

SQL School™

Quality Training Assured

Complete Practical; Real-time Job Oriented Training

Power BI Training

Includes Cloud, Big Data Analytics, AI & Copilot

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 step by step Power BI course. My Profile @ [linkedin.com/in/saiphanindra/](https://www.linkedin.com/in/saiphanindra/)

<p>Basic to Advanced Power BI training with step by step examples including:</p> <ol style="list-style-type: none"> 1. 7 Design Tools 2. Two Technologies (Power Query, DAX) 3. Two Hosting Platforms (Cloud, Server) 4. AI & CoPilot Components 5. One Realtime Project. <p>This course is very helpful for:</p> <ol style="list-style-type: none"> 1. Data Analysts 2. Data Engineers 3. Data Scientists 4. Business Analysts 5. Business Intelligence Developers 	 <p>100% Real-Time, Job Oriented Trainings</p> <ul style="list-style-type: none"> • Report Concepts • PBIX Visualizations • Big Data Sources • 50+ Power Query Ex • 50+ DAX Examples • Data Models, RLS • Dashboards, Apps • Report Server, RDL • Copilot & Azure DB • Report Service • PL 300 Guidance <p>New Batch every 15 days</p> <ul style="list-style-type: none"> ✓ Step by Step ✓ Scenario Based ✓ Realtime Project ✓ LIVE Class Videos   <p>Trainer: Mr. Sai Phanindra linkedin.com/in/saiphanindra</p> <p>www.sqlschool.com Ph : +91 9666 44 0801</p>
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Power BI - Training Options (Plans)

	Inclusions	Duration	Applicable Job Roles
Plan A	Module 1: Power BI	4 Weeks	BI Developer
Plan B	Module 1: MSSQL, TSQL Queries Module 2: Power BI	7 Weeks	BI Developer
Plan C	Module 1: MSSQL, TSQL Queries Module 2: Power BI Module 3: Python Analytics	11 Weeks	Data Analyst, BI Developer

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Module 1: SQL Server TSQL (MSSQL)

<p>Ch 1: Introduction</p> <ul style="list-style-type: none"> ✓ Database Introduction ✓ Types of Databases ✓ Need for & ETL, DWH ✓ BI Implementations ✓ SQL Server Advantages ✓ Version, Editions of MSSQL ✓ Data Engineering Job Roles 	<p>Ch 2: Installations</p> <ul style="list-style-type: none"> ✓ SQL Server 2019, 2017 ✓ SSMS Tools Installation ✓ Database Engine (OLTP) ✓ SCM, Configuration Tools ✓ Instance Types, Uses ✓ Authentication Modes ✓ Collation, File Stream 	<p>Ch 3: SQL Basics - 1</p> <ul style="list-style-type: none"> ✓ 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
<p>Ch 4: SQL Basics - 2</p> <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, ADD, TRUNCATE, DROP 	<p>Ch 5: Data Imports, Schemas</p> <ul style="list-style-type: none"> ✓ 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 	<p>Ch 6: Constraints, Index Basics</p> <ul style="list-style-type: none"> ✓ 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
<p>Ch 7: Joins & Views Basics</p> <ul style="list-style-type: none"> ✓ 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 	<p>Ch 8: Functions(UDF), Data Types</p> <ul style="list-style-type: none"> ✓ 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 	<p>Ch 9: Stored Procedures, Models</p> <ul style="list-style-type: none"> ✓ Stored Procedures & Usage ✓ Creating, Testing Procedures ✓ Encryption, Deferred Names ✓ SPs for Validations, Analysis ✓ System SPs, Recompilation ✓ Normal Forms & Types ✓ Data Models, Self-References
<p>Ch 10: Triggers, Temp Tables</p> <ul style="list-style-type: none"> ✓ Need for Triggers ✓ DDL & DML Triggers ✓ Using Memory Tables ✓ Data Replication, Automation ✓ Local & Global Temp Tables ✓ Testing & Using Temp Tables ✓ SELECT .. INTO & Bulk Loads 	<p>Ch 11: DB Architecture, Locks</p> <ul style="list-style-type: none"> ✓ 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 	<p>Ch 12: Cursors & CTEs, Links</p> <ul style="list-style-type: none"> ✓ 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
<p>Ch 13: Merge, Upsert & Rank</p> <ul style="list-style-type: none"> ✓ Need for Merge in ETL ✓ Incremental Loads with SQL ✓ MERGE and RANK Functions ✓ Window Functions, Partition ✓ Identify, Remove Duplicates 	<p>Ch 14: Grouping & Cube</p> <ul style="list-style-type: none"> ✓ Group By & HAVING ✓ Cube, Rollup & Grouping ✓ Joins with Group By ✓ 3 Table, 4 Table Joins ✓ Query Execution Order 	<p>Ch 15: Self Joins, Excel Analysis</p> <ul style="list-style-type: none"> ✓ Self Joins & Self References ✓ UNION, UNION ALL ✓ Sub Queries with Joins ✓ IIF, CASE, EXISTS Statements ✓ Excel Analytics, Pivot Reports
<p>Realtime Case Study: Health-Care Domain</p>		

Module 2: Power BI

<p>Ch 1: Power BI Introduction</p> <ul style="list-style-type: none"> ✓ Reporting Basics & Types ✓ Interactive, Analytical Reports ✓ Paginated Reports (RDL) ✓ Power BI Eco System ✓ Power BI Tools, Service, Server ✓ Need for Power Query (M) ✓ Need for DAX & Cloud 	<p>Ch 2: Power BI Basic Reports</p> <ul style="list-style-type: none"> ✓ Power BI Desktop Installation ✓ Basic Report Design (PBIX) ✓ Data View, Data Models ✓ Data Points, Aggregations ✓ Focus Mode, Spotlight, Exports ✓ ToolTip, PBIX and PBIT ✓ Visual Interactions & Edits 	<p>Ch 3: Grouping, Hierarchies</p> <ul style="list-style-type: none"> ✓ Creating Groups in Power BI ✓ Groups : Creation & Usage ✓ Group Edits Options ✓ Bins & Bin Size, Bin Count ✓ Hierarchies: Creation, Use ✓ Drill Down, Drill Up ✓ Conditional Drill Down
<p>Ch 4: Visual Sync, Filters</p> <ul style="list-style-type: none"> ✓ Slicer & Single Select ✓ Multi Select Options ✓ Integer, Character Slicers ✓ Visual Sync with Slicers ✓ Filters: Visual, Page, Report ✓ Drill Thru Filters & Usage ✓ Basic, Top & Advanced ✓ Clear Filter Options, Resets 	<p>Ch 5: Bookmarks, Big Data Access</p> <ul style="list-style-type: none"> ✓ Bookmarks Creation & Usage ✓ Visual Interactions, Bookmarks ✓ Images : Actions, Bookmarks ✓ Big Data Access with Power BI ✓ Storage Modes: Direct Query ✓ Import & Performance Impact ✓ Formatting & Data Refresh ✓ Summary & Date Time Formats 	<p>Ch 6: Power BI Visualizations</p> <ul style="list-style-type: none"> ✓ Chart and Bar Visuals ✓ Line and Area Charts ✓ Maps, TreeMaps, HeatMaps ✓ Funnel, Card, Multrow Card ✓ PieCharts & Settings ✓ Waterfall, Sentiment Colors ✓ Scatter Chart, Play Axis ✓ Infographics, Classifications
<p>Ch 7: Power Query Level 1</p> <ul style="list-style-type: none"> ✓ Power Query (Mashup) ✓ ETL Transformations in PBI ✓ Power Query Expressions ✓ Table Combine Options ✓ Merge, Union All Options ✓ Table Transformations 	<p>Ch 8: Power Query Level 2</p> <ul style="list-style-type: none"> ✓ Any Column Transformations ✓ String / Text Transformations ✓ Numeric Analytics & Mashup ✓ Date Time Transformations ✓ Add Column Transformations ✓ Expressions and New Columns 	<p>Ch 9: Power Query Level 3</p> <ul style="list-style-type: none"> ✓ Parameters in Power Query ✓ Static Parameters, Defaults ✓ Dynamic Dropdowns, Lists ✓ Linking with Table Queries ✓ Column From Examples ✓ Step Edits, Type Conversions
<p>Ch 10: Power BI Cloud - 1</p> <ul style="list-style-type: none"> ✓ Power BI Cloud Concepts ✓ Workspace Creation, Usage ✓ Report Publish & Edits ✓ Semantic Models in Realtime ✓ Dashboard Creation, Usage ✓ Clone, Share, Subscribe ✓ Q&A, Lineage, Settings 	<p>Ch 11: Power BI Cloud - 2</p> <ul style="list-style-type: none"> ✓ Data Gateways, Data Refresh ✓ Data Source Configurations ✓ Data Refresh & Scheduling ✓ Gateway Optimizations ✓ Semantic Model Optimizations ✓ Report Optimizations ✓ Dashboard Optimizations 	<p>Ch 12: Power BI Cloud - 3</p> <ul style="list-style-type: none"> ✓ Power BI Apps, Shares ✓ App Sections & Options ✓ App Updates, Security ✓ Excel Analytics ✓ Data Explorer Options ✓ Sharing, Subscriptions ✓ Alerts, Metrics, Insights

Ch 13: Report Server & RDL <ul style="list-style-type: none"> ✓ Power BI Report Server ✓ SQL Server DB Engine ✓ Report Database, TempDB ✓ Web Service & Server URL ✓ Paginated Reports (RDL) ✓ Report Builder Tool Usage 	Ch 14: DAX Level 1 <ul style="list-style-type: none"> ✓ DAX : Purpose, Realtime Use ✓ DAX Calculations Creation, Use ✓ DAX Measures Creation, Use ✓ DAX Functions: IIF, ISBLANK ✓ SUM, CALCULATE Functions ✓ DAX Cheat Sheet: Examples 	Ch 15: DAX Level 2 <ul style="list-style-type: none"> ✓ Quick Measures in Power BI ✓ Running Totals, Filters ✓ Star Rating Calculations ✓ Data Models & DAX ✓ Star & Snowflake Schemas ✓ Dimensions, Fact Tables
Ch 16: DAX Level 3 <ul style="list-style-type: none"> ✓ DAX Expressions & Joins ✓ DAX Variables, Usage ✓ Dynamic Report with DAX ✓ SELECTED MEMEBER ✓ Time Intelligence with DAX ✓ PARALLELPERIOD, DATE 	Ch 17: AI & CoPilot with Power BI <ul style="list-style-type: none"> ✓ CoPilot with Visuals ✓ CoPilot with DAX ✓ Automated DAX Visuals ✓ CoPilot with Power BI Cloud ✓ Project Requirement Spec ✓ Report Design & Modelling 	Ch 18: Realtime Project Phase 2 <ul style="list-style-type: none"> ✓ Complete Project Solution ✓ Project FAQs, Key Roles ✓ Real-world Considerations ✓ Power BI Admin Concepts ✓ Resume Points, FAQs ✓ PL 300 Exam Guidance

Module 3: Python Analytics

Ch 19: 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 20: 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 21: 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 22: 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 23: 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 24: 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()

<p>Ch 25: Python Functions</p> <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 	<p>Ch 26: Python Classes & Arrays</p> <ul style="list-style-type: none"> ✓ Python Classes & Objects ✓ <code>__init__()</code> Function ✓ <code>__str__()</code> Function ✓ Self Parameters & Objects ✓ Python Inheritance & Classes ✓ Parent & Child Classes ✓ <code>__init__()</code> & <code>super()</code> Function ✓ Polymorphism in Python 	<p>Ch 27: Python Modules</p> <ul style="list-style-type: none"> ✓ import Python Modules ✓ Variables in Modules ✓ Built In Modules & <code>dir</code> ✓ <code>datetime</code> module in Python ✓ Date Objections Creation ✓ <code>strftime</code> Method & Usage ✓ <code>imports</code> & <code>datetime.now()</code> ✓ Using Python Constructors
<p>Ch 28: Python JSON & RegEx</p> <ul style="list-style-type: none"> ✓ JSON Concepts, Usage ✓ Dictionary & <code>import json</code> ✓ Python Objects into JSON ✓ Formatting & Ordering ✓ <code>json.dumps</code>, print options ✓ Python Regular Expressions ✓ RegEx Module & Functions ✓ <code>search()</code> & <code>span()</code> , Strings ✓ Using RegEx with JSON 	<p>Ch 29: Python User Inputs & TRY</p> <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 ✓ <code>input()</code> & <code>raw_input()</code> 	<p>Ch 30: Python File Handling</p> <ul style="list-style-type: none"> ✓ File Handling, Activities ✓ <code>r</code>, <code>a</code>, <code>w</code>, <code>x</code> modes ✓ <code>t</code>, <code>b</code> Operations ✓ Read Only Parts ✓ Loop, Write, Close Files ✓ Appending, Overwriting ✓ <code>import os</code>, <code>path.exists</code> ✓ <code>f.open</code>, <code>f.write</code> ✓ <code>f.read</code>, <code>f.close</code>
<p>Ch 31: Data Analytics - Pandas</p> <ul style="list-style-type: none"> ✓ Python Modules & Pandas ✓ Pandas Codebase & Usage ✓ Installation of Pandas ✓ <code>import pandas.DataFrame</code> ✓ Checking Pandas Version ✓ Pandas Series, arrays ✓ Labels : Creation, Use ✓ <code>series()</code>, <code>print()</code> 	<p>Ch 32: Data Analytics - DataFrames</p> <ul style="list-style-type: none"> ✓ Indexes & Named Options ✓ Locate Row and Load Rows ✓ Row Index & Index Lists ✓ Load Files Into a DataFrame ✓ <code>pd.read_csv()</code> Function ✓ <code>pd.options.display.max_rows</code> ✓ <code>df.to_string()</code> Function ✓ <code>tail()</code> & <code>null()</code> Function 	<p>Ch 33: Data Analytics - Pandas</p> <ul style="list-style-type: none"> ✓ Pandas - Cleaning Data ✓ Replace, Transform Columns ✓ Data Discovery & Column Fill ✓ Identify & Remove Duplicates ✓ <code>dropna()</code>, <code>fillna()</code> Functions ✓ Pandas - Data Correlations ✓ Good & Bad Correlation ✓ Data Plotting & <code>matlib</code> Lib
<p>Ch 34: SQL Server & Python - 1</p> <ul style="list-style-type: none"> ✓ SQL Server DB Engine ✓ Azure Data Studio Tool ✓ <code>sp_execute_external_script</code> ✓ Input Data & Result Sets ✓ DDL & DML with Python ✓ <code>SQL_out</code>, <code>SQL_in</code> ✓ Variables & Parameters ✓ Versions, Package List ✓ WITH RESULT SETS Options 	<p>Ch 35: SQL Server & Python - 2</p> <ul style="list-style-type: none"> ✓ <code>pandas.Series</code> with SQL Server ✓ Indexing Methods in Realtime ✓ Convert series to data frame ✓ Output values into data.frame ✓ <code>pymssql</code> package in SQL Server ✓ <code>pip list</code> & Package Manager ✓ Python runtime, Py Package ✓ <code>pymssql.connect</code> & Usage ✓ Cursor Variables & Usage 	<p>Ch 36: Power BI with Python</p> <ul style="list-style-type: none"> ✓ Using Python Script Visual ✓ PyScript Options & Tuning ✓ Settings, Labelling Options ✓ Running and Testing Scripts ✓ Data Validations in Power BI ✓ Power BI: <code>ipybn</code> Scripts ✓ Interactive Reports ✓ Data Formatting with Python ✓ End to End Realtime Projects

Resume, Mock Interview + Project FAQs and Solutions



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Trending Job Roles

- Data Analyst
- Data Scientist
- Data Engineer
- Solution Architect
- Consultant, more .. !








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Training Highlights

- ✓ Step by Step
- ✓ LIVE Project(s)
- ✓ Job Assistance
- ✓ Resume Guidance
- ✓ Concept wise FAQs



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