

SAP BW / BI Course Content

PART – 1

ERP & SAP Overview

- Introduction to ERP & SAP
- ERP System & its Specification
- Types of ERP Package
- SAP R/3 Architecture
- SAP Landscape
- Software Oriented View
- Advantage of Multi-tier Architecture

SAP Net Weaver and BI: Overview and Fundamentals

- SAP NetWeaver Business Intelligence: Data Warehousing Overview
- Fundamentals of Data Warehousing and Data Mining.
- SAP NetWeaver Business Intelligence (BI) Overview.
- Overview of SAP R/3 Types of Applications
 - Online Transaction Processing (OLTP)
 - Online Analytical Processing (OLAP)
- Standard naming conventions in SAP & BI.
- Exploring the system Environment as a beginner: Logon, Navigation, Transaction Codes, Business Content and Metadata Repository, System Landscape.

Objects in the BI Data Warehouse Layer

- Data Warehousing Workbench.
- InfoProviders: Business Purpose.
- Star Scheme Concepts.
 - Classical star schema.(DW)
 - Extended star schema.
- Modeling & Extraction Objects
- Info area
- Info objects catalogs
 - Characteristics

- Key Figures
- Info objects
- Data source
- Source system
- Application component
- Transfer rules
- Routines
- Info providers
- Data targets

Data Acquisition and Transformation from Non-SAP Systems

- Data Acquisition Flow: Overview
- Loading Master Data from an Non-SAP Source System
- Loading Transaction Data from an Non-SAP Source System
- ETL Processes Overview.
- Extraction Process: Persistence Staging Area (PSA).
- Transformation Rules :-
 - Direct Assignment
 - Constants
 - Formula
 - Routines
 - Read Master Data
- Data Transfer Process (DTP).
 - Full Load
 - Delta Load

Data Acquisition from Other Systems

Extraction from Non-SAP Systems: Overview

- Flat File Loading

InfoProviders

Info-cubes

- Data Store Objects(DSO): Definitions & types
- Virtual-Providers and Real-Time Data Acquisition
- Multi-Providers and BI InfoSets
- Info-cube V/S DSO.
- Infosets
- Infoset V/S Multi-provider.

Delta Management

- Delta Management: Overview
- Update Mode and Delta Process
- Examples from Applications / Source Systems

Open Hub Destination Service

- Introduction to the Open Hub Service
- Implementing the Open Hub Service

Generic Extraction (SAP ECC to SAP BI)

- Overview of SAP ECC System
- Concepts of functional modules & database tables of ECC System
- Steps for Generic Extraction to fetch data from database tables to BI system.
- Remote Function Call (RFC) Connection.
- Various types of R3 Extractors

SAP Business Intelligence - Reporting & Analysis

Business Explorer (BEx) Query Designer

- InfoProviders in the BEx Query Designer
- Rows
- Columns
- Conditions
- Formula
- Calculated Key Figures
- Restricted key figures
- Exceptions
- Filters
- Free characteristics
- Structures

Business Explorer (BEx) Query Analyzer

BEx Analyzer

Information Broadcasting

- Information Broadcasting Overview
- BEx Broadcaster concept.

Written Test, Presentation & Mock Interview

PART – 2

Standard Extraction Processes (SAP to SAP)

- Logistic Extraction (LO Extraction)
 - Overview of LO Extraction
 - Flow of LO Extraction
 - Standard Data sources of functional modules
 - Loading Master data from ECC
 - Delta Management

 - Controlling – Profitability Extraction (CO-PA Extraction)
 - Overview of CO-PA Extraction
 - Flow of CO-PA Extraction
 - Standard Data sources of functional modules
- Business Content
 - BI Content Discovery (Metadata Repository) Business Contents
 - Activating the Business content
- How to install

Process Chains Management (PCM)

- Understanding use of Process Chain Managements
- Data flow of InfoProviders and integration.
- Creating Process Chains.
- Scheduling & automating Process Chains
- Monitoring of Process Chains & DTP.
- Resolving errors and rectifying issues of data modeling & ETL process

Performance Tuning

- How to perform and enhance the performance at various stages :
- Data modeling level
- Selection of appropriate InfoProviders
- Re-modeling
- Cube-partitioning
- Aggregates
- ETL Process
- Reporting Level
- Process Chain Management
- Delta Load Management
- Data Source Management

Administration of Data Targets

- System Administration Tasks in BI: Overview
- Administration of InfoCubes
- Administration of Data Store Objects
- Security and authorization of various processes, InfoProviders & reports in BI.
- User Maintenance & Profile Generation

Life Cycle Implementation of SAP

- Functional requirements
- Technical requirements
- Business Blue Prints
- Gap analysis
- Business Process Re-Engineering
- SDLC / Implementation / Support

Miscellaneous Topics

- Correction & Transport request (CTS)
- Real Time Scenario
 - Product Issues
 - Ticket Handling
 - Ticket tool tracker
 - Error handling
- Transport Organizer & Work Bench Request ID's
- Release Objects
- Package Maintenance & Transferring Objects from Local Objects.

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- SD Module Flow
- MM Module Flow

Written Test , Presentation & Mock Interview

Interview Orientation and Resume Preparation