Microsoft SharePoint 2013 End to End Business Intelligence Boot Camp

Course Details

Course Outline

1. **Module 1: Course Overview**
   - Introduction
   - Course Materials
   - Facilities
   - Prerequisites
   - What We'll Be Discussing
   - Lab 1: Course Overview

2. **Module 2: The Business Intelligence Stack**
   - Business Intelligence in Three Ways
   - SQL 2012 Business Intelligence
   - SharePoint 2010 Business Intelligence
   - PowerPivot

   o **Lab 1: The Business Intelligence Stack**
   - SQL 2012 Multidimensional Model Basics
   - SQL 2012 Tabular Model Basics

3. **Module 3: SQL Server Integration Services (SSIS) 2012**

   . **What--s New?**
   - Overview of Extract, Transform, and Load (ETL)
   - SSIS Tools
   - Change Data Capture
   - SQL Server Integration Services Scripting
   - Variables, Parameters, and Expressions
   - Package Deployment

   o **Lab 1: SQL Server Integration Services (SSIS) 2012**
   - Explore the SQL Server Data Tools

- Explore SQL Server Management Studio and Back Up a Database
- Run the Import Export Wizard
- Create a Project for the Exercises
- Add Connections to the Control Flow
- Add Execute SQL Tasks and Connect Precedence Constraints
- Add Data Flow and Use the Destination Assistant
- Copy a Package and Reuse Project Connection Managers
- Data Conversion
- Conditional Split
- Multicast
- Aggregate
- Derived Column and Sort
- Lookup
- Project Deployment

4. **Module 4: SQL 2012 Business Intelligence Semantic Model (Multidimensional Mode)**
   - The Data Warehouse/Data Mart
   - The Tools
   - Key Concepts
   - Data Sources
   - Data Views
   - Cubes
   - Data Profiler
   - Proactive Cache
   - Deployment
   - Wizards

   o **Lab 1: SQL 2012 Business Intelligence Semantic Model (Multidimensional Mode)**
   - Create a Sample or Test Database
   - Explore the Key Objects
   - Creating a Server-Side Time Dimension
   - Create a Data Source and Data View

- Explore the Cube

- Partitions

- Aggregations

- Data Profiler

- Proactive Cache

- Deploy and Process

- Build a Cube

5. **Module 5: Microsoft Multidimensional Expressions**

- Concepts in Multidimensional Space

- Basic MDX Statements

- SQL Server Management Studio MDX Query Editor

- Navigating Hierarchies

- Working with Time

- MDX Calculations

- Lab 1: Microsoft Multidimensional Expressions

- Explore MDX

- Write MDX (Optional)

- Explore MDX -- Immediate Relatives

- Write MDX -- Immediate Relatives (Optional)

- Working with Time

- Writing MDX - Working with Time (Optional)

6. **Module 6: SQL 2012 Business Intelligence Semantic Model (Tabular Mode)**

- The Tabular Model

- Data Analytic Expressions (DAX)

- The Editor

- Data Connections

- Creating a Tabular Project

- Relationships

- Measures and Calculated Columns

- Hierarchies

- Perspectives
- KPIs
- Partitions
- Processing
- Deployment

- **Lab 1: SQL 2012 Business Intelligence Semantic Model (Tabular Mode)**
  - Creating a Project and Importing Data
  - Manually Add a Relationship
  - Create Measures and Calculated Columns
  - Create Hierarchies
  - Create a Perspective
  - Create a KPI
  - Process Data and Deploy
  - Connect to a Tabular Model

7. **Module 7: SQL Server 2012 Reporting Services**
   - Report Lifecycles
   - Installation Modes
   - Report Creation Tools
   - Data Sources
   - Datasets
   - Basic Reports
   - Graphics
   - Maps
   - Report Parts

   - **Lab 1: SQL Server 2012 Reporting Services**
     - Using Report Manager
     - Using Report Designer
     - Data Sources and Datasets
     - Basic Reports
     - Graphics

- Basic Maps
- Basic Maps with Color
- Report Parts

8. **Module 8: Master Data Services**
   - What is Master Data Management?
   - System Roles
   - Master Data vs. Transactional Data
   - Master Data Services ETL
   - Master Data Services Key Concepts

   o **Lab 1: Master Data Services**
   - Create a Model
   - Create Entities
   - Create Members
   - Create Attributes
   - Create a Business Rule
   - Deploy Model
   - Load Data
   - Create a Subscribing View

9. **Module 9: Data Mining/Predictive Analytics**
   - Definitions for Our Purpose
   - Problems Addressed
   - Business Analytics
   - CRISP-DM
   - Key Concepts
   - Microsoft Data Mining Process
   - Data Mining Tasks
   - Microsoft Algorithms
   - Matching the Tasks to the Algorithm
   - Data Mining Add-in for Excel
   - PowerPivot for Excel

- Lab 1: Data Mining/Predictive Analytics

  - Using the Data Mining Add-in for Excel

10. **Module 10: SharePoint 2013 Business Intelligence Center**

  - User Interface

  - Libraries and Lists (Apps)

  - Permissions

  - Quick Architecture

  - Central Administration

- **Lab 1: SharePoint 2013 Business Intelligence Center**

  - Introduction to the Business Intelligence Center

  - Libraries, Lists, and Content Types

  - Permissions and Sharing

  - Central Administration Tour and Web Application Creation

11. **Module 11: SharePoint 2013 Excel Services**

  - New 2013 Excel Services Features

  - Core Components

  - Excel Web Access (EWA)

  - What Excel Web Access is Not

  - SharePoint Libraries to Store Workbooks

  - Power View Excel 2013 and SharePoint 2013

  - Excel Web Access Web Part

  - Excel Interactive View

  - Best Practices

- **Lab 1: SharePoint 2013 Excel Services**

  - Creating a Library to Hold Excel 2013 Workbooks

  - Power View

  - Creating a Web Part Page and Adding an Excel Web Part

12. **Module 12: SharePoint 2013 PerformancePoint 2013**

  - What--s New?

  - PerformancePoint Object Hierarchy

- Dashboard Designer
- Dashboards (Web Part Page)
- Indicators
- Data Sources
- Key Performance Indicators as PerformancePoint Objects
- Scorecards
- Filters
- Dashboards (Web Part Page) Revisited
- Dashboard Designer Management

- **Lab 1: SharePoint 2013 PerformancePoint 2013**
  - Dashboard Designer Introduction
  - Dashboard (Web Part Page Creation)
  - Data Sources SQL Server Analysis Services (SSAS)
  - Data Sources SQL, List, Excel Services
  - KPI Basics Connect to a List and SQL
  - KPI Multidimensional Scoring Patterns
  - KPI Using Dimensional Slicers
  - KPI Change the --Worst--� Value
  - Objective KPI
  - Configure Time Intelligence
  - Analytic Charts or Grids
  - Other Reports
  - Reporting Services Report
  - KPI Details Report
  - Connected Scorecards
  - Combining Connected and Standard KPIs
  - Scorecard Settings
  - MDX Query (Optional)
  - Member Selection Filter
  - Named Set Filter

- Time Intelligence Filter

- Cascading Filters

- Dashboards (Web Part Pages)

- Dashboard Designer Management

13. Module 13: SharePoint 2013 Visio Services

- What--s New in Visio Services 2013?

- Visio Graphics Service

- Visio Drawings in the Browser

- Visio Graphics Web Access Part

- Visio Drawings with Data Connections

o **Lab 1: SharePoint 2013 Visio Services**

- Visio Drawing in the Browser

- Visio Services Data-Connected Drawing

- PerformancePoint Dashboard Strategy Maps

14. Module 14: PowerPivot

- PowerPivot and Excel 2013

- PowerPivot and SharePoint

- Enterprise Business Intelligence and PowerPivot

- Enriching Data

o **Lab 1: PowerPivot**

- Import Data from SQL

- Review and Edit the Imported Relationships

- Hide Unused Columns

- Create a PivotTable

15. Module 15: SharePoint 2013 Business Connectivity Services

- What is Business Connectivity Services?

- BCS Terminology

- Business Connectivity Services and Apps From SharePoint 2013

- Using SharePoint Designer with BCS

- Surfacing the BCS Data

o **Lab 1: SharePoint 2013 Business Connectivity Services**

- Setting Permissions on the BDC Store

- Creating an External Content Type

- Creating an External List

16. **Module 16: Dashboards**

- Dashboard Design

- Capabilities Summarization

- Three Types of Dashboards

- Successful Dashboards

- Tables or Graphs

- Types of Graphs

- Choosing a Chart Type

- Key Performance Indicators

- Pitfalls In Dashboard Design

- Microsoft Report Builder 3.0

- Plan Your Reports

- Datasets

- SharePoint Web Parts

o **Lab 1: Dashboards**

- Explore the Report Builder 3.0 Interface (Optional)

- Create an Embedded Data Source into SQL 2012 Engine (Optional)

- Create an Embedded Dataset into SQL 2012 Engine (Optional)

- Create an Embedded Data Source into SQL 2012 Analysis Services (Optional)

- Create an Embedded Dataset into SQL 2012 Analysis Services (Optional)

- Create a Shared Data Source Using Reporting Services (Optional)

- Create a Shared Dataset Using the Shared Data Source (Optional)