



SAP ABAP Topics

Basics of SAP & ABAP

- Basic SAP GUI Navigation
- Short introduction to SAP NetWeaver
- Navigating in SAP systems
 - o Logon and structure of the user interface
 - o Accessing functions in the system
 - o Personalization options
- SAP NetWeaver Application Server architecture
 - o Processing a user query
 - o Structure of an instance
 - o Work process types, server processes and their use
 - o Internet-based technology components:
- Overview of the SAP development environment
 - o Creating and editing Repository objects
 - o Transports between SAP systems
- Communication and integration technologies
- Introduction to SAP system administration

ABAP Workbench Fundamentals & ABAP Dictionary

• ABAP Workbench

- o Create ABAP programs and the most important Repository objects
- using appropriate ABAP Workbench tools
- o Navigate in the Workbench and use the syntax help
- o Process source text with the ABAP Editor
- o Test programs using the Debugger
- o Project-oriented development using the Transport Organizer
- o Overview of important ABAP statements
- o Define elementary and structured data objects
- o Working with internal tables
- o Use function groups and function modules
- o Use of classes, methods and BAPIs
- o Database dialogs: information about database tables in the ABAP Dictionary, read database tables
- o User dialogs: list, selection screen, screens. ABAP Web Dynpro (from SAP NetWeaver 7.0)
- o Overview of the different options for adapting software

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• ABAP Dictionary

- o Terms and functions of the ABAP Dictionary
- o Type definitions in the ABAP Dictionary
- o Tables incl. includes and appends
- o Performance aspects when accessing tables:
 - Buffering
 - Indexes
- o Relationships between tables:
 - Define and manage foreign keys
 - Text tables
- o Dependencies between objects in the ABAP Dictionary
- o Views and append views
- o Search help and append search help

ABAP Reports & Screens Development

- o ABAP Reports
 - Data retrieval:
 - Selection screens
 - Logical databases
 - Open SQL
 - Programming with the SAP list viewer (ALV):
 - Using the ALV for displaying tables
 - Starting ALV basic functions from the application
 - Adjusting the layout
 - Using display variants
 - Processing user actions
- o Screen Development
 - Principles and ergonomics of user dialogs
 - User interface and Menu Painter
 - Screen objects: attributes, implementation, and processing
 - Screen Painter
 - Text fields, frames, status icons, input/output fields,
 - dropdown list boxes, pushbuttons, checkboxes, radio
 - button groups, subscreens, tabstrips, table controls
 - Context menus

Enhancements & Modifications

- o Overview of the options for making customer-specific adjustments to the SAP sta
- o Personalization (transaction variants)
- o Enhancements to:
 - Elements of the ABAP Dictionary
 - SAP programs
 - SAP screen menus
 - SAP screens
- o Enhancement techniques:
 - Enhancements to elements of the Dictionary
 - Customer Exits
 - Business Transaction Events (BTEs)
 - Business Add Ins (BAIs)
 - User Exits
- o Modifications:
 - Procedure
 - Utilities (Modification Assistant, Modification Browser)
 - Modification adjustment

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BAPI Development

Business Application Programming Interface

- o BAPI fundamentals
- o Finding and using SAP supplied BAPIs
- o Creating customer specific BAPIs
- o BAPIs and RFCs
- o Enhancements and modifications of SAP supplied BAPIs
- o BAPIs and ALE

Performance Tuning & Advanced ABAP

• ABAP Performance Tuning

- o Individual object analysis: transaction step analysis, SQL performance analysis, ABAP runtime analysis, ABAP Debugger, optimizing database accesses
- o Unsuitable access path: introduction to database indexes; create, change and delete database indexes; DB views or ABAP joins and database indexes; Open SQL statements and database indexes
- o Suitable access paths: accessing individual tables, accessing multiple tables, accessing pool and cluster tables, SAP table buffering
- o Optimized use of internal tables: design and definition of internal tables, efficient structure, efficient access, applications
- o SAP system analysis – overview
- o SAP workload analysis (transaction profiles)

• Advanced ABAP

- o ABAP runtime environment
- o Program calls and memory management
- o Shared Objects
- o ABAP types and data objects in detail
- o Unicode
- o Work with internal tables in detail
- o Work with field symbols and data references
- o Dynamic programming
- o Runtime type information, runtime type creation
- o Complex Open SQL statements
- o Analysis tools for programs
- o Recommendations and conventions
- o Performance rules

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