

PowerBI & PowerApps

Course Content

Welcome to the Corporate Power BI training course, in this course you will learn Power BI along with the below skills.

- SQL Server
- Power BI
- Azure Analysis Services Tabular Model (Complementary add on)

SQL Server

1. **Introduction to SQL Server**

- What is SQL Server and its use
- How to Install and Connect to SQL Server
- Components of SQL Server

2. **Commands in SQL Server**

- Data Definition Language (DDL)
- Data Manipulation Language (DML)
- Data Query Language (DQL)
- Data Control Language (DCL)
- Transaction Control Language (TCL)

3. **Functions**

- String Functions
- Aggregate Functions
- Date Functions
- Advanced Functions

4. **Constraints**

- Primary Key
- Foreign Key
- Unique
- Not Null
- Default
- Check

5. **Operators**

- Union All
- Union
- Except
- Intersect
- Like

6. **Joins**

- Inner Join

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- Left Join
 - Right Join
 - Cross Join
 - Equi Join
7. Outer Join views
- What is View
 - Creating View
 - Difference between View and Table
8. **Ranking Functions**
- Row number
 - Rank
 - Dense Rank
 - Ntile
9. **Index**
- Index
 - Types of Indexes
 - Uses of Indexes
10. **Subqueries**
- Subquery
 - Types of Subqueries

Power BI

- What is Power BI
- What is its Use
- Why do companies Prefer Power BI Over other reporting tools

1. **Data Loading**

- Types of Power BI Components
- Types of Data Sources and their Categorization
- Loading Data into Power BI
- 3Import vs Direct Query vs Live Connection
- Introduction to Power Query
- Working with Power Query
- Introduction Power Pivot
- Introduction to Different Visualizations
- Working with Different Visualizations
- Types of Views in Power BI

2. **Data Modelling**

- Introduction to Relationships/Data Modelling
- Working with Data Modelling
- Creating Columns

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- Creating Measures
- Types of Measures
- Filters in Power BI

3. DAX Functions

- Introduction to DAX
- Working with DAX formulas
- Introduction to Calculation Groups

4. Security in Power BI

- Introduction to Security in Power BI
- Row Level Security and their types
- RLS for different Hierarchies

5. Creating Reports

- Working on Creating Sample reports
- Drill Down vs Drill through
- Tooltips
- Introduction to Parameters and their Usage
- Sync Slicers

6. Bookmarks and Page Navigation

- Introduction Action and their types
- Introduction to Bookmarks and Page navigation
- Working Bookmarks and Page navigation
- Realtime examples of Bookmarks and Page navigation

7. Performance Analyzer

- Introduction to Performance Analyzer
- Introduction to DAX Studio
- Working with Performance Optimization of the report

8. Power BI Service

- Introduction to Power BI Service
- Dashboard vs Report
- Using Power BI Data Set as a Source to the Report
- Creating Usage Metric reports
- Scheduling the Reports

9. Real Time Scenarios

- Changing source of the Report from one to another
- Connecting Different Environments Using Parameters
- Calculation Groups Detailed Discussion
- Paginated Reports

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Azure Analysis Services Tabular Model (AAS)

1. **Introduction**

- What is AAS
- How to Install AAS

2. **Creating a basic model**

- Loading tables/views into AAS
- Defining Relationships
- Creating Row Level Security in AAS
- Creating Measure/Columns in AAS

3. **Partitions in AAS**

- What is Partition
- How to create a partition
- Realtime scenarios

4. **Processing options in AAS**

- What is Process
- Types of Processes

5. **Perspectives in AAS**

- What is Perspective
- How to create Perspective

6. **Access Management in AAS**

- How to Provide Access
- How to access the AAS model

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Power Apps

1. Introduction

- What is Power App
- Types of sources for Power App
- Canvas App vs Model Driven App

2. Creating a Power App

- Creating a Basic Power App
- Creating Power App using Excel
- Add, Update, Remove and Filtering Items

3. Power App Controls

- Radio Button, List Box control, Combobox control
- Drop down control, Gallery Control, Data table
- Toggle control and Time Control
- Advanced Controls

4. Power App Charts

- Column chart
- Line Chart
- Pie chart

5. Power App Functions

- Power App Table()
- Sum
- Value
- Replace
- IF
- For All
- Patch
- Add Columns
- First, FirstN, Last and LastN
- Lower, Upper, Proper
- Count Functions
- Time Functions

6. Power App Licenses

- Power App Free Plan
- Power App Developer Plan
- Power App Per User
- Power App for User
- Dynamic 365
- Office 365

7. Exploring on different Power Apps

- Leave Tracker
- Asset Control

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