Power BI Advanced with paginated reports

Days :4 (32 hours)

Module 1: Preparing Data in Power BI

Lesson 1: Introduction to Enhancing Data Structure

 o Enhancing Data Structure – Join Types Merge Queries

 o Profile data in Power BI

 o Shape the initial data

 o Simplify the data structure

 o Evaluate and change column data types

Lesson 2: Introduction to Designing a Data Model

 o Introduction to Dimensional Modeling

 o Elements of the Dimensional Data Model

  ⬚ Fact

  ⬚ Dimension

  ⬚ Attributes

  ⬚ Fact Table

  ⬚ Dimension Table

 o Fact Vs Dimension

 o Understanding cardinality

 o Creating Relationships and their effects

 o Configuring Tables

 o Work with relationships and cardinality

 o Resolve modelling challenges

 o Creating Hierarchy

 o Explore time-based data

Module 2: Calculation with DAX

Lesson 1: Introduction to DAX

     o Write DAX formulas

     o Calculated Column

     o Measures

     o Create simple measures

     o Create compound measures

     o Create quick measures

     o Calculate Tables

     o Compare calculated columns with measures

     o Evaluation Context

     o Types of Contexts

Lesson 2: Working with context in the data model

     o Getting data from other tables using RELATED

     o Modifying the context using CALULATE function

     o Use of USERELATIONSHIP function

Lesson 4 Using DAX to perform Advance calculation

     o Handling errors gracefully

     o Understanding Row Context with Iterator function

           ▪ SUMX

           ▪ AVERAGEX

           ▪ MAXX

           ▪ RANKX)

Lesson 5: Creating and Manipulating Table in DAX with functions

      ▪ FILTER

      ▪ SUMMARIZE

      ▪ SUMMARIZECOLUMN

      ▪ GROUP BY

- ADD COLUMN

- CALENDAR & CALENDARAUTO

Lesson 6: Working with Time

- DatesYTD

- DatesQTD

- DatesMTD

- Year on Year growth calculation

- DateAdd

- Parellelperiod

- SameperiodLastYear

- Importance of Variables and Comments

- Introduction to Optimizing Model Performance

Module 3: Introduction to advanced data visualization concepts

o Create and import a custom report theme

o Enable personalized visuals in a report

o Design and configure Power BI reports for accessibility

o Review report performance using Performance Analyzer

o Explore statistical summary

o Identify outliers with Power BI visuals

o Apply clustering techniques

o Conduct time series analysis

o Use the Analyze feature

o Use advanced analytics custom visuals

o Advanced Analytics – Grouping

o Advanced Analytics – Binning

o Advanced Analytics – Bandings

o Creating Animated Scatter Charts

o Using Visuals to Forecast Values

Module 4: Advance feature of Power BI

Lesson 1: Introduction to creating Dashboards

- o Creating Dashboards – Editing Published Reports and Pinning to a New Dashboard

- o Introduction to Real-Time Dashboards

- o Creating Forms for Pushing Data

- o Creating Push Datasets

- o Accessing Power Automate

- o Creating Flow to Push Form Data into Dataset

- o Respond to Survey

- o Enhancing Dashboards with Custom Themes

- o Enhancing Dashboard with Videos

- o Enhancing Dashboard Tile Alerts

- o Using Q&A and Quick Insights and Add to Dashboards

Module 5: Creating Paginated Reports

Lesson 1: Downloading Report Builder and creating Paginated Report

- o Introduction to paginated reports

- o Get data

- o Create a paginated report

- o Work with charts on the report

- o Create Parameters and Publish the report

Lesson2: Introduction to Managing Datasets

- o Creating Parameters

- o Editing Parameters in the Service and Refreshing Datasets and Visuals

- o Working with What if Parameter

- o Implementing Row Level Security