

DB1095 - DB2 9 for z/OS Application & XML Features

Course Synopsis

Duration:	Two (2) days.
Audience:	This course is intended for application developers, database administrators, DB2 system programmers and application architects.
Prerequisites:	Significant experience developing, administering or supporting applications that use a previous release of DB2 for z/OS. Significant experience using SQL is recommended. The Fundamentals of XML course or previous experience with XML is recommended. The features discussed require DB2 9 for z/OS.
Delivery Method:	Instructor led, Hands-on workshops

Brief Description

This course introduces the attendee to the new SQL, application and XML features of DB2 9 for z/OS.

Note: This course is a combination of DB1090 and DB1091.

Course Objectives What You'll Learn

Upon successful completion of this course, the student will be able to:

- Understand the new SQL Features of DB2 9
- Be ready to implement and support these features in applications
- Be familiar with the PureXML features of DB2 9 for z/OS

Topics Covered

I. Overview of DB2 9

- Physical Design Enhancements
- SQL Enhancements
- Pure XML Support
- Migration Phases
- Obsolete Features

II. SQL Enhancements

- MERGE Statement
- SELECT FROM UPDATE/MERGE/DELETE
- INTERSECT & EXCEPT
- New Built-in Functions
- New Datatypes
- Row Change Timestamp
- Optimistic Locking
- "Instead Of" Triggers

III. Native SQL Stored Procedures

- Stored Procedure History
- SQL Procedure Language
- SQL PL Procedures in DB2 9

IV. Optimizer Enhancements

- Optimization Service Center
- "What If" Optimization
- Sort Avoidance
- Cluster ratio Changes
- Global Query Optimization
- Plan Stability
- Histogram Statistics

DB1095 - DB2 9 for z/OS Application & XML FeaturesTopics
Covered Continued**V. XML Overview**

- XML – Why? How?
- How XML data is stored
- XML data examples

VI. CREATE TABLE with XML Column**VII. CREATE INDEX with XML Column “element pattern”****VIII. XML Hierarchy Overview****IX. Inserting into an XML Column****X. Updating an XML Column****XI. SELECT with XMLQUERY**

- XMLQUERY
- The XML “path” type expressions
- ALL Elements of the XML document
- Comparison Operators
- Logical Operators
- Sub-element

XII. WHERE with XMLEXISTS

- XMLEXISTS
- The XML “path” Expressions
- Comparison Operators
- Logical Operators

XIII. Programming Language Support for DB2 XML

- COBOL
- JDBC
- Host Variable support

XIV. XML Schemas, Validation and XML Schema Repository (XSR)