

Syllabus of SAP ABAP

Introduction to ABAP/4

- What is ABAP?
- Logon to SAP Environment
- Differences between Practice and Live Systems
- ABAP Work bench
- Transaction Codes
- Different Work bench tools
- Object Navigator
- Types of Objects and Packages

ABAP Dictionary (DDIC)

- ABAP Dictionary Introduction
 - Types of tables
 - Data types
 - Domain
 - Data element
 - Steps to create the table
 - Structure
 - Views
 - Lock objects
 - Search Helps

Fundamentals in ABAP

Data Types, List Format, Different Operations and Functions:

- ABAP Editor and different types of Programs
- REPORT statement and its additions
- Execution and Rename the Program
- Mathematical Operations- Addition, Subtraction, Multiplication, Division, Division Reminder
- Useful String Operation - STRLEN, CONCATENATE, SPLIT, FIND, SHIFT, CONDENSE
- REPLACE, TRANSLATE
- Differences between LIKE and TYPE statements

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- MOVE statement
- Useful System Fields
- Text symbols and CONSTANTS
- Differences between hard coded texts and Text Symbols
- PARAMETERS statement and its useful additions

Internal Tables

1. Introduction & Purpose of Internal Tables
2. Declaring internal tables
3. Types of internal tables

Reports

- Reports Introduction
- Different types of Reports

ALV Reports

Using the standard ALV function Modules- Normal ALV

- ALV Reports Introduction
- Different type of ALVs
- ALV List
- ALV Grid and Interactive ALV
- Useful types in type group SLIS
- Different ways to populate ALV events

ABAP Queries

- Definition
- User Group, Info sets and Queries
- Change the selection screen fields position in the queries

Debugger

- Usage of Debugger
- Different Types of Break Points
- Watch points
- Set/Delete the break points in the debugger

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- Functions key to be used in the debugger
- Change the data variable values in the debugger
- Useful functions in the new debugger-Go to statement and Source code
- Change and Append the data into an Internal table in the debugger
- Debug the Background Jobs

Modularization Techniques

- Modularization Techniques Introduction and Different Modularization Techniques

Includes

- Different ways to create an Include Program
- Reusability of an existing Include program

Subroutines

- Internal and External sub routines
- Global and Local data
- Development standards and Naming conventions in Projects

Function Groups & Function Modules

- Different types of Function Modules
- Function Group
- Different Include programs in the Function Group
- Creation of Normal function Modules with all the parameters-IMPORT, EXPORT, CHANGING, TABLES and EXCEPTIONS
- Execution of the Function Module Independently
- Ways to find the Function Modules

Message Classes

- Usage of Messages
- Different Types of Messages
- Usage of constants, Text Symbols and Selection texts

Dialog / Module Pool Programming/ Transactions

- Different screen elements in the screen painter
- Screen Attributes

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- Relationship between Screen, Flow Logic and Program
- Flow Logic Events and usage in the screens
- Process Before Output (PBO) □ Process After Input (PAI) □ Process On Value Request (POV)
□ Process On Help Request (POH)

Data Conversions/ Data Migrations

LSMW

- Usage and Functionality
- Location to write ABAP code

Batch Data Communication

- Introduction and Usage
- Different Process and Update Modes
- BDCDATA and BDCMSGCOLL structures
- Differences between session and call transaction methods
- Differences between LSMW and BDC

SAP Script Forms

- SAP Scripts Introduction
- Functionality of SAP Script forms
- Print Program and Useful Functions
- Components of SAP Scripts
- Layout Set-Header, Pages, Windows, Page Windows, Paragraph Formats and Character Formats
- Why sap script forms are client dependent
- Different ways to debug SAP script forms
- SAP Script Utilities - Upload / Download

Smart Forms

- Smart Forms Introduction
- Functionality of Smart forms
- Why smart forms are client independent
- Different ways to debug smart forms
- Smart forms execution with or without using the print program
- Download and Upload smart forms
- Migrate Script form into smart form

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- Forms (Script/smart form) execution through an output type using NACE

Enhancements

Customer Exits

- User exits
- Different types of customer exists-Field Exits, Function Exits, Menu Exits and Screen Exits
- Different ways to find the Exits
- Importance of SMOD and CMOD Transaction codes
- Differences between User Exits and Customer Exits

BADIS:

- Different types of BADIs-Classic, Kernel, Filter dependent, Single and Multiple Use BADIs
- Uses of BADI and Different ways to find the BADIs
- Usage of Fallback class
- Differences between Exits and BADIs

Enhancement Frame work or Enhancement Points:

- Different types of frame works
- Implicit Framework
- Explicit frameworks

Business transaction Events-BTE:

- Different ways to find BTES
- Usage of BTES

User Exit

- Find User exits
- Implement User Exits without using Access Key

OOABAP-Object Oriented ABAP

- Uses of OOABAP
- Features of OOABAP
- Object and Class
- Different types of classes-Local, Global classes, Friend class and Final class
- Differences between Local and Global class

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- Abstraction, Encapsulation, Polymorphism and Inheritance
- Interfaces
- Creation of T-code for OOABAP programs
- Different types of visibility sections-Private, protected and Public

Cross Applications

ALE and IDOCs

- ALE Basics and Uses of ALE and IDOC
- Differences between ALE and EDI
- Overview of Outbound & Inbound Process
- IDOC Structure-Control, Data and Status Records

S4HANA Overview

Diff b/w ECC & HANA

Inline declarations

New syntaxes in SAP ABAP from 7.4

SLIN Check, ATC Check, Performance review, code review

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