
Programming with JDBC, Hibernate, SDO, XQuery in Rational Application Developer v6/v7 and DB2 v9

Course Code: JV331

Duration: 2 days

Objective

In this hands-on course, you will learn how to design, develop, and integrate intranet or internet (J2EE or Java 5 EE) relational database and XML based enterprise applications using DB2 v9, IBM Rational Application Developer v6/v7 (IRAD) or Rational Software Architect v6/v7, and WebSphere Application Server v6.x.

1. Save and load data from relational databases by the latest Java Database Connectivity (JDBC) 3.x, Service Data Object (SDO), Java Stored Procedure, and Hibernate framework with WebSphere Application Server v6.x and DB2 v9.
2. Integrate relational data with XML data by XQuery, and SQL/XML through JDBC extension in DB2 v9.

Topics

Relational Database Programming

- How to use transactional save-point in JDBC 3.x?
- How to retrieve auto-generated key in JDBC 3.x?
- How to program updatable scrollable ResultSet in JDBC 3.x?
- How to implement Java Stored Procedure (SP) and SP client application?
- How to use SDO to access relational database?
- How to integrate SDO with JSF?
- Introduction to Hibernate framework
- How to integrate Hibernate in WebSphere Application Server?
- How to develop JDBC, Java SP, SDO, and Hibernate in IRAD v7.x or RSA v7.x/v6.x?

Hybrid Relational Database/XML Programming

- How to use SQL/XML extension with JDBC to access both relational and XML data?
- What is XQuery?
- How to use XQuery with JDBC to access both relational and XML data?
- Performance enhancement with XML native data type in DB2 v9

- How design and develop SQL/XML extension, XQuery using DB2 v9, and IRAD/RSA v7.x?

Prerequisite

Intermediate Java, J2EE or Java 5 EE knowledge is assumed. Basic XML, SQL and JDBC knowledge is assumed.