Data warehousing & Business Intelligence

From Yes-M Systems LLC

Length: 40-45 Hours Course

Student Location: To students from around the world
Delivery Method: Instructor-Led – Live Training
Classroom and/or Online

Contact us for more details:

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Kudzu Reviews: http://www.kudzu.com/m/Yes-M-Systems-30363491/reviews/

Facebook: http://www.facebook.com/yesmsystems

Youtube: http://www.youtube.com/yesmsystems

Data warehousing & Business Intelligence Syllabus

Introduction to Data warehousing & Business Intelligence SQL Server 2008R2 Business Intelligence

Course Agenda:

- SQL Server 2008R2 Integration Services (SSIS)
- SQL Server 2008R2 Analysis Services (SSAS)
- SQL Server 2008R2 Reporting Services (SSRS)

SQL Server 2008R2 Integration Services

Introduction to SQL Server Integration Services

- SSIS Package Architecture Overview
- Development and Management Tools
- The Import and Export Wizard

Guided tour of Business Intelligence Development Studio

Introduction to Data Flow

- Data Flow Overview
- Data Sources
- Data Destinations
- Data Flow Transformations
- Data Viewers

Data Sources

- Excel Source
- Flat File Source
- OLE DB Source
- XML Source

Data Flow Transformations

- Aggregate Transformation
- Audit Transformation
- Character Map Transformation
- Conditional Split Transformation
- Copy Column Transformation
- Derived Column Transformation
- Data Conversion Transformation
- Multicast Transformation
- OLE DB Command Transformation
- Percentage Sampling Transformation
- Row Count Transformation
- Sort Transformation
- Union All Transformation

Advanced Data Flow

- Lookup Transformation
- Merge Transformation
- Merge Join Transformation
- Slowly Changing Dimension Transformation
- Pivot Transformation
- Export Transformation
- Import Transformation
- Unpivot Transformation

Data Flow Destinations

- Data Reader Destination
- Excel Destination
- Flat File Destination
- OLE DB Destination

Introduction to Control Flow

- Control Flow Overview
- Precedence Constraints
- The Execute SQL Task
- The Bulk Insert Task
- The File System Task
- The FTP Task
- The Send Mail Task
- Bulk Insert Task
- Data Flow Task
- Execute DTS 2000 Package Task
- Execute Package Task
- Execute Process Task
- Web Service Task
- XML Task

Advanced Control Flow

- For Loop Container
- For Each Loop Container
- Sequence Container

Variables and Configurations

- Variables Overview
- Variable scope
- SSIS system variables
- Using variables in control flow
- Using variables in data flow
- Using variables to pass information between packages
- Property expressions
- Configuration Overview
- Configuration options
- Configuration discipline

Debugging, Error Handling and Logging

- SSIS debugging overview
- Breakpoints in SSIS
- Control Flow: The On Error event handler
- Data Flow: Error data flow

- Configuring Package Logging
- Built-in log providers

Extending SSIS through Custom Code – Scripting

- Introduction to SSIS scripting
- The SSIS script editor
- The SSIS object model
- Script in Control flow: The Script Task
- Script in Data flow: The Script Component
- Introduction to SSIS component development

SSIS Package Deployment

- Configurations and deployment
- The deployment utility
- Deployment options
- Deployment security

SSIS Package Management

- The SSIS Service
- Managing packages with DTUtil
- Managing packages with SQL Server Management Studio
- Scheduling packages with SQL Server Agent

SQL Server 2008R2 Analysis Services

What Is Microsoft Business Intelligence?

- Defining Microsoft Business Intelligence
- Viewing a Cube Using Excel
- Using SSAS in BIDS
- Understanding BIDS
- Creating Data Sources
- Creating Data Source Views
- Creating a Cube Using the Wizard
- Refining Dimensions and Measures

Intermediate SSAS

- Creating Perspectives
- Creating Translations

- Working with Multiple Fact Tables
- Using the Business Intelligence Wizard

Cube Storage and Aggregation

- Basic Storage: MOLAP
- Customized Aggregations
- Advanced Storage: MOLAP, HOLAP, or ROLAP
- Implementing Proactive Caching
- Using Partitions: Relational or SSAS
- Cube and Dimensions Processing Options

Introduction to SSAS Clients

- Using Excel 2007 Pivot Tables
- Using SQL Server Reporting Services

SQL Server 2008R2 Reporting Services

SQL Server Reporting Services (SSRS) Architecture

- Report types and formats
- SSRS Web Services
- Report Server
- Report Builder
- Model Designer
- Data sources: SQL Server, Oracle, OLE DB

Authoring Reports

Creating basic reports

- Tabular
- List
- Matrix
- Chart
- Constructing data sources and Datasets
- Inserting a data region, fields and images

Leveraging expressions

- Calculating fields
- Integrating expressions in properties
- Applying conditional formatting

- Adding images

Grouping and sorting data

- Grouping to multiple levels
- Sorting the results
- Employing aggregate functions

Implementing Parameters and Filters

Building parameters into reports

- Returning subsets of data with query parameters
- Mapping report parameters to query parameters
- Building cascading report parameters
- Passing parameters to stored procedures
- Exploiting multivalve parameters

Restricting report data with filters

- Enhancing performance with filters
- Filters vs. query parameters
- Localizing tables and queries

Leveraging Advanced Reporting Features

Combining data regions in one report

- Producing master/detail reports
- Linking sub reports

Presenting data with appropriate detail

- Revealing report detail with drill down
- Displaying related data with drill through

Deploying and Delivering Reports

Deploying reports to the server

- Preparing reports for publishing
- Configuring project properties
- Units of deployment: Individual reports, projects, solutions, data sources

Disclaimer: Yes-M Systems and/or their instructors reserve the right to make any changes to the syllabus as deemed necessary to best fulfil the course objectives. Students registered for this course will be made aware of any changes in a timely fashion using reasonable means.

About Yes-M Systems:

a. Established in 2005 (Atlanta, GA, USA), 10th year in business.

b. A+ accreditation from US Better Business Bureau (http://www.bbb.org/atlanta/business-reviews/internet-consultants/yes-m-systems-in-duluth-ga-27431372)

c. Received the "Best of 2012" and "Best of 2013" awards from US-based Kudzu (http://www.kudzu.com/m/Yes-M-Systems-30363491/reviews/)

d. Trained close to 3000+ students from all over the world.

e. Experienced, passionate and committed trainers

f. IT Training in various technologies including Java, Dot Net, SAP, Oracle, QA, BA etc (See Courses We offer section for more information)

g. Professional guidance/help with resumes and interview preparations.

h. Recruiter help with marketing/jobs
i. Certification at the end of the training.

Courses we offer:

A. QA and BA courses:

■ QA [Quality Assurance or QA Testing]

■ BA [Business Analysis or Business Analyst]

■ QA and BA as a single course (Integrated QA+BA) at a reduced fee.

■ Advanced/specialization courses:

a. 60-hour Selenium course with Core Java

b. ETL Testing

    c. Advanced Mobile Testing

    d. Advanced QTP

    e. Any combination of a, b, c, d.

- Certification QA

    a. QTP

    b. ISTQB

    c. Quality Center

- Healthcare and Finance specialization

    a. Healthcare as a Domain Class

    b. Healthcare BA [Business Analyst with specialization in Healthcare]

    c. Healthcare QA [Business Analyst with specialization in Healthcare]

    d. Healthcare QA [Quality Assurance or QA Testing]

    e. Business analyst with Finance specialization.

    f. Quality Assurance with Finance specialization

B. Java courses:

    a. Core Java

    b. Advanced Java

    C. Combination of Core Java and Advanced Java

D. Microsoft Courses:

    a. Dot Net

    b. Microsoft Business Intelligence [MS BI]
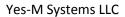
    c. Sharepoint

    d. MS SQL Server

E. SAP Courses:

    a. SAP FICO

    b. SAP MM

    c. SAP HR

    d. SAP BO

    e. SAP BI

    f. SAP HANA

F. Oracle Courses:

    a. Oracle Financial

    b. Oracle DBA

    c. PL/SQL

G. Other Courses:

    a. Hadoop

    b. Hadoop with Java

    c. Salesforce

    d. Project Management (PMP)

    e. Maximo

    f. Tabeau

    g. Informatica

    h. Cognos