

Analyzing Data with Excel

Duration: 3 Day(s)

Course Overview

The main purpose of the course is to give students the ability to add BI techniques to Excel data analysis. The course goes beyond the capabilities of tables and charts and uses Power Query Power Pivot Tables, Pivot Charts, the Excel Data Model, and Power BI.

Review this course online at <https://www.alta3.com/courses/20779>

Objectives

- Design and extend Excel dashboards and data models.
- Implement data import and transformation from various files and databases.
- Create advanced measures using DAX functions.
- Visualize data effectively using Excel and Power BI.

Who Should Attend

- Data Analysts
- SQL Server Report Creators
- Business Intelligence Professionals
- Excel Users Seeking Advanced Skills

Prerequisites

Before attending this course, students must have: ■ Basic knowledge of the Microsoft Windows operating system and its core functionality ■ Good Knowledge of Excel spreadsheets, functions, charts and pivot tables ■ Working knowledge of relational databases

Course Outline

Module 1: Data Analysis in Excel

1. Classic Data Analysis with Excel
2. Excel Pivot Tables
3. Limitations of Classic Data Analysis
4. Lab: Building a Classic Excel Dashboard

Module 2: The Excel Data Model

5. Using an Excel Data Model
6. DAX
7. Lab: Explore an Excel Data Model

Module 3: Importing Data from Files

8. Importing Data into Excel

- 9. Shaping and Transforming Data
- 10. Loading Data
- 11. Lab: Importing Data from a CSV File

Module 4: Importing Data from Databases

- 12. Available Data Sources
- 13. Previewing, Shaping, and Transforming Data
- 14. Table Relationships and Hierarchies
- 15. Loading Data
- 16. Lab: Import Data from Multiple Sources

Module 5: Importing Data from Excel Reports

- 17. Importing Data from Excel Reports
- 18. Transforming Excel report Data
- 19. Lab: Importing Data from a Report

Module 6: Creating and Formatting Measures

- 20. DAX
- 21. Measures
- 22. Advanced DAX Functions
- 23. Lab: Creating Measures using Advanced DAX Functions

Module 7: Visualizing Data in Excel

- 24. Pivot Charts
- 25. Cube Functions
- 26. Charts for Cube Functions
- 27. Lab: Data Visualization in Excel

Module 8: Using Excel with Power BI

- 28. Power BI
- 29. Uploading Excel Data to Power BI
- 30. Power BI Mobile App
- 31. Lab: Creating a Power BI Dashboard with Excel