

**SQL School®**  
Quality Training Assured

# Power BI Training

with **SQL Database, AI**

Build Powerful Dashboards. Gain Real Insights.  
Accelerate Your Data Career!

- Connect SQL Databases Seamlessly
- Transform Data with Power Query
- Create Stunning Dashboards
- AI Insights Smarter Analysis with AI
- Share & Publish Reports with Confidence

100% Practical Training | Real-Time Projects | 1:1 Mentorship | Resume & Interview Support

- Expert Trainers Industry Experts
- Real-Time Projects
- Daily Assignments & Feedback
- Certification Guidance
- Job Assistance & Mock Interviews

**NEW BATCH STARTING SOON!** | **BOOK YOUR FREE DEMO**

www.sqlschool.com | +91 99514 40801 | 20+ Years of Trust | 1 Lakh+ Happy Learners | ISO Certified | MSME Registered

## What is Data?

Data refers to raw facts, figures, and statistics collected from various sources

## What is Data Analysis?

Data Analysis is an art to understand the data, identify hidden trends of data. This involves Data Presentation, Data Classification and Detailed understanding of data.

## What is Power BI?

Power BI is a suite of tools used to design Reports, build dashboards and perform end user analytics. Very easy, friendly interface to deal with any type of data. Very Robust and Faster, Accurate.

## How to master Power BI?

Power BI has a rich set of components to master for 100% Job Orientation. You need to have complete grip on:

1. Power BI Design Tools (Desktop Tools, Builder Tools, etc..)
2. Power BI Analytic Components (Power Query, DAX, etc..)
3. Power BI Hosting Components (Cloud, Report Server, etc..)
4. Power BI Gateway Components
5. Power BI with AI, CoPilot (Involving Realtime Projects)

In our training classes, we teach you all these components with entire Eco-system – step by step !

## Who can join this Power BI Training Program?

Any one ! We start our classes from the very basics. Step by step. Hence, anyone can join the course !

## Power BI Training From SQL School - Highlights

- ✓ 50+ Hands-on Labs
- ✓ 500+ SQL Interview Questions
- ✓ 100+ Power BI Scenarios
- ✓ 30+ Dashboard Designs
- ✓ LinkedIn Portfolio
- ✓ End-to-End Capstone Project
- ✓ Mock Interviews
- ✓ Weekly Assessments
- ✓ Lifetime Community Access
- ✓ Placement Guidance

***Recruiters appreciate domain exposure. We include what they need in this course !!***

### Course Details:

- ✓ **Total Duration:** 2 Months
- ✓ **Training Modes:** **LIVE Online** / **Self-Paced Videos**

### Why SQL School?

- ✓ 100% Practical Training
- ✓ Real-Time Projects
- ✓ Daily Assignments & Weekly Feedback
- ✓ Resume & Interview Support
- ✓ Certification Guidance

### Who can Enrol:

- ✓ Freshers & Starters
- ✓ Career Gap Professionals
- ✓ IT & Non-IT Experienced Individuals

## **Power BI Training: Detailed Course Content**

*This detailed content with 100% Hands-On, Daily Assignments make you 100% Job ready !*

### Module 1: MSSQL & TSQL

#### Ch 1: SQL Database Job Roles

- ✓ Database Intro
- ✓ OLTP, DWH, OLAP
- ✓ DBMS Basics
- ✓ Power BI 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

- ✓ Data Imports with Excel
- ✓ Data Imports with CSV
- ✓ Data Types Detection
- ✓ OLE-DB Connections
- ✓ ORDER BY, TOP, OFFSET

### Ch 7: Schemas & Batches

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

### Ch 8: Constraints, Keys & RDBMS

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

### Ch 9: 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 10: Joins & Queries**

- ✓ Joins: Table Comparisons
- ✓ Inner Joins & Matching Data
- ✓ Outer Joins: LEFT, RIGHT
- ✓ Full Outer Joins & Aliases
- ✓ Self Joins & Aliases

### **Ch 11: Sub Queries**

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

### **Ch 12: Group By Queries**

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

### **Ch 13: Joins with Group By, Sub Queries**

- ✓ 3 Table, 4 Table Joins
- ✓ Join Queries & WHERE
- ✓ Join & Group By, Sub Queries
- ✓ IIF(), CASE Statement
- ✓ EXISTS, NOT EXISTS
- ✓ Query Execution Order

### **Ch 14: Views & RLS**

- ✓ Views: Realtime Usage
- ✓ DML, SELECT with Views
- ✓ WITH CHECK OPTION
- ✓ Row Level Security (RLS)
- ✓ Important System Views

### **Ch 15: Functions & Queries**

- ✓ User Defined Functions
- ✓ Scalar, Table Value Functions
- ✓ Variables & Parameters
- ✓ Date & Time Functions
- ✓ String Functions
- ✓ Aggregated Functions
- ✓ Data Conversion Functions

## **Ch 16: Advanced SQL & Window Functions**

- ✓ Window Functions (Rank)
- ✓ Row\_Number, DenseRank
- ✓ Partition By & Order By
- ✓ Lag & Lead Functions
- ✓ Pivot, UnPivot
- ✓ Running Totals
- ✓ Moving Average

## **Ch 17: Stored Procedures - 1**

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

## **Ch 18: Stored Procedures - 2**

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

## **Ch 19: Triggers & Automations**

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

## **Ch 20: Transactions & ACID**

- ✓ Auto Commit Transaction
- ✓ Explicit Transactions
- ✓ COMMIT, ROLLBACK
- ✓ Checkpoint & Query Blocking
- ✓ READPAST, LOCKHINT
- ✓ TRY...CATCH & Error Handling

## **Ch 21: SQL Query Performance & Indexing**

- ✓ Clustered vs Nonclustered Indexes
- ✓ Index Seek vs Scan
- ✓ Execution Plans
- ✓ SARGable Queries
- ✓ Tuning Queries
- ✓ Avoiding SELECT \*
- ✓ Indexing JOIN/WHERE columns
- ✓ Statistics Basics

- ✓ Query Optimization Examples

## Ch 22: CTEs & Tuning

- ✓ Common Table Expression
- ✓ CTEs for Data Retrieval
- ✓ CTEs for DML Operations
- ✓ Data Cleansing Techniques
- ✓ Duplicate Detection/Removal

## Ch 23: Temp Tables & Query Techniques

- ✓ Local & Global Temp Tables
- ✓ SELECT..INTO Statement
- ✓ Cursor Basics – When to Use & Avoid
- ✓ NULLIF
- ✓ Basic Execution-Plan Reading

## Ch 24: Bonus / Advanced Module: SQL Server Internals

- ✓ Database Engine Components
- ✓ Parser, Compiler & Optimizer
- ✓ Parsing and Compilation
- ✓ Memory Manager & IO Managers

## Real-Time Project on HealthCare Domain

### Project Requirement:

Solve 20+ Real-World Healthcare Business Requirements.

### Project Workflow:

Database Design → SQL Development → Data Analysis → Performance Optimization

### Project Operational Flow:

Healthcare DB → Patients → Doctors → Appointments → Treatments → Billing → Insurance → SQL Analysis → Stored Procedures → Performance Tuning → Business Reports

### Business Requirements:

*Monthly Hospital Revenue, Top Doctors By Patients Treated, Repeat Patients, Department Performance, Average Treatment Cost, Unpaid Bills, Insurance Claim Analysis, Patient Trends, Month-Over-Month Revenue And Top Procedures...*

## Module 2: Power BI

### Ch 1: Power BI Intro, Installation

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

## **Ch 2: Report Design Concepts**

- ✓ Basic Report Design (PBIX)
- ✓ Data Points, Spotlight
- ✓ Visual Interactions & Edits
- ✓ Focus Mode, PDF Exports

## **Ch 3: Grouping & Hierarchies**

- ✓ Creating Groups: Lists
- ✓ Creating Groups: Bins
- ✓ Hierarchies & Drill-Downs
- ✓ Drill Up, Conditional DrillDown

## **Ch 4: 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 5: Filters & Drill Thru**

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

## **Ch 6: Bookmarks, Buttons**

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

## **Ch 7: SQL DB Access & Big Data**

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

## **Ch 8: Power BI Visualizations**

- ✓ Charts, Bars, Lines, Area
- ✓ Tree Maps & Axis Items

- ✓ Funnel, Card, Mult-Row Card
- ✓ Pie Charts & Waterfall
- ✓ Scatter Chart, Play Axis
- ✓ Infographics, Classifications

#### **Ch 9: Power Query Transformations - 1**

- ✓ 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 10: Power Query Transformations - 2**

- ✓ Group By Transformation
- ✓ Aggregate, Pivot Operation
- ✓ Reverse Rows, Count Rows
- ✓ Data Cleaning, Null Handling
- ✓ Data Type Detection, Change
- ✓ Rename, Replace, Move
- ✓ Fill Up, Fill Down

#### **Ch 11: Power Query Transformations - 3**

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

#### **Ch 12: Power Query Transformations - 4**

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

#### **Ch 13: 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 14: Power BI Cloud Dashboards**

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

#### **Ch 15: Power BI Cloud Operations**

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

#### **Ch 16: Power BI Cloud Gateways**

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

#### **Ch 17: Power BI Cloud Apps**

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

#### **Ch 18: Power BI Report Server, RDL**

- ✓ Power BI Report Server
- ✓ RS Config Tool Options
- ✓ Report Database, TempDB
- ✓ Web Service & Server URL
- ✓ Report Builder Tool
- ✓ Paginated Report (RDL)
- ✓ RDL Report Publish

#### **Ch 19: DAX Concepts & Calculations**

- ✓ DAX Concepts: Intro & Realtime Need
- ✓ DAX Columns: Creation, Use

- ✓ DAX Measures: Creation, Use
- ✓ DAX Functions: IIF, ISBLANK
- ✓ SUM, CALCULATE Functions

#### **Ch 20: DAX Quick Measures**

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

#### **Ch 21: Data Modelling**

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

#### **Ch 22: DAX Joins, Variables**

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

#### **Ch 23: DAX Models & Calculations**

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

#### **Ch 24: 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 25: DAX - Row Level Security**

- ✓ RLS: Row Level Security
- ✓ Data Modelling & Roles

- ✓ Add Cloud Users & KPIs
- ✓ CoPilot with DAX

### Ch 26: DAX – Analytical Reports

- ✓ DAX with Excel
- ✓ Analytical Reports
- ✓ Virtual Cube Concepts
- ✓ Cross Filter Reporting
- ✓ Alerts, Data Activator

### Ch 27: PL 300 Exam Guidance

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

## Module 3: Realtime Project (HealthCare Platform)

### 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 BI Report Server
- ✓ Power Pivot
- ✓ Report Builder

### Skills Gained

- ✓ Data Modeling
- ✓ Power Query
- ✓ DAX
- ✓ End-to-End Power BI Project

### Career Guidance

- ✓ Resume Optimization
- ✓ LinkedIn Optimization
- ✓ ATS-Friendly Resume
- ✓ Salary Negotiation
- ✓ Interview Strategy
- ✓ Job Search Platforms
- ✓ AI Components For Resume

 For free demo: Reach us on Call/WhatsApp @ +91 9666 64 0801 / +91 9666 44 0801

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*Thank You!*



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# POWER BI TRAINING

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