



GEMKO Information Group, Inc.

Information Systems Specialists

21st Century IBM i Developer Training Student Courses

Course 3 – RPG IV and SQL, a 1-2 Punch

Length: 1 day

Delivery Method: Instructor led, group-paced, classroom delivery learning model with structured hands-on activities.

Course Description: This RPG programming training workshop investigates ways to combine the unique powers of RPG IV and SQL development environments to provide even more flexibility and functionality.

Course Objective: You will learn how to enable SQL and RPG to complement one another in a business application, especially when one is better suited for a particular task than the other.

Target Student: This course is designed for programmers who have become proficient in the RPG IV language and are seeking better ways for their applications to harvest data.

Prerequisites: Course 1 or comparable experience.

Performance Based Objectives: Upon successful completion of this course, students will be able to:

- Write SQL queries from scratch
- Recognize the advantages of SQL over DDS and Query
- Perform database updates with SQL
- Access SQL function using several different System/i interfaces
- Get SQL and RPG to play nicely in the sandbox
- Make inquiry and report programs more user driven
- Combine data from multiple files for processing
- Make informed decisions whether RPG or SQL is better for a given task

Course Content:

- SQL crash course
- Embedding SQL inside RPG
- Host variables
- The SQL pre-compiler
- Using result sets
- Eliminating “F” specifications
- Building dynamic SQL
- SQL works best when you say UNION yes
- Performance considerations
- Comprehensive labs