DM LAB 3

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TOOLS USED

- Visual Studio Business Intelligence

  - (Analysis, Integration and Reporting Services).

- SQL Server Management Studio 2014

  - (Database Engine and Analysis service).

- Red Gate Data Generation

VISUAL STUDIO BUSINESS INTELLIGENCE
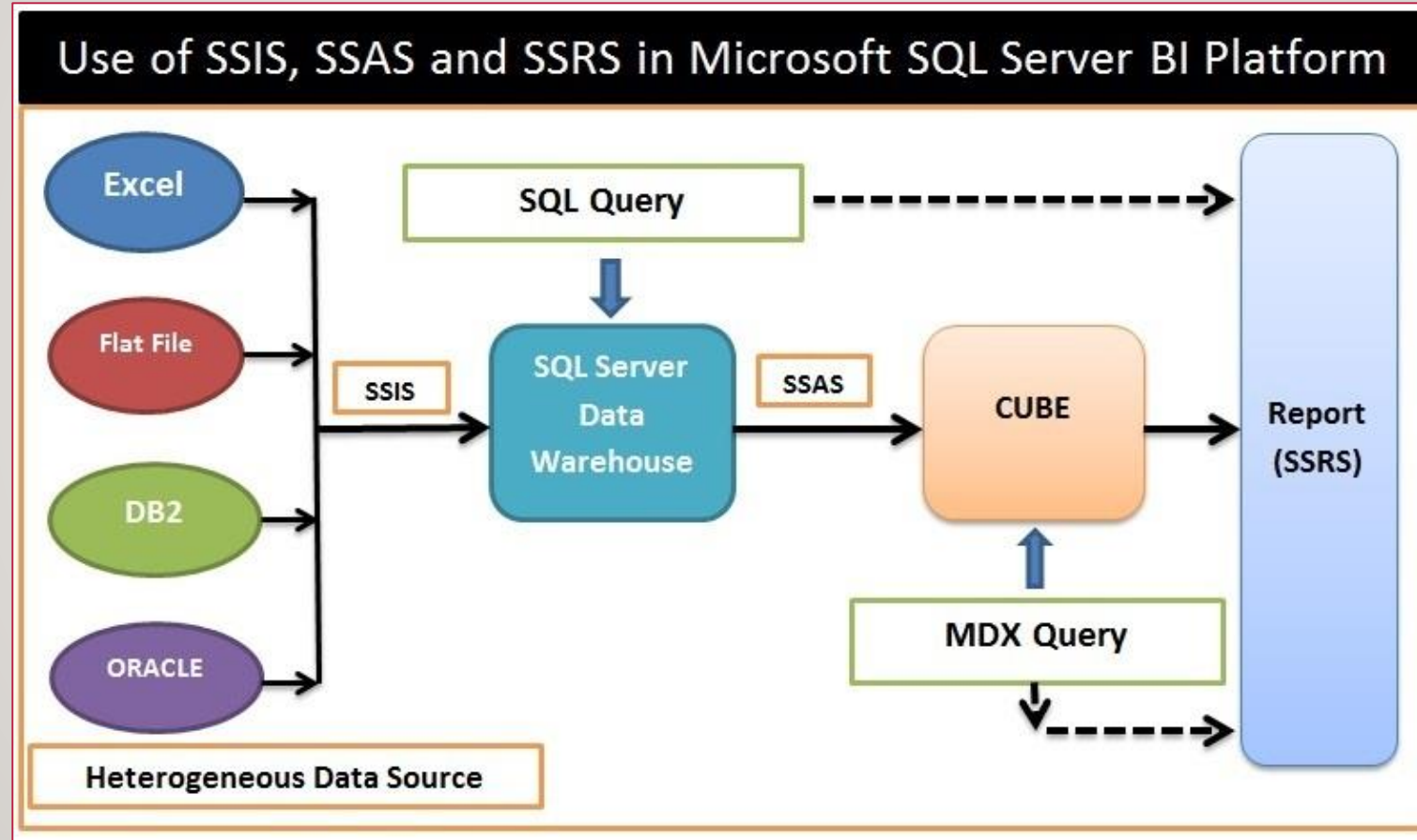
SQL Server Management Studio (SSMS)	SSDE – Database Engine
	SSAS – Analysis Services
	SSRS – Reporting Services
	SSIS – Integration Services

VISUAL STUDIO BUSINESS INTELLIGENCE

VISUAL STUDIO BUSINESS INTELLIGENCE

- SQL Server Integration Services (SSIS)
  - SSIS can help implement an appropriate information management foundation that can deliver integrated, accurate, and timely data.
  - Utilizing SSIS makes sure data is sourced correctly, ensure its quality, and provide the appropriate data architecture for effective reporting and analysis.

Operational Data   ETL   DataWarehouse

SSIS

VISUAL STUDIO BUSINESS INTELLIGENCE

- SQL Server Integration Services (SSIS)
  - SSIS offers:
    - Integration of data from multiple, heterogeneous data sources
    - Data cleansing and profiling to improve data quality
    - Master data management
    - Metadata management to ensure data lineage and history
    - Management of information throughout its lifecycle to enhance governance and compliance

VISUAL STUDIO BUSINESS INTELLIGENCE

- SQL Server Analytic Services (SSAS)
  - SSAS provides online analytic processing (OLAP) of data from disparate data sources.
  - SSAS allows users to analyze data with a host of tools.
  - SSAS enables the discovery of data patterns that may not be immediately apparent through the data mining features built into the product.
  - SSAS can help to design and develop the cubes that make sense and organize that data.

VISUAL STUDIO BUSINESS INTELLIGENCE

- SQL Server Reporting Services (SSRS)
  - SSRS offers consulting services to help you empower your users to make effective, informed decisions based on trusted data and delivered in formats appropriate for the user.

RED GATE
DATA GENERATION

- Tools to generated a realistic data as possible in order to analysis this data and apply the ETL Process on it.

- Red Gate is a tool that let used to put specific constrains and regular expression to generate data and transfer it directly to SQL Server.

THE END