog <ul style="list-style-type: none"> ✓ Unity Catalog & Big Data Storage ✓ Unity Catalog Connectors ✓ Catalog Explorer, HIVE Metastore ✓ Ubuntu VM : Azure Resource ✓ Cluster Size & VM Size Options ✓ Default Spark Database, Usage 	Ch 48: Spark SQL Notebooks <ul style="list-style-type: none"> ✓ Creating Spark Databases ✓ Connecting to Spark Databases ✓ Creating Spark tables ✓ Data Inserts & DML Operations ✓ DDL Operations on Spark Tables ✓ SQL Notebook: Limitations

Ch 49: Python Introduction <ul style="list-style-type: none"> ✓ Python Introduction ✓ Python Usage in ETL, DDL, DML ✓ Dataframes : Purpose ✓ Dataframes as Spreadsheets ✓ Spark Environment for Python ✓ PySpark = Python inside Spark 	Ch 50: Python Notebooks <ul style="list-style-type: none"> ✓ DBFS File Source & DataFrames ✓ Creating Temp View ✓ Dataframe Loads to TempView ✓ Data Filters in Temp View ✓ Data Aggregations in Temp View ✓ Creating Parquet Tables 	Ch 51: Azure SQL Reads <ul style="list-style-type: none"> ✓ Azure SQL DB Connections ✓ Azure SQL Server & DB Names ✓ Connection String & URL Format ✓ Dataframes @ spark.read.jdbc() ✓ Aggregated / Incremental Tfns ✓ Data Loads into Spark Database
Ch 51: Azure SQL Writes <ul style="list-style-type: none"> ✓ 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 52: Medallion Architecture <ul style="list-style-type: none"> ✓ Medallion Architecture: Scaling ✓ Raw Data with Medallion ✓ Transformations (ETL) ✓ Bronze Layer : Raw Data ✓ Silver Layer with Temp Views ✓ Gold Layer with Spark Tables 	Ch 53: PySpark Transformations <ul style="list-style-type: none"> ✓ Custom DataFrames ✓ Single List, Mixed List Options ✓ Concat Function & Index Options ✓ Removing Empty Rows ✓ Replacing Null Values ✓ Merge, Joins, Join Kind
Ch 54: Delta Tables (PySpark) <ul style="list-style-type: none"> ✓ 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 55: Python Widgets (PySpark) <ul style="list-style-type: none"> ✓ Widgets: Notebook Parameters ✓ dbutils.widgets.text() ✓ dbutils.widget.get() ✓ Reading Widgets into Variables ✓ Using Variables in Notebook ✓ Aggregated Loads with Widgets 	Ch 56: Workflows (PySpark) <ul style="list-style-type: none"> ✓ Python Notebook Schedules ✓ Adding Tasks to Jobs ✓ Job Clusters & Cluster Sizes ✓ High Performance Cluster ✓ Unlimited Clusters ✓ Job Notifications, Verifications
Ch 57: Security <ul style="list-style-type: none"> ✓ IAM : Creating AD Users, Groups ✓ RBAC Concepts: IAM Roles ✓ Databricks Resource Security ✓ Databricks Workspace Security ✓ Notebook Job Level Security ✓ Job Level Security, Sharing 	Ch 58: Spark Data Analytics <ul style="list-style-type: none"> ✓ 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 59: Databricks Tuning <ul style="list-style-type: none"> ✓ Databricks Tuning: Caching ✓ Job Clusters & Cloud Computing ✓ Photon Acceleration ✓ Spot Instance & Unity Catalog ✓ Auto Scaling & Cluster Nodes ✓ Performance Optimizations
Ch 60: Scala Notebooks - V1 <ul style="list-style-type: none"> ✓ 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 61: Scala Notebooks - V2 <ul style="list-style-type: none"> ✓ 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? 	Realtime Project For Resume

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