

# DB2 within COBOL: Embedded SQL

CDT621

The student will learn how to access DB2 tables from within COBOL program using embedded SQL. This course makes extensive use of hands-on examples and exercises.

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## Audience

- COBOL programmers who need to be able to access DB2 tables through their programs "Non-programmers" and "power users" who find themselves programming!

## Prerequisites

- Experience with [TSO/ISPF](#) is required.
- Experience with [COBOL](#) is required.
- Understanding of [relational database concepts](#) is required.
- Knowledge of [beginning SQL](#) is required.
- Knowledge of [advanced SQL](#) is recommended but not required.

## Course Length

- Two days

## Learning Objectives

- Use DCLGEN to create copy members.
- Write COBOL programs which access DB2 tables sequentially
- Write COBOL programs which access DB2 tables randomly
- Write COBOL programs which access update DB2 tables
- Compile, bind, and execute COBOL programs which access DB2

## Teaching Methods

- Lecture with hands-on examples
- Hands-on workshops

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## Course Outline

QG3

### Programming considerations

- DCLGEN
- EXEC SQL
- SQLCA
- Precompile, Compile, and Bind

### Accessing a DB2 table sequentially

- DECLARE CURSOR
- OPEN
- FETCH
- CLOSE
- SQLCODE

### Accessing a DB2 table randomly

- SELECT...INTO
- SQLCODE

### Updating a DB2 table randomly

- SET
- SQLCODE