Db2 Native SQL Stored Procedures

Course Summary

Description

The student learns how to design and implement native SQL stored procedures.

Objectives

After taking this course, students will be able to:

- Understand the syntax of the SQL procedure language
- Design and code native SQL stored procedures
- Understand the options of the CREATE PROCEDURE, ALTER PROCEDURE, and DROP PROCEDURE statements for native SQL stored procedures
- Use conditions, handlers, and compound statements in native SQL stored procedures
- Use versioning in the creation and maintenance of native SQL stored procedures
- Understand and use the commands associated with maintaining native SQL stored procedures.

Topics

- CREATE PROCEDURE
- Stored procedure options
- Stored procedure parameters
- SQL Procedure Language syntax
- Compound statements
- Conditions and Handlers
- ALTER PROCEDURE
- Versioning
- Commands for native SQL stored procedures
- Deploying native SQL stored procedures
- Db2 Catalog tables for stored procedures

Audience

This course is designed for application programmers who will be involved in creating, testing, and implementing native SQL stored procedures in Db2 for z/OS.

Prerequisites

Before taking this course, students should be knowledgeable of SQL, and have some experience invoking and coding stored procedures.

Duration

One day

Db2 Native SQL Stored Procedures

Course Outline

I. Overview of native SQL stored procedures
- A. Defining native SQL stored procedures
  1. CREATE PROCEDURE
  2. Parameter declarations
  3. Options
- B. Removing stored procedure definitions
- C. DROP PROCEDURE
- D. Computer Exercise: A Simple native SQL stored procedure

II. Native SQL Procedures Language Syntax
- A. SQL statements
- B. Compound Statements
- C. Comments
- D. Labels
- E. Declarations: Variable, Conditions, Handlers, and Cursors
- F. Procedural Statements
- G. Computer Exercise: A more complicated native SQL stored procedure

III. ALTER PROCEDURE parameters
- A. Versioning
  1. ADD VERSION
  2. ALTER VERSION
  3. REPLACE VERSION
  4. ACTIVATE VERSION
  5. REGENERATE VERSION
  6. DROP VERSION
- B. Computer Exercise: Converting a COBOL stored procedure to native SQL

IV. Db2 Commands for native SQL stored procedures

V. Deploying native SQL stored procedures

VI. Catalog changes for native SQL stored procedures