# Introduction to Business Intelligence

2 days – In-class training


1 Concepts and principles of Business Intelligence, Data Warehouse and Big Data
- 1.1 What is Business Intelligence
- 1.2 Database and Datawarehouse
- 1.3 Datawarehouse and Datamarts
- 1.4 Measures and Facts
- 1.5 OLAP, Schemas and partitions
- 1.6 Non-relational databases and concepts of Big Data

2 Microsoft SQL Server Integration Services and SQL Constructs
- 2.1 SSIS and the various SQL Server editions
- 2.2 Connection and Security Model
- 2.3 Packages
- 2.4 Variable and expressions
- 2.5 Queries and transactions
- 2.6 Control flow and data flow
- 2.7 Execute and deploy packages
- 2.8 Packages in Azure

3 Building, refreshing and managing data Cubes
- 3.1 Tables and Cubes
- 3.2 Schemas, facts, dimensions and cubes
- 3.3 Security of cubes and dimensions
- 3.4 Building and filling a cube
- 3.5 Updating a cube, the exponential dilemma
- 3.6 Controlling data flow

4 Querying data cubes with Excel and Pivot tables
- 4.1 Excel and pivot tables
- 4.2 PowerPivot and pivot tables
- 4.3 Access security


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