

# SAP BO/BI Course Content

## **Module -1: Data warehousing/Dimensional modeling/ SAP BW 7.3 Concepts**

- OLTP vs. OLAP
- Types of OLAP
- Multi-Dimensional Modeling Of SAP BW 7.3
- SAP BW 7.3 Cubes, DSO's ,Multi Providers, Infosets
- Business Explorer (Bex) Queries in BW 7.3 system as Data sources
- Data Flow in BW 7.3 and Activating Business Content Cube

## **Module -2: Database Concepts needed for Data warehousing**

- Joins & Cardinality
- Views/Materialized Views
- Date/Time Functions

## **Module -3: BOBI 4.1 Architecture**

- Architectural overview
- Client tier components
- Application tier components
- Intelligence tier
- Processing tier
- Data tier
- Security management
- Information

## **Module -4: Information Design Tool (IDT)**

- Understanding Business Objects Universes
- Creating the Course Universe
- Building the Universe Structure
- Creating Dimension Objects
- Creating Measure Objects

- Resolving Loops in a Universe
- Resolving SQL Traps
- Using List of Values
- Applying Restrictions on Objects
- Using @Functions with Objects
- Using Hierarchies
- Deriving Tables & Indexes
- Working with Aggregate Awareness
- Designing Advanced Objects
- Creating Predefined Condition
- LOVs & Joins
- Securing Universes
- Implementing Universe Life Cycle Mgmt
- Maintaining & Optimizing Universes
- Creating Universe from Other Data sources
- Designing Universes on SAP HANA tables and views
- Designing Universes on SAP HANA for COPA scenario, Sales Scenario, Procurement Scenarios

## **Module -5: Universe Designer Tool (UDT)**

- Understanding Business Objects Universes
- Creating the Course Universe
- Building the Universe Structure
- Creating Dimension Objects
- Creating Measure Objects
- Resolving Loops in a Universe
- Resolving SQL Traps
- Using List of Values
- Applying Restrictions on Objects
- Using @Functions with Objects
- Using Hierarchies
- Deriving Tables & Indexes
- Working with Aggregate Awareness
- Designing Advanced Objects
- Creating Predefined Condition
- LOVs & Joins

- Securing Universes
- Implementing Universe Life Cycle Mgmt
- Maintaining & Optimizing Universes
- Creating Universe from Other Data sources
- Designing Universes on SAP HANA tables and views
- Designing Universes on SAP HANA for COPA scenario, Sales Scenario, Procurement Scenarios

## **Module -6: Web intelligence**

- Understand concepts of Web intelligence
- Create Web Intelligence documents with Queries
- Restrict data returned by a query
- Design a report
- Enhance the presentation of data in reports
- Creation of Web intelligence report with auto scheduling
- Creation of Corporate dashboard for Supply chain mgmt/Banking Domain
- Format a report
- Calculate data with formulas and variables
- Use multiple data sources
- Analyze data
- Manage and share Web Intelligence documents
- Work with Advanced Query techniques
- Work with calculation contexts
- Create formulas with character & date string functions
- Use "If" logic
- Work with additional reporting techniques
- Create hyperlinks
- Designing Webi reports Based on BEX query as Source.
- Designing Webi Reports Based on SAP HANA UNX universes.

## **Module -7: Crystal Reports 2011**

- Planning a Report
- Selecting Records
- Formatting a Report

- Representing Data Visually
- Distributing Reports
- Creating Basic Formulas
- Organizing Data on a Report
- Applying Section Formatting
- Applying Conditional Reporting
- Using the Repository
- Using Report Templates
- Creating Formulas
- Building Parameterized Reports
- Summarizing Data with Cross-Tabs
- Using Report Sections
- Managing Reports
- Presenting Data Visually
- Add hyperlinks to a report
- Depreciation Forecast.
- Designing Crystal reports i reports Based on BEX query as Source
- Designing Crystal reports Reports Based on SAP HANA UNX universes

## **Module -8: Dashboard Design Tool**

- Creating a Model
- Adding Interactivity to a Model
- Creating a Connected Model
- Connect to Crystal Reports data and create Dashboard
- Connect to Web intelligence report data
- Create Dashboard
- Connect to Business Objects Universes
- Using Query as a web service and create Dashboard
- Use Live Office data and create Dashboard
- Use other connectivity components and create Dashboard
- Designing Dashboard reports Based on BEX query as Source using QUERY BROWSER
- Designing Dashboard reports Based on SAP HANA UNX universes QUERY BROWSER

## **Module -9: Query as Web service**

- Configuring the QWS with BO System
- Creating Webservice report from Universes
- Creating WSDL reports
- Using WSDL reports in external application

### **Module -10: BO Analysis 4.1**

- Get Started with Business Objects Analysis BW 7.3, SAP HANA as Source.
- Creating Analysis Workspace using OLAP EDITION, BO analysis MS EXCEL,MS PPT.
- Using Charts to Visualize Data
- Selecting Members to Display in Crosstabs and Charts
- Sorting, Filtering, and Ranking Data
- Highlighting Exceptions

### **Module -11: BO Explorer 4.1**

- Creating Information Spaces based on SAP HANA Analytical view, Spread sheets, UNX Universes.
- Exploring the data Based on Information Spaces.

### **Module -12: Widgets**

- Installing BI Widgets
- Using BI Widgets to Access BI Content
- Working with widgets
- BI Widgets Content Authoring Guidelines
- Auto refresh of Widgets

### **Module -13: Administration**

- Understand the Business Objects
- Enterprise interface & architecture
- Manage Business Objects Enterprise content
- Secure Business Objects Enterprise content
- Secure application security
- Schedule content
- Publish report

- Identify Business Objects Enterprise architecture
- Perform common server management tasks
- Manage the Business Objects Enterprise servers

### **Module -14: Security Implementation**

- Creating Secured users & group
- Creation secured connections
- Creation of Secured objects
- Creation of security at Table, Column & row level
- Creation of secured restriction set and mapping to users or groups

### **Module -15:OLAP Universe**

- Creation of OLAP Universe by connecting to an Info cube
- Updating the OLAP Universe (Cube)
- Creating the Custom Hierarchies in OLAP Universes.
- Accessing multiple info cubes to create an OLAP Universe

### **Module -16: Live Office Reporting**

- Describe the benefits of using Live Office
- Connect to the repository
- Navigate the Live Office menu
- Insert charts, crosstabs, and fields from a Crystal report
- Insert report parts from a Web Intelligence document
- Insert a new query based on a Universe
- Insert Live Office objects into an email
- Navigate and refresh Live Office objects
- Enable consolidated prompts
- Set refresh settings for objects
- Set parameter binding
- Take a snapshot
- Save Live Office documents to the repository
- Open and view Live Office documents from the repository

### **Module-17: BO-SAP Integration/Edge Series**

- Understanding BO-SAP Integration kit
- Configuring single sign on authentication
- Creating SAP Authentication in BO
- Importing the roles of SAP into BO
- Entitlement settings of SAP & BO System

### **Module-18: SAP Webi/Dashboard Reporting**

- Creation of Web intelligence reports using Info cube & BW Query

### **Module -19:Installation of BOXI 4.0 suite with System/Audit/Performance mgmt Polestar/Business Explorer**

- Creating Polestar Reports
- Configuring Pole star with BO System

### **Module -20: PROJECTS**

- Creation of Universe from scratch (Manufacturing Domain)
- Creation of Universes for COPA SENARIO (Finance) SAP HANA as Source.
- Creation of Universes for SALES SENARIO SAP HANA as Source.
- Creation of Universes for PURCHASE ORDERS SENARIO SAP HANA as Source.
- Creation of Web intelligence report with auto scheduling
- Creation of Corporate dashboard for Supply chain mgmt/Banking Domain