

# Advanced ABAP

## Content

### ABAP Language Evolution

- Explaining the Difference between Statements, Functions and Expressions
- Describing ABAP Data Types and Data Objects
- Selecting Data from a Single Database Table with Open SQL

### Program Calls and Memory Management

- Calling Programs Synchronously
- Describing the ABAP Runtime and Memory Management
- Using Shared Objects

### Statements, Functions, and Expressions for Simple Data

- Using Numeric Data Types in Arithmetic Expressions
- Understanding Statements for Processing Character Strings and Byte Strings
- Processing Character Strings and Byte Strings Using Functions and Expressions

### Internal Tables

- Using Standard, Sorted, and Hashed Tables
- Using Special Techniques with Internal Tables
- Using Expressions for Internal Tables
- Using Data References and Field Symbols

### Dynamic Programming

- Explaining the Dynamic Programming Techniques of ABAP
- Using Dynamic Statements and Dynamic Calls
- Using Generic Data Types
- Describing Data Types, Data Objects, and Objects at Runtime
- Creating Data Types, Data Objects, and Objects at Runtime

### ABAP Open SQL

- Describing the Technical Background of Database Accesses with Open SQL
- Processing and Aggregating Datasets on the Database
- Implementing Complex WHERE Conditions and Special INTO Clauses
- Using the Features of the New Open SQL
- Selecting Data from Multiple Database Tables
- Explaining Additional Techniques for Reading from Multiple Database Tables

## **Analysis and Testing**

- Defining and Activating Checkpoints
- Using the ABAP Trace
- Using the SQL Trace
- Using the SQL Monitor