

**Course Name:** Power RPG with SQL

**Course Code:** ISSQE

**Duration:** 1 Day

**Price:** £ 575

**Prerequisites:** There are no specific pre-requisites but delegates should have basic keyboard skills.

**Course Outline:** This course is designed for application development staff who need to view, create or modify data in a more flexible way than that afforded by standard RPG operation codes and logic by including standard and dynamic SQL statements.

**Course Content:**

#### **Data Definition Language**

- Creating SQL data store - CREATE TABLE
- Using Constraints such as: PRIMARY KEY, UNIQUE, FOREIGN KEY, CHECK
- Changing tables and columns - ALTER
- Removing SQL objects - DROP
- Adding Documentation using COMMENT ON & LABEL ON
- Creating SQL views and indexes - CREATE VIEW, INDEX, ALIAS
- Performance considerations
- Catalog and Data Dictionary consideration
- Data control and security overview

#### **Including SQL in RPG**

- Pre compilation – and pre-compiler parameters
- Source code availability and control for Debug
- Syntax rules to embed SQL in RPG and RPGLE
- Syntax rules to embed SQL in free-format RPGLE
- Using host variables
- SQL return codes
- Communication area
- Using SELECT in an RPG program

### Updates with SQL in RPG

- Using SQL DML to manipulate data from RPG
- INSERT INTO
- UPDATE SET
- DELETE FROM
- Maintaining transaction integrity
- Journaling and Commitment control
- WHENEVER
- SET TRANSACTION
- OPEN CURSOR, CLOSE CURSOR
- Single and multiple row FETCH
- Updating or Deleting current row

### Dynamic Embedded SQL

- Execute Immediate
- Prepare and Execute
- Using parameter markers to control select structure at run time
- Prepare with Cursor
- Open using
- Variable sequencing at run time
- SET OPTION

### Embedded SQL commands

- Using a results table – DECLARE CURSOR
- Scrollable cursors

**Follow on Courses:** There are no specific follow on courses to this course.

### Schedule:

2024

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Dates for this course will be scheduled on demand so please email or call for further details.