



# SQL Server Business Intelligence Training (SSIS, SSRS, SSAS, Power BI)

by Daniel AG

## Course Description

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Our Microsoft Business Intelligence (MSBI) training enables you to master MSBI tools like SSIS, SSRS, SSAS, and Power BI using SQL Server. As part of this training, you will learn data integration and creating reports, dashboards, and cubes for faster reports generation.

**SSIS:** In the SSIS part of the training, you gain the skills to improve business intelligence capabilities by automating complex migration tasks and auditing the success or failure of migration processes. You will learn to transform data among heterogeneous data sources — such as text files, Oracle, Access, XML, ODBC and OLE DB — and effectively and securely managing data migration across various platforms.

**SSRS:** In the SSRS part of the training, you learn how to implement a SQL Server Reporting Services solution for data analysis in an organization. The course discusses how to use the Reporting Services development tools to create and manage reports and implement self-service BI solutions.

**SSAS:** In the SSAS part of the training, you learn how to implement both multidimensional and tabular data models and how to create cubes, dimensions, measures, and measure groups.

**Power BI:** In the Power BI part of the training, you access data from a wide range of data sources and create Reports using the in-built visuals. You will also learn to format those visuals for maximum effect and import custom M visuals to extend your reporting capability. You will gain expertise in DAX languages and then publish your masterpiece to a workspace in the Power BI Service, creating Dashboards, sharing Reports and Dashboards with colleagues, concluding with scheduling a data refresh.

## Course Information

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### Comprehensive SQL Server BI Training Covering Following Topics:

- Dimension Modeling & Data Warehousing
- SQL Server Integration Services (SSIS)
- SQL Server Reporting Services (SSRS)
- SQL Server Analysis Services – Multidimensional Analysis Model (SSAS)
- SQL Server Analysis Services - Tabular Analysis Model (SSAS)
- MDX Queries
- Power BI

### With the Course Students Get:

- Comprehensive Course Materials
- Recorded Video of Each Class
- Reading Materials
- Lab Exercises
- Research Papers
- Microsoft Certification Materials
- Interview Questions
- Resume Preparation
- Placement Assistance
- On the Job Support Assistance

## Course Contents

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[www.empiredatasystems.com/sql-server-bi-training.html](http://www.empiredatasystems.com/sql-server-bi-training.html)

### Part 1: Dimension Modeling & Data Ware Housing

- Dimension Modeling & Data Ware Housing
- Basic concepts of Business Intelligence
- Basic concepts of Data Warehousing
- Designing facts and dimensions
- Employing key performance indicators
- Dimensional modeling process to design Data Warehouse

### Part 2: MS SQL Server Integration Services (SSIS)

- Extract, Transform and Load (ETL) data – Covering various transformations
- Solve data management problems by migrating and processing data
- Demo on populating data into dimension and fact table using adventure works data warehouse
- ETL Framework

# Program Curriculum

SQL Server Business Intelligence

- Enhance package functionality with scripting
- Implementing loops to import multiple files
- Handling errors and managing exception rows
- SSIS Package Performance Tuning & Best practices
- Deploy packages to an SSIS server
- Administering the storage, security and execution of packages

## Part 3: MS SQL Server Reporting Services (SSRS)

- Producing table and matrix report with drill down and drill through functionality
- Produce reports with enhanced visualization features such as charts, map and gauge
- Integrate parameters, filters and interactive components into reports
- Create reports on SSAS cubes with Report Builder
- Deploying reports to the Report Server
- Creating cached instances, snapshots and subscriptions
- Configuring and testing security on report items
- Report performance tuning

## Part 4: MS SQL Server Analysis Services – Multidimensional Analysis Model (SSAS)

- Creating and deploying a cube
- Extend hierarchies and exploit advanced dimension relationships
- Configuring many-to-many dimension relationships
- Building aggregations with the Aggregation Design Wizard
- Implement Key Performance Indicators to monitor business objectives
- Cube storage mode - MOLAP, ROLAP and HOLAP
- Implementing an action to open a Reporting Services report or to analyze data using Excel
- Automating cube processing with an XMLA script

## Part 5: MS SQL Server Analysis Services - Tabular Analysis Model (SSAS)

- Basics of in memory processing
- Multiple dimensional model vs. tabular analysis model
- Creating and deploying a tabular analysis cube
- Building aggregations with the Aggregation Design Wizard
- Building hierarchy and dimension relationship
- Implement Key Performance Indicators to monitor business objectives
- Query language DAX

## Part 6: MDX Queries

- Basics of MDX
- Working with Sets
- Working with Calculations
- Working with Hierarchical Calculations
- Working with Time Intelligence functions like QTD, YTD
- Deploying calculations



+1 267 718 1533



ag.daniel@empiredatasystems.com



www.empiredatasystems.com

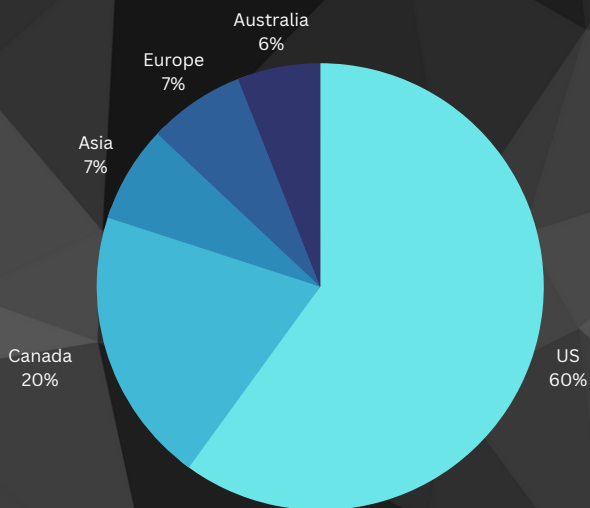
# Program Curriculum

SQL Server Business Intelligence

## Part 7: Power BI

- Perform Power BI desktop data transformation
- Describe Power BI desktop modelling
- Create a Power BI desktop visualization
- Implement the Power BI service
- Describe how to connect to Excel data
- Describe how to collaborate with Power BI data
- Connect directly to data stores

## Our Student Demographic



## Other Courses We Offer

- ✓ SQL Server Database Administration
- ✓ SQL Server Performance Tuning
- ✓ SQL Server Business Intelligence
- ✓ SQL Programming
- ✓ Microsoft Azure Administration
- ✓ Microsoft Azure Data Engineering
- ✓ DevOps Engineering
- ✓ AWS Solutions Architect
- ✓ AWS DevOps

## Our Students Feedback



Please check the below link to see our student's feedback. These feedbacks are an excellent motivator for our trainers to improve in course delivery and engage more in students' training needs and career goals.

[www.empiredatasystems.com/students-feedback.html](http://www.empiredatasystems.com/students-feedback.html)



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ag.daniel@empiredatasystems.com




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# Program Partners


## Our Training Statistics




16 Years of Experience



3671 Gratified Students



112 Training Batches



9634 Training Hours



## About Microsoft

Microsoft is a leading innovator and the biggest player in creating innovative SQL tools. In this certification course, top subject matter experts will share knowledge in the domain of SQL.

### Benefits of this collaboration for learners:

- Industry recognized certification from Microsoft
- Industry-specific case studies and project work

## Contact Us

### Daniel AG

Empire Data Systems LLC,  
256 Eagleview Blvd #387  
Exton, PA 19341, USA

 +1 267 718 1533

 [ag.daniel@empiredatasystems.com](mailto:ag.daniel@empiredatasystems.com)



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 +1 267 718 1533

 [ag.daniel@empiredatasystems.com](mailto:ag.daniel@empiredatasystems.com)



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