



## MSBI

CAC Noida is an ISO 9001:2015 certified training center with professional experience that dates back to 2005. The vision is to provide professional education merging corporate culture globally to the youth through technology resourcing and knowledge consulting with emerging technologies. Quality assurance parameters for each stage of training and development are ensured at all levels. The operating office is solely based Noida (U.P) India.

CAC Noida is the well-known MSBI training center in Noida with high tech infrastructure and friendly environment. We provide hands on practical knowledge and full job assistance with basic as well as advanced level

CAC Noida is one of the best MSBI training institute in Noida with 100% placement record. CAC Noida has well defined courses and modules with training sessions for developers. At CAC Noida, MSBI training is conducted by specialist Trainers having experience of more than 10+ years.

CAC Noida is well-equipped MSBI training center in Noida and we offer job oriented MSBI training program keeping an eye on industry requirements and future prospects. Each and every one who is part of “CAC Noida” is important to us. Every student has the freedom to discuss and learn. We always take care that right student choose right course.

MSBI is the one of high in demand course today and CAC Noida provides practical exposure to all the concepts, contents are well-structured to meet the industry requirements.

We are confident that MSBI training we deliver is at a fantastic standard and are constantly striving to improve and become even better. We believe that MSBI training should be well planned, well prepared, fit for purpose and delivered by trainers who are motivational and inspirational, trainers who can make learning interesting and will make a difference to your people and your organization.

# Business Intelligence Contents

## Data warehousing Fundamentals

### **MSBI Basics**

Introduction to Microsoft Business Intelligence Suite

- Product History
- Architecture Overview

SQL SERVER 2012 Fundamentals

SQL Server 2012 Integration Services (SSIS) Overview

This SSIS training course will enable technology professionals with little or no ETL experience and minimal exposure to SQL Server 2012 and Visual Studio 2012 to be comfortable and productive with the SSIS tools and technologies. In this course you will learn about the SQL Server Management Studio (SSMS) and building Database Maintenance Plans. You will be introduced to the Business Intelligence Development Studio (BIDS/SSDT) and working with Control Flow and Data Flow. You will also become familiar with SSIS



package management and package deployment along with learning to write solid code using debugging, error handling and logging techniques.

## Introduction to SQL Server Integration Services

- SSIS Package Architecture Overview
- Development and Management Tools
- Deploying and Managing SSIS Packages
- Source Control for SSIS Packages

## SSIS for DBAs: Using SQL Server Management Studio

- The Import and Export Wizard
- Importing and Exporting Data
- Working with Packages

## Business Intelligence Development Studio

- Launching BIDS/SSDT
- Project templates
- The package designer
- The Toolbox
- Solution Explorer
- The Properties window
- The Variables window
- The SSIS menu

## 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

## Advanced Control Flow

- Containers – grouping and looping
- The Web Service Task

- The WMI tasks
- The Analysis Services tasks
- The Execute Process Task
- The Execute Package Task

## Introduction to Data Flow

- Data Flow Overview
- Data Sources
- Data Destinations
- Data Transformations
- The Copy Column Transformation
- The Derived Column Transformation
- The Data Conversion Transformation
- The Conditional Split Transformation
- The Aggregate Transformation
- The Sort Transformation
- Data Viewers

## 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
- SSIS debugging windows
- Control Flow: The OnError event handler
- Data Flow: Error data flow



- Configuring Package Logging
- Built-in log providers

## Advanced Data Flow

- Revisiting data sources and destinations
- The Lookup Transformation
- Getting Fuzzy: The Fuzzy Lookup and Fuzzy Grouping Transformations
- The Multicast Transformation
- The Merge and Merge Join Transformations
- The Data Mining Query Transformation
- The Data Mining Model Training Destination
- The Slowly Changing Dimension Transformation

## Extending SSIS through Custom Code

- 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
- Executing packages – DTEXec and DTEXecUI

## SSIS Package Management

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

# Microsoft SQL Server 2012 Analysis Services (SSAS)

In this SSAS training course, you will learn how to use Microsoft SQL Server 2012 Analysis Services (SSAS) to design and implement OnLine Analytical Processing (OLAP) cubes and data mining models to support Business Intelligence (BI) solutions. This SSAS course includes concepts, procedures and practices based on real-world experience giving both the novice and experienced SQL Server 2012 developer the tools to build data warehousing and decision support system solutions.

## What Is Microsoft BI?

- Core concept – BI Example cube as seen using Excel pivot table
- MS BI is comprehensive – more than Analysis Services on SQL Server

## OLAP Modeling

- Modeling source schemas—stars and snowflakes
- Understanding dimensional modeling— Dimensions (Type 1, 2, or 3) or rapidly changing
- Understanding fact (measures) and cube modeling
- Other types of modeling—data mining etc...

## Using SSAS in BIDS/SSDT

- Understanding the development environment
- Creating Data Sources and Data Source Views
- Creating cubes – using the UDM and the Cube Build Wizard
- Refining Dimensions and Measures in BIDS/SSDT

## Intermediate SSAS

- KPIs
- Perspectives
- Translations – cube metadata and currency localization
- Actions – regular, drill-through and reporting

## Advanced SSAS

- Using multiple fact tables
- Modeling intermediate fact tables
- Modeling M:M dimensions, Fact (degenerate) dimensions, Role-playing dimensions, writeback dimensions



- Modeling changing dimensions – Dimension Intelligence w/ Wizard
- Using the Add Business Intelligence Wizards – write-back, semi-additive measures, time intelligence, account intelligence

## Cube Storage and Aggregation

- Basic syntax
- Using the MDX query editor in SQL Server Management Studio
- Most-used Functions & Common tasks
- New MDX functions

## Intermediate MDX

- Adding calculated members
- Adding scripts
- Adding named sets

## SSAS Administration

- Best practices – health monitoring
- XMLA scripting (SQL Mgmt Studio)
- Other Documentation methods
- Security – roles and permissions
- Disaster Recovery – backup / restore
- Clustering – high availability

## Introduction to Reporting Clients

- Excel 2003 Pivot Tables
- SQL RS & Report Builder
- Business Scorecards 2012 & ProClarity

# SQL Server 2012 Reporting Services (SSRS)

## Training Overview

In this SSRS training course, you will learn how to use SQL Server 2012 Reporting Services to create, execute, and manage reports. You will learn how to create tabular, matrix (cross-tab), and chart reports using Visual Studio 2012 and SQL Server 2012 Business Intelligence Studio. You'll explore creating reports with groups, expressions, conditional formatting, and parameters. The reports you create in the course will employ shared data sources, interactive sorting, and drill-down capabilities.



## Introducing SQL Server Reporting Services

- Tour of Features
- Reporting Services Architecture
- Reporting Services Terminology
- Reporting Services Editions
- Taking Reporting Services for a Spin

## Creating Reports

- Deconstructing Reporting Services
- Shared Data Sources
- Creating Reports from Scratch

## Calculations and Formatting

- Creating Expressions
- Using the Global Collections
- Formatting Items
- Conditional Formatting

## Grouping and Sorting

- Creating Groups
- Calculating Totals and Percentages
- Interactive Sorting
- Creating Drill-Down Reports

## Report Parameters

- Creating Report Parameters
- Creating Drop-Down Parameters
- Multi-Valued Parameters
- Debugging Parameter Issues

## Creating Matrix Reports and Charts

- Creating a Basic Matrix Report
- Matrix Subtotals
- Creating a Basic Chart
- Exploring the Charting Possibilities



## Managing Reporting Services

- Deploying Reports and Data Sources
- Exporting Reports and Printing
- Using the Web-Based Report Manager
- Using SQL Server Management Studio-based Reporting Services Manager

## Reporting Services Security

- Two Parts to Reporting Services Security
- Securing Access to Reports
- Data Source Security

## Ad-Hoc Reporting with Report Builder

- The Report Builder Architecture
- Creating Report Model Projects
- Running Report Builder

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