

SAP- ABAP (ADVANCED BUSINESS APPLICATION PROGRAMMING)

Introduction

- ❖ ERP Overview
- ❖ Business Process in Enterprise
- ❖ Various ERP Packages
- ❖ About SAP
- ❖ Features and advantages of SAP
- ❖ Technical Features of SAP

Architecture of R/3 System

- ❖ Client/Server Architecture
- ❖ Two-tier Vs Three tier Environments
- ❖ Multi tier Architecture
- ❖ Login & Logoff Procedure
- ❖ Navigation
- ❖ Introduction to SAP screen environment

Components of ABAP Dictionary

- ❖ Database Tables
- ❖ Data Elements
- ❖ Domains
- ❖ Structures
- ❖ Views: Database View, Projections View, Help View, Maintenance View
- ❖ Table Types
- ❖ Type Groups
- ❖ Search Help: Elementary and Collective
- ❖ Lock Objects

ABAP Programming

- ❖ Introduction to ABAP Editor
- ❖ ABAP Programming Features
- ❖ Keywords
- ❖ Data Types and Data Objects
- ❖ Operators
- ❖ String Handling
- ❖ Conditional Statements and Looping Structures
- ❖ Field Symbols
- ❖ ABAP Development Workbench
- ❖ Package Builder

ABAP Database Access

- ❖ Open SQL
- ❖ Definition & Creation of Internal Tables
- ❖ Different Internal Table Types
- ❖ Different Operations on Internal Tables
- ❖ Control Level Processing
- ❖ Events and Joins

Modularization Techniques

- ❖ Includes
- ❖ Subroutines: Types, Pass by value, pass by reference, pass by value and reference

- ❖ Function Modules, Exception Handling

Open SQL and Additional Topics

- ❖ Different Select Statements
- ❖ Different Write Formats
- ❖ Message Class
- ❖ Selection Screen Designing
- ❖ Inter programming Communication

List Generation Techniques

- ❖ List Requirement & Introduction
- ❖ Classical List
- ❖ Interactive List
- ❖ Abap List Viewer
- ❖ Logical Database

Performance Analysis

- ❖ Reporting Standards
- ❖ Extended Program Check
- ❖ Debugger
- ❖ Runtime Analysis
- ❖ SQL Trace
- ❖ Code Inspector
- ❖ Advisable Select Statements
- ❖ Performance Factors on Database
- ❖ Tables and Internal Tables

The Workbench Organizer Transport System

- ❖ Change Request Version Management
- ❖ Releasing Tasks and Releasing Request
- ❖ Transport

Dialog Programming

- ❖ Introduction
- ❖ Screen Painter
- ❖ Menu Painter
- ❖ Table Control
- ❖ Tab strip Control
- ❖ Field Validation
- ❖ Calling Screen Sequence
- ❖ Changing Screen Attributes Dynamically

Data Migration Techniques

- ❖ Requirement
- ❖ Direct Input Method
- ❖ Background Processing
- ❖ Conversion
- ❖ Interface Programming Using BDC Call
- ❖ Transaction and Session Method
- ❖ Recording Method
- ❖ Data Sets (Application Server File Handling)
- ❖ Legacy System Migration Workbench (LSMW)

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Smart Forms

- ❖ Designing Custom Smart forms
- ❖ Form Painter
- ❖ Table Painter
- ❖ Field List
- ❖ Style Builder
- ❖ Text Modules
- ❖ Print Program

Overview of Interactive Forms by Adobe

Object Oriented ABAP

- ❖ Introduction
- ❖ Keywords
- ❖ Class Builder
- ❖ Objects
- ❖ Local and Global Class Creation
- ❖ Object Handling
- ❖ Methods
- ❖ Abstraction, Encapsulation
- ❖ Inheritance, Polymorphism
- ❖ Event Handling
- ❖ Interface

Enhancements

- ❖ Requirements
- ❖ SMOD / CMOD
- ❖ Function Exit
- ❖ Menu Exit
- ❖ Screen Exit
- ❖ Text Enhancement
- ❖ Table Enhancement

Business Add Ins

- ❖ Introduction to BAdIs
- ❖ Difference between Customer Exists and BAdIs
- ❖ Implementation of BAdIs
- ❖ Function Implementation
- ❖ Screen Implementation
- ❖ Menu Implementation
- ❖ Definition of new BAdIs

CROSS APPLICATIONS

Introduction to Distributed Database Environment

- ❖ Introduction to Cross Application Architecture
- ❖ Preparing RFC (Remote Function Calling) Destinations
- ❖ Develop and call Remote Functions
- ❖ Working with RFC function modules

IDOC Interface

- ❖ Basics
- ❖ Architecture

- ❖ Segment Creation
- ❖ Idoc Creation
- ❖ Logical Messages
- ❖ Processing Idoc
- ❖ Monitoring
- ❖ Documentation
- ❖ Need in ALE, EDI and BAPI
- ❖ Programming Idoc's
- ❖ Customer Modifications to the Idoc Interface
- ❖ Extending and Developing a Basic IDOC Type
- ❖ Programming in the IDoc Interface
- ❖ Customizing the Interface for New or Extended IDocs.

Remote Function Call (RFC)

- ❖ Introduction
- ❖ Preparing RFC Destinations
- ❖ Develop and call Remote Functions
- ❖ Types of RFC
- ❖ Synchronous RFC
- ❖ Asynchronous RFC
- ❖ Transactional RFC.

Application Link Enabling (ALE)

- ❖ Introduction,
- ❖ Concepts of data and process distribution
- ❖ Reasons for data and process distribution
- ❖ ALE Concepts and Features
- ❖ ALE Technology
- ❖ ALE Components for Outbound Process
- ❖ ALE Components for Inbound Process
- ❖ Configuring ALE
- ❖ Testing ALE

Electronic Data Interchange (EDI)

- ❖ Introduction,
- ❖ EDI Standards,
- ❖ History of EDI,
- ❖ EDI Benefits
- ❖ Configuring and Testing EDI in SAP

Business Application Programming Interface (BAPI)

- ❖ Business Framework Architecture
- ❖ Introduction to BOR,
- ❖ Creating BAPI, R/3 to R/3, VB to R/3 using Bapi, Java to R/3 using Bapi.
- ❖ Reporting Using Bapi
- ❖ Data Upload Using Bapi Structures
- ❖ Working with BAPI Explorer

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