

Part I: Basics of Business Warehousing

This part of the course gives a complete understanding of how SAP BI works, how data is brought into SAP BI System from various sources like R /3 (or now called ECC 6.0) and Flat files and the organization of different components of SAP BI. It lays a firm foundation for anyone to start off on a SAP BI assignment and enforce their learning further on the job through largely self learning

Basics of Data warehousing and Multi-Dimensional Modeling

Data Warehousing

- Understanding the Definition of Data Warehouse
- Key steps performed in the Data Warehouse
- Components of Data Warehouse
- Understanding Different Schemas (Star Schema, Snow Flake Schema etc)
- In depth understanding of Extended Star Schema

Introduction to SAP BI System

- Architecture of SAP BI System
- Getting acquainted with SAP GUI 7.10 (Graphical User Interface)

Modeling Meta Data Objects

Master Data Objects

- First and Foremost thing to understand “**What is Master Data and How it looks, example?**”
- Info Objects and Types
- Master Data Info Objects
- Organizing InfoObjects across different InfoAreas and Catalogs
- **Master Data DataSource** : Understanding What it is and learning How to create
- Identifying various objects involved in the DataFlow and learning how to create them
- Understanding Attribute, Text and Hierarchy Data DataFlows to Master Data InfoObject
- To Begin with : Learn how to extract data from FlatFile to InfoObjects
- InfoPackage Creation and Data Transfer Process

Transaction Data Objects

- Again Understand “**What is Transaction Data and How it looks, example?**”
- Different Data Targets where Transactions Data is Stored (DSO and InfoCubes)
- Multi-Dimensional Modeling and InfoCubes
- Designing the InfoCubes
- To Begin with : Learn how to extract Transaction data from FlatFile to InfoCubes
- Transaction Data DataSource
- Identifying various objects involved in the DataFlow and learning how to create them
- In BI 7.0, InfoSource is Optional???
- Learn Different Scenarios where InfoSource is necessary.
- InfoPackage Creation and Data Transfer Process

- Another Data Target for Transaction Data, **its DataStore Object**
- **DSO**: Learn how it is different when compared with InfoCubes.
- Learn Creation and understand working of DSO
- Understanding the Position of DSO in the Transaction Data DataFlow.

Other BI 7.0 specific topics

- **Remodeling Toolkit:** What it is and How to use it?
- InfoCube with Direct Data Access.

Part II. Reporting- The Purpose of SAP BI

This part of the course gives an overview knowledge, understanding of how reports are built, how query creation is dependent on DSO and InfoCube Design, and on Multi-Cubes. This intensive program on “**Reporting**” provides knowledge of real time SAP BI experience which would take anyone at least Six Months to gain the same Expertise. **Business Explorer** is the tool which is of major focus of Part II

Reporting in SAP BI using **BEx Analyzer**

- A must learn tool : **Query Designer**
- Query Designer, tool to build and Execute Queries.
- Getting Started: Create a Sample Query!
- **WorkBook?** - The place where the result of the Query is displayed.
- Getting the basic difference between Query and a WorkBook.
- What is View? And how View is different to Query.
- Learn various options of Query Designer.
- Want to restrict the report data? Understand Filters, Conditions, and Variables.
- Formulas
- Calculated Keyfigures
- Restricted Keyfigures
- Selections
- Free Characteristics
- Exceptions
- Formatting, Graphs and Charts in Queries
- Web Application Designer.
- Query Performance and Tools
- Third Party OLAP Tools and SAP BI

Part III Curriculum: Data Extraction into Business intelligence System from SAP R 3 (Or ECC 6)

- **Business Content:** Learn how to activate and explore various predefined objects provided by SAP.
- **LO Extractors:** All Logistics data can be extracted using these extractions. Understanding various objects in the Data Flow designing, enhancing the data flow objects etc.
- **Generic Extraction:** Learn how to extract data from custom tables where SAP cannot provide Standard Extractors.
- Understanding **DataSource Enhancements**
- **Performance Tuning techniques:** How to improve Data Loads Performance and Query Performance.