Analyzing Data with **Power BI** - Course PL-300T00

This course will discuss the various methods and best practices that are in line with business and technical requirements for modeling, visualizing, and analyzing data with Power BI. The course will also show how to access and process data from a range of data sources including both relational and non-relational data. This course will also explore how to implement proper security standards and policies across the Power BI spectrum including datasets and groups. The course will also discuss how to manage and deploy reports and dashboards for sharing and content distribution. Finally, this course will show how to build paginated reports within the Power BI service and publish them to a workspace for inclusion within Power BI.

CODE: ED24A30

DURATION: 28 hours

START DATE: 17/04/2024

AUDIENCE PROFILE:

The audience for this course are data professionals and business intelligence professionals who want to learn how to accurately perform data analysis using Power BI. This course is also targeted toward those individuals who develop reports that visualize data from the data platform technologies that exist on both in the cloud and on-premises.

PREREQUISITES FOR PARTICIPATION:
Very Good knowledge of Microsoft Excel.

TRAINING LANGUAGE:

Greek or English

TRAINING MATERIALS:

Step by Step training materials in the English Language

METHODOLOGY:

Lecture, discussion, demonstration and practice.

COURSE OBJECTIVES:

Upon completion of this course the participants will :
- Ingest, clean, and transform data
- Model data for performance and scalability
- Design and create reports for data analysis
- Apply and perform advanced report analytics.
- Manage and share report assets.
- Create paginated reports in Power BI

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Power BI
- Course PL-300T00

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VENUE: WEBINAR

DATES & TIMES:

Wednesday, 17/04/2024, 08:15 -16:00
Saturday, 20/04/2024, 08:15 -16:00
Wednesday, 24/04/2024, 08:15 -16:00
Friday, 26/04/2024, 08:15 -16:00

PARICIPATION COST:
The cost incudes the course notes and certificate.
In the event of classroom led training, coffee, snacks and lunch (only for full day courses) are offered complimentary.

Participation Cost
- Total Cost: €840,00
- HRDA Subsidy: €560,00
- Net Cost: €280,00

For Unemployed
- Please contact us

Analyzing Data with Power BI

COURSE TOPICS

Module 1

Get Started with Microsoft Data Analytics

Lessons
- Data Analytics and Microsoft
- Getting Started with Power BI

Lab : Getting Started
- Getting Started

Module 2

Prepare Data in Power BI

Lessons
- Get data from various data sources
- Optimize performance
- Resolve data errors

Lab : Preparing Data in Power BI Desktop
- Prepare Data

Module 3

Clean, Transform, and Load Data in Power

Lessons
- Data shaping
- Enhance the data structure
- Data Profiling

Lab : Transforming and Loading Data
- Loading Data

Module 4

Design a Data Model in Power BI

Lessons
- Introduction to data modeling
- Working with tables
- Dimensions and Hierarchie

Lab : Data Modeling in Power BI Desktop
- Create Model Relationships
- Configure Tables
- Review the model interface
- Create Quick Measures

Lab : Advanced Data Modeling in Power BI Desktop
- Configure many-to-many relationships
- Enforce row-level security

Module 5

Create Model Calculations using DAX in Power BI

Lessons
- Introduction to DAX
- DAX context
- Advanced DAX

Lab : Introduction to DAX in Power BI Desktop
- Create calculated tables
- Create calculated columns
- Create measures

Lab : Advanced DAX in Power BI Desktop
- Use the CALCULATE() function to manipulate filter context
- Use Time Intelligence functions

Module 6

Lessons
- Optimze the model for performance
- Optimize DirectQuery Models
- Create and manage Aggregations

Module 7

Create Reports

Lessons
- Design a report
- Enhance the report

Lab : Designing a report in Power BI
- Create a live connection in Power BI Desktop
- Design a report
- Configure visual fields adn format properties

Lab : Enhancing Power BI reports with interaction and formatting
- Create and configure Sync Slicers
- Create a drillthrough page
- Apply conditional formatting
- Create and use Bookmarks

Unit 8

Create Dashboards

Lessons
- Create a Dashboard
- Real-time Dashboards
- Enhance a Dashboard

Analyzing Data with Power BI

COURSE TOPICS

Lab : Designing a report in Power BI Desktop - Part 1
- Create a Dashboard
- Pin visuals to a Dashboard
- Configure a Dashboard tile alert
- Use Q&A to create a dashboard tileWrite

Module 9
Create Paginated Reports in Power BI

Lessons
- Paginated report overview
- Create Paginated reports

Lab : Creating a Paginated report
- Use Power BI Report Builder
- Design a multi-page report layout
- Define a data source
- Define a dataset
- Create a report parameter
- Export a report to PDF

Module 10
Perform Advanced Analytics

Lessons
- Advanced Analytics
- Data Insights through AI visuals

Lab : Data Analysis in Power BI Desktop
- Create animated scatter charts
- Use teh visual to forecast values
- Work with Decomposition Tree visual
- Work with the Key Influencers visual

Module 11
Create and Manage Workspaces

Lessons
- Creating Workspaces
- Sharing and Managing Assets

Lab : Publishing and Sharing Power BI Content
- Map security principals to dataset roles
- Share a dashboard
- Publish an App

Module 12
Manage Datasets in Power BI

Lessons
- Parameters
- Datasets

Module 13
Row-level security

Lessons
- Security in Power BI