

POWER BI

Complete Practical & Real-time Training Sessions



A Unit of SequelGate Innovative Technologies Pvt. Ltd.

→ ISO Certified Training Institute

→ Microsoft Certified Partner

What is Power BI?

Power BI is a suite of business analytics tools that deliver insights throughout your organization. Connect to hundreds of data sources, simplify data prep, and drive ad hoc analysis. Produce beautiful reports, then publish them for your organization to consume on the web and across mobile devices. Everyone can create personalized dashboards with a unique, 360-degree view of their business. And scale across the enterprise, with governance and security built-in.

In our training course, we provide complete information on Power BI Architecture, Working, DAX, MDX and End User Report Access using Power BI including Mobile Reports, Google Analytics, YouTube and Microsoft One Drive Integration.

All Training Sessions are Completely Practical & Real-time

Every session includes Study Material and Practice Material. Session Handouts.

SQL School (SequelGate Innovative Technologies Pvt. Ltd.), #108/2RT, Street No 2, Road No 1,
Landmark :Beside SR Nagar Bus Stop, SR Nagar, Hyderabad - 38, India.

CREDITS: ISO Certified Learning Center. Microsoft Certified Learning Partner. www.sqlschool.com

POWER BI LIVE Training - Course Curriculum

Chapter 1: Introducing Power BI

- ✓ Introduction to Power BI - Need, Importance
- ✓ Power BI - Advantages and Scalable Options
- ✓ History - Power View, Power Query, Power Pivot
- ✓ Power BI Data Source Library and DW Files
- ✓ Cloud Collaboration and Usage Scope
- ✓ Business Analyst Tools, MS Cloud Tools
- ✓ Power BI Installation and Cloud Account
- ✓ Power BI Cloud and Power BI Service
- ✓ Power BI Architecture - Overview
- ✓ On Premise Data Access and Microsoft On Drive
- ✓ Power BI Desktop - Installation, Usage
- ✓ Sample Reports and Visualization Controls
- ✓ Power BI Cloud Account Configuration
- ✓ Understanding Desktop & Mobile Editions
- ✓ Report Rendering Options and End User Access
- ✓ Power View and Power Map. Power BI Licenses
- ✓ Course Plan - Power BI Online Training

CHAPTER 2: CREATING POWER BI REPORTS, AUTO FILTERS

- ✓ Report Design with Legacy & .DAT Files
- ✓ Report Design with Database Tables
- ✓ Understanding Power BI Report Designer
- ✓ Report Canvas, Report Pages: Creation, Renames
- ✓ Report Visuals, Fields and UI Options
- ✓ Experimenting Visual Interactions, Advantages
- ✓ Reports with Multiple Pages and Advantages
- ✓ Pages with Multiple Visualizations. Data Access
- ✓ PUBLISH Options & Report Verification in Cloud
- ✓ "GET DATA" Options and Report Fields, Filters
- ✓ Report View Options: Full, Fit Page, Width Scale
- ✓ Report Design using Databases & Queries
- ✓ Query Settings and Data Preloads
- ✓ Navigation Options and Report Refresh
- ✓ Stacked bar chart, Stacked column chart
- ✓ Clustered bar chart, Clustered column chart
- ✓ Adding Report Titles. Report Format Options
- ✓ Focus Mode, Explore, Export Settings

CHAPTER 3: REPORT VISUALIZATIONS and PROPERTIES

- ✓ Power BI Design: Canvas, Visualizations and Fields
- ✓ Import Data Options with Power BI Model, Advantages
- ✓ Direct Query Options & Real-time (LIVE) Data Access
- ✓ Data Fields and Filters with Visualizations
- ✓ Visualization Filters, Page Filters, Report Filters
- ✓ Conditional Filters and Clearing. Testing Sets
- ✓ Creating Customized Tables with Power BI Editor
- ✓ General Properties, Sizing, Dimensions, and Positions
- ✓ Alternate Text and Tiles. Header (Column, Row) Properties
- ✓ Grid Properties (Vertical, Horizontal) and Styles

Chapter 4: DAX - SYNTAX and FUNCTIONS

- ✓ DAX - Data Analysis Expressions
- ✓ Purpose of DAX, Syntax Rules
- ✓ Possible Operations and Usage
- ✓ DAX Data Types and Operators
- ✓ DAX Values and Usage Options
- ✓ DAX Functions - Scalar, Statistical
- ✓ Mathematical & Time Functions in DAX
- ✓ Aggregate & Logical Functions in DAX
- ✓ Conversion & Relational Functions in DAX
- ✓ Working with Columns and Measures in DAX
- ✓ Row Context and Filter Context
- ✓ Using DAX for Calculated Columns

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<ul style="list-style-type: none"> ✓ Table Styles & Alternate Row Colors - Static, Dynamic ✓ Sparse, Flashy Rows, Condensed Table Reports. Focus Mode ✓ Totals Computations, Background. Borders Properties ✓ Column Headers, Column Formatting, Value Properties ✓ Conditional Formatting Options - Color Scale ✓ Working with external data sources ✓ Page Level Filters and Data Fields ✓ Report Level Filters and Data Fields ✓ Report Fields, Formats and Analytics ✓ Creating and Using Hierarchies ✓ Column Refresh and Report Refresh Options ✓ Visual-Level Filters and Importance ✓ Page-Level Filters and Cortana - Q & A Options ✓ Report-Level Filters - Visualizations ✓ Format Options and Table Styles ✓ GRID, Column Headers, Values, Totals ✓ Column Formatting Options, Titles ✓ Background Properties, Borders, Lock Aspect ✓ Chart Reports and Properties - Values, Filters 	<ul style="list-style-type: none"> ✓ Using DAX for Report Measures ✓ Using Logical Operators and Conditions ✓ DAX Filters and Expressions with Columns ✓ DAX Errors and Handling Options ✓ DAX Expressions: Excel Versus Power BI ✓ Pivot Tables and Chart Slicer Functions ✓ Funnel Reports and Data Cards. ✓ Fetching data from different files ✓ Computed Columns & Column Splits ✓ Data Navigation Paths and Data Splits ✓ Merge Queries and Append Queries ✓ Remove columns and split columns ✓ Hiding & Moving Tables in Power BI ✓ Legends, Values, Labels and Data Fields ✓ Adding new Columns and Measures ✓ Power BI Templates (pbit)- Creation, Usage ✓ Exporting Templates and Publish Options
<p>Chapter 5: DAX - FUNCTIONS and CONTEXT</p> <ul style="list-style-type: none"> ✓ Row Context and Filter Context in DAX ✓ ROW, CONTAINS, LOOKUPVALUE ✓ ADDCOLUMNS, MAXX, MAXA, DISTICTCOUNT ✓ CALCULATETABLE, FILTER, SUMMARIZE ✓ CROSSJOIN, GENERATE, GENERATEALL ✓ DISTINCT, ALL, ALLEXCEPT, FILTERS, FILTER ✓ HASONEFLTER, HASONEVALUE, ISCROSSFILTERED ✓ RELATED, RELATEDTABLE, VALUES, ALL ✓ Context Evaluation & ALLSELECTED ✓ SUM, SUMX Functions in DAX ✓ TOPCOUNT, TOPCOUNTX Variants in DAX ✓ Using DAX in data models ✓ Working with DAX Functions ✓ Calculated Measures & Parameters with DAX ✓ DAX Local Measures and Considerations ✓ Excel Add-Ins for Power BI. Usage Options 	<p>Chapter 6: DAX - TIME INTELLIGENCE & EXPRESSIONS</p> <ul style="list-style-type: none"> ✓ YTD, QTD, MTD Calculations with DAX ✓ DAX Expressions with Power View ✓ DAX Calculations and Measures ✓ Using TOPN, RANKX, RANK.EQ ✓ Computations using STDEV & VAR ✓ SAMPLE Function, COUNTALL, ISERROR ✓ ISTEXT, DATEFORMAT, TIMEFORMAT ✓ Time Intelligence with DAX ✓ Time Intelligence Functions with DAX ✓ Data Analysis Expressions and Functions ✓ DATESYTD, DATESQTD, DATESMTD ✓ ENDOFYEAR, ENDOFQUARTER, ENDOFMONTH ✓ FIRSTDATE, LASTDATE, DATESBETWEEN ✓ CLOSINGBALANCEYEAR, CLOSINGBALANCEQTR ✓ SAMEPERIOD and PREVIOUSMONTH, QUARTER

<ul style="list-style-type: none"> ✓ pbit and pbix : differences. Usage Options 	<ul style="list-style-type: none"> ✓ KPIs with DAX. Vertipaq Queries in DAX ✓ pbit Limitations and Multi Card Reports
<p>CHAPTER 7: MDX QUERIES, EXRESSIONS IN POWER BI</p> <ul style="list-style-type: none"> ✓ OLAP Data Sources in Power BI ✓ Using MDX Queries with Power BI Queries ✓ MDX SELECT and Perspective Access ✓ KPIs and MDX Expressions with Power BI ✓ MDX with Goal, Value, Trend, Status ✓ Using MDX Controls and Dynamic Parameters ✓ Cube Reports with OLAP Databases ✓ MDX Queries and Filters with Power BI ✓ Working with Pivot & Un pivot columns ✓ YTD, PARALLELPERIOD,SCOPE, ALLMEMBERS ✓ WHERE, EXCEPT, RANGE, NONEMPTY ✓ CURRENT & EMPTY, AND / OR, LEFT / RIGHT ✓ SCOPE, THIS, THIS, FREEZE Functions ✓ ADOMD Client: MDX Query Processing ✓ MDX in Cube Browser - Null, Empty Axis ✓ Hierarchies and Levels with MDX ✓ Choosing between DAX and MDX ✓ Workspace Limitations with MDX Queries ✓ Import and Direct Query Options with OLAP 	<p>CHAPTER 8: REPORT DASHBOARDS, DATA REFRESH</p> <ul style="list-style-type: none"> ✓ Data Refresh Architecture ✓ Publishing Reports to Power BI Account ✓ Dashboards and Pinning Options ✓ Dynamic Data Sources and Encryptions ✓ Dashboards from multiple reports ✓ Creating high-density reports ✓ Data refresh & Power BI refresh architecture ✓ Installing the Power BI Personal Gateway ✓ Configuring Automatic Refresh ✓ Working with MY WORK SPACE group ✓ Workbooks and Alerts with Power BI ✓ Applied steps in query editor ✓ Single row & Multi Row Cards ✓ Using natural language Q&A to data ✓ Adding tiles to the dash boards ✓ Adding YouTube videos to dashboards ✓ Adding images to the dashboards ✓ Parameters : Static and Dynamic Parameters ✓ Dependant Parameters and Visibility Options

CHAPTER 9: POWER BI GATEWAYS & CONTENT PACKS

- ✓ Consuming a service content pack
- ✓ Creating a custom data set from a service
- ✓ Creating a content pack for your organization
- ✓ Consuming an organizational content pack
- ✓ Updating an organizational content pack
- ✓ Working with Pivot & Un Pivot columns
- ✓ Creating index and custom columns
- ✓ Group By functionality in Query Editor
- ✓ Applied Steps in Query Editor, M Language
- ✓ M Language Semantics and Usage Options
- ✓ Managing Gateways & Content Packs
- ✓ Installing Personal, Enterprise Gateways
- ✓ Trace Verbosity and Additional Logging Options
- ✓ Configuring Cloud Connections and On Premise
- ✓ Azure Bus Connections and Gateway Logs
- ✓ Defining relationships between tables
- ✓ Creating a custom Data Set From Service
- ✓ Publishing a report to Power BI Services
- ✓ Creating custom visualizations for Power BI
- ✓ Introducing the Power BI REST API

CHAPTER 10: BUILDING A DATA MODEL

- ✓ Building Power BI Report Model
- ✓ Modeling Roles and Techniques
- ✓ Building columns for specific charts
- ✓ Using DAX for Slicing Operations in Power BI
- ✓ Slicing and Dicing Options with Columns, Measures
- ✓ IF..ELSEIF.. Conditions with DAX
- ✓ Loading individual tables, Default Values
- ✓ Implementing Measures, Hierarchies
- ✓ Creating Calculated Columns
- ✓ Invoke Function and Freezing Columns
- ✓ Query Dependencies and Transformations
- ✓ Improving the report by using measures
- ✓ Working with Power BI Views - Performance
- ✓ KPIs and Actions with Power BI
- ✓ Building blocks of Power BI
- ✓ Creating high-density reports
- ✓ Using Images and Videos with Power Reports
- ✓ Indexing Connections and Column Duplications
- ✓ Conditional Splits, Merge and Pivot/Un pivot
- ✓ POWER APPS, LOGIC APPS, MICROSOFT FLOW

CHAPTER 11: IMPROVING POWER BI REPORTS

- ✓ Choosing the right visualizations
- ✓ Custom Visualizations and Conditions
- ✓ Working with MY WORK SPACE group
- ✓ Using DAX in Report Models
- ✓ Adding tiles to the Dash Boards
- ✓ Adding YouTube videos to dashboards
- ✓ Google Analytics with Power BI
- ✓ Google Analytics Server and Content Packs
- ✓ Adding Reports to Microsoft One Drive
- ✓ Adding images to the dashboards
- ✓ Working with all visualizations
- ✓ Using natural language Q & A to data
- ✓ Reading & Editing Power BI Views
- ✓ Managing report in Power BI Services

CHAPTER 12: POWER BI ACCESS & CLOUD INTEGRATION

- ✓ Getting data from existing systems
- ✓ Data Refresh and LIVE Connections
- ✓ Using relational databases on-premises
- ✓ Using relational databases in the cloud
- ✓ Using live connections to Analysis Services
- ✓ Integrating Power BI with Office
- ✓ Publish Excel data models in Power BI
- ✓ Consume Power BI content from Excel
- ✓ Managing Security to Access Data
- ✓ Using Row-Level Security & User Access
- ✓ Extending and customizing Power BI
- ✓ Power BI embedded in applications
- ✓ Power BI Mobile and Report Access
- ✓ Power BI Integration with Microsoft Azure

CHAPTER 13: INTEGRATION ELEMENTS IN POWER BI

- ✓ SSRS Integration with Power BI
- ✓ SSRS Scale out Deployments & Power BI
- ✓ Report Builder Reports to Power BI
- ✓ Report Migration Options, Settings
- ✓ KPI Reports and Mobile Reports
- ✓ Generating QR Codes and Report Security
- ✓ SSAS Integration with Power BI
- ✓ SQL Azure and Azure Market Place
- ✓ SCALA and PYTHON Data Access
- ✓ Creating high-density Reports

CHAPTER 14: POWER BI with Microsoft R

- ✓ Install / Configure MRAN
- ✓ R Language Usage and R Analytics
- ✓ Using R For Big Data Analytics
- ✓ Using R Packages with Power BI
- ✓ R Data Analysis in Power BI - Advantages
- ✓ Machine Learning Techniques - Power BI
- ✓ SCALA and PYTHON Data Access
- ✓ Machine Learning Techniques - Power BI
- ✓ Creating high-density reports
- ✓ Working with Arc GIS Maps, ESRI Files

Reach us for Free demo today.

Course Curriculum @ <http://sqlschool.com/PowerBI-Training.html>

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ALL OUR TRAININGS SESSIONS ARE COMPLETELY PRACTICAL & REALTIME

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