



Openminds Technologies



Power BI Course

- Introduction to Business Intelligence & Power BI
- Power BI Interface & Basics
- Data Sources & Connections
- Power Query Editor (ETL in Power BI)
- Data Modeling
- DAX (Data Analysis Expressions) – Basic to Advanced
- Data Visualization
- Advanced Reporting Features
- Power BI Service
- Power BI Administration
- SQL for Power BI
- Power BI Interview Preparation
- Resume & Placement Assistance
- Power BI Advanced Topics



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1 Introduction to Business Intelligence & Power BI

- What is Business Intelligence (BI)
- Importance of Data Analytics
- Types of Analytics
 - Descriptive
 - Diagnostic
 - Predictive
 - Prescriptive
- Introduction to Power BI
- Components of Power BI
 - Power BI Desktop
 - Power BI Service
 - Power BI Mobile
 - Power BI Report Server
- Power BI Architecture
- Installing Power BI Desktop
- Power BI Licensing Overview

2 Power BI Interface & Basics

- Understanding Power BI Desktop Interface
- Home Tab
- Transform Tab
- Modeling Tab
- View Tab
- Report View
- Data View
- Model View
- Creating First Dashboard
- Loading Data into Power BI
- Saving & Publishing Reports

3 Data Sources & Connections

- Connecting to Different Data Sources
 - Excel Files
 - CSV / Text Files
 - JSON & XML Files
 - SQL Server
 - Oracle Database
 - MySQL
 - PostgreSQL
 - SharePoint
 - Web APIs
 - Folder Connections
 - Azure Data Sources
- Data Connection Types
 - Import
 - Direct Query
 - Live Connection
 - Composite Models

- Introduction to Power Query
 - What is ETL?
 - Query Editor Interface
 - Applied Steps
 - Query Dependencies
- Data Cleaning Techniques
 - Remove Duplicates
 - Remove Null Values
 - Replace Values
 - Change Data Types
 - Split Columns
 - Merge Columns
 - Fill Up / Fill Down
 - Extract Text
 - Add Conditional Columns
 - Index Columns
- Advanced Transformations
 - Pivot Columns
 - Unpivot Columns
 - Group By
 - Merge Queries
 - Append Queries
 - Transpose Data
 - Custom Columns
 - Parameters
- Power Query Functions (M Language)
 - Introduction to M Language

- Introduction to Data Modeling
- Importance of Data Modeling
- Fact Tables
- Dimension Tables
- Star Schema
- Snowflake Schema
- Relationships
 - One-to-One
 - One-to-Many
 - Many-to-Many
 - Cross Filter Direction
- Model Optimization
 - Cardinality
 - Hierarchies
 - Role Playing Dimensions
 - Active vs Inactive Relationships



- Introduction to DAX
- Calculated Columns
- Measures
- Calculated Tables
- Difference Between Measure & Column
- Basic DAX Functions
 - SUM
 - COUNT
 - DISTINCTCOUNT
 - MIN / MAX
 - AVERAGE
 - DIVIDE
- Logical Functions
 - IF
 - SWITCH
 - AND / OR
- Date & Time Functions
 - TODAY
 - NOW
 - YEAR
 - MONTH
 - QUARTER
 - DATEDIFF
- Text Functions
 - LEFT
 - RIGHT
 - MID
 - CONCATENATE
- Filter Functions
 - FILTER
 - ALL
 - ALLEXCEPT
 - VALUES
 - SELECTEDVALUE
- Aggregation Functions
 - SUMX
 - AVERAGEX
 - COUNTX
- Time Intelligence Functions
 - TOTALYTD
 - TOTALMTD
 - SAMEPERIODLASTYEAR
 - DATEADD
 - PARALLELPERIOD
- Advanced DAX
 - CALCULATE
 - RELATED
 - RELATEDTABLE
 - USERELATIONSHIP
 - RANKX
 - TOPN
 - Variables in DAX
 - Context Transition
 - Row Context
 - Filter Context

- Basic Visualizations
 - Table
 - Matrix
 - Card
 - Multi-row Card
 - KPI
- Charts
 - Bar Chart
 - Column Chart
 - Pie Chart
 - Donut Chart
 - Line Chart
 - Area Chart
- Combo Chart
- Waterfall Chart
- Funnel Chart
- Gauge Chart
- Scatter Plot
- Maps
 - Map Visual
 - Filled Map
 - ArcGIS Maps
- Slicers & Filters
 - Visual Level Filters
 - Page Level Filters
 - Report Level Filters
 - Drillthrough Filters
 - Sync Slicers
- Interactive Features
 - Drill Down
 - Drill Through
 - Tooltips
 - Bookmarks
 - Buttons
 - Navigation



- Conditional Formatting
- Dynamic Titles
- Dynamic Measures
- Field Parameters
- What-If Parameters
- Custom Tooltips
- Report Themes
- Custom Visuals
- Paginated Reports
- Mobile Layout Design

- Introduction to Power BI Service
- Publishing Reports
- Creating Dashboards
- Workspaces
- Sharing Reports
- Apps in Power BI

- Collaboration
 - Row Level Security (RLS)
 - User Roles
 - Data Security
 - Subscription Setup

- Data Refresh
 - Scheduled Refresh
 - Gateway Configuration
 - Incremental Refresh

- Workspace Management
- Tenant Settings
- Security Management
- Audit Logs
- Usage Metrics
- Power BI Gateway
- Capacity Management
- Deployment Pipelines



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SQL for Power BI

- SQL Basics
 - SELECT Statement
 - WHERE Clause
 - ORDER BY
 - GROUP BY
 - HAVING
- Joins
 - INNER JOIN
 - LEFT JOIN
 - RIGHT JOIN
 - FULL JOIN
- Advanced SQL
 - Subqueries
 - CTEs
 - Window Functions
 - Views
 - Stored Procedures

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Power BI Interview Preparation

- Power BI Interview Questions
- Scenario-Based Questions
- DAX Interview Questions
- SQL Interview Questions
- Resume Preparation
- Mock Interviews

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Resume & Placement Assistance

- Resume Building
- LinkedIn Profile Optimization
- Job Portal Guidance
- Real-Time Case Studies
- Certification Guidance
- Placement Support



Power BI Advanced Topics

- Dataflows
- Fabric Introduction
- AI Dashboard Creation
- Power Automate with Power BI
- Power Apps Integration
- REST APIs
- Performance Tuning
- DAX Query Optimization



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Tools Covered

- Power BI Desktop
- Power BI Service
- SQL Server (Basics)
- Power Query
- DAX Studio
- Power Automate
- Power Apps



Outcome of the Course

- After completing this course, students will be able to:
 - Build Interactive Dashboards
 - Create Data Models
 - Write Advanced DAX Queries
 - Perform ETL using Power Query
 - Publish Reports to Power BI Service
 - Implement Security & Scheduling
 - Work on Real-Time Projects
 - Attend Power BI Interviews Confidently
- Suitable For
 - Freshers
 - Data Analysts
 - BI Developers
 - Excel Professionals
 - IT Professionals
 - Reporting Analysts
 - Managers & Decision Makers

