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SAP ABAP

Introduction to ERP:

- What is ERP?
- Why we need ERP?
- Advantages of ERP
- Major ERP Packages

Introduction to SAP & R/3 Architecture:

- What is SAP?
- History & Features of SAP
- SAP R/2 Architecture (Limitations of R/2 Architecture)
- SAP R/3 Architecture (Types of work processes)
- SAP R/3 Application Modules
- SAP Landscape

Introduction to ABAP/4:

- What is ABAP?
- Logon to SAP Environment
- Transaction Codes
- Multitasking Commands
- Comments
- Errors
- ABAP/4 Editor (SE38)
- Steps for Creating a Program
- Elements in R/3 Screen
- Out put Statements
- Operators in ABAP
- Data, Parameter & Constant Statements
- Data Types & Classification
- Data Objects & Classification
- Text Elements
- String Operations
- Control Statements

- Field strings

ABAP Dictionary:

- ABAP Dictionary Introduction
- Data Dictionary Functions
- Data Dictionary Objects
- Data Base Tables
- Structures
- Views
- Data Elements
- Type Groups
- Domains
 - Search helps
 - Lock objects
- Primary Key And Foreign Key
- Table Maintenance Generator

Packages:

- Creating a package
- Difference between local objects & packages
- Transferring local objects to packages

Variants:

- Variants Introduction
- Creating variants in ABAP Editor & Data Dictionary

Message Classes:

- Message Class Introduction
- Message types
- Calling message class in Report & Dialog programs

Selection Screens:

- Selection screen Introduction
 - Parameter Statement
 - Select-options Statement
 - Selection-screen Statement
- Screen table and its fields
- Dynamic screen modification by using Modified key

Open SQL Statements:

- Select
- Insert
- Modify
- Update
- Delete

Internal Tables:

- Internal Tables Introduction
- Declaring Internal Table
- Populating Internal Table
- Processing Internal Table
- Initializing Internal Tables
- Inner Joins And For All Entries
- Control Break Statements

Debugging Techniques:

- Debugging Techniques Introduction
- Break-points (Static & Dynamic)
- Watch points
- Dynamically changing internal tables contents in Debugging Editor
- Options to step through the program in Debugging Editor

Modularization Techniques:

- Modularization Techniques Introduction
- Includes
- Subroutines
- Passing Parameters to Subroutines
- Passing Tables to Subroutines
- Function Groups & Function Modules

Reports:

- Reports Introduction
- Classical Reports
- Interactive Reports
- Techniques Used For Interactive Reports
- Hotspot
- Hide
- Get Cursor

Dialog / Module Pool Programming/ Transactions:

- MPP Introduction
- Relationship between Screen, Flow Logic and Program
- Flow Logic Events
 - Process Before Output (PBO)
 - Process After Input (PAI)
 - Process On Value Request (POV)
 - Process On Help Request (POH)
 - Include Programs in MPP
- Include TOP
- Include I01
- Include O01
- Include F01
- Dynamic Screens
- Leave Screen
- Leave to Screen
- Call Screen
- Set Screen
- Processing of List from Transaction and Vice Versa
- Elements in Screen Layout
 - Table Controls
 - Step Loops
 - Tabstrip Controls

Batch Data Communication:

- BDC Introduction
- Recording
- BDC Methods
- Call Transaction Method
- Session Method
- Handling Table Controls in BDC
- Legacy System Migration Workbench
- Different Methods
- Flat file creation
- Uploading data
- File Handling
- Application Server
- Presentation Server
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SAP Scripts:

- SAP Scripts Introduction
- Components of SAP Scripts

- Layout Set
- Standard Text
- Out Put Program
- Modifying Standard SAP Script Layouts
- Including Logos
- SAP Script Utilities – Upload / Download

Smart Forms:

- Smart Forms Introduction
- Graphics Management
- Style Maintenance
 - Paragraph Formats
 - Character Formats
 - Writing print program and designing layouts

ALV Reports:

- ALV Reports Introduction
- ALV through Function Modules
- ALV Types

Runtime Analysis & SQL Tracing

Cross Applications:

- Introduction to Distributed Environment
- Introduction to Cross Applications

RFC:

- Introduction to RFC
- Creating RFC Destination between 2 Systems
- Creating Remote Enabled Function Modules
- Creating program using Remote Enabled Function Modules

ALE:

- ALE Basics
- Overview of Outbound & Inbound Process
- Configuration Steps
- Define logical systems
- Assign client to logical system
- RFC destination
- Customer distribution model
- Creating Port

IDocs:

- What is an Idoc?
- Types of Idocs
 - Basic Idocs
 - Extension Idocs

- Assigning Idoc type to Message type

EDI:

- EDI Basics
- Difference between ALE & EDI
- Overview of Outbound & Inbound Process
- Configuration Steps
- Port Creation
- Partner Profile Creation

BAPIs:

- BAPI Overview
- Creation of BAPI

Workflow:

- What is workflow?
- Overview of workflow
 - Field Exit
 - Screen Exit
 - Function Exit
 - Menu Exit

BADIs:

- BADIs Overview
- Defining a BADI
- Implementing a BADI

OOPS Concept:

- Object Oriented ABAP Overview
- Defining a Class
- Implementing a Class

Miscellaneous Topics:

- Correction & Transport request (CTS)
- Transport Organizer
- Work Bench Request

- Task Creation
- Release Objects
- SAP Memory & ABAP Memory
- Logical Database
- SD Flow
- MM Flow