BCI433 - IBM i Business Computing

Week 8: RPGLE Business Application of OLTP

Agenda

► RPGLE Interactive Program File Update
► Lab 7
► Lab 8

Lesson Objectives

Upon completion of this lecture and lab 2 you'll be able to:

► Implement a RPGLE business application with OLTP process

► Use a CLLE driver program to automate testing of the update program

► Examine the journaled changed made to the master file

Term – Master File

Master file:

► The data or database file that holds a collection of records pertaining to one of the main subjects of a business application system, such as Customers, Employees, Products, and etc.

► Master files contain

- descriptive data, e.g. name, address
- summary information, e.g. amount due, year-to-date sales

Term – Transaction File

Transaction file:

► The data or database file that holds a collection of transaction records.

  ▪ The data in transaction files is used to update the master files.

  ▪ Transaction files also serve as audit trails and history for the organization

► Transaction file examples - typical transaction records:

  ▪ EMPLOYEE PAYROLL RECORD

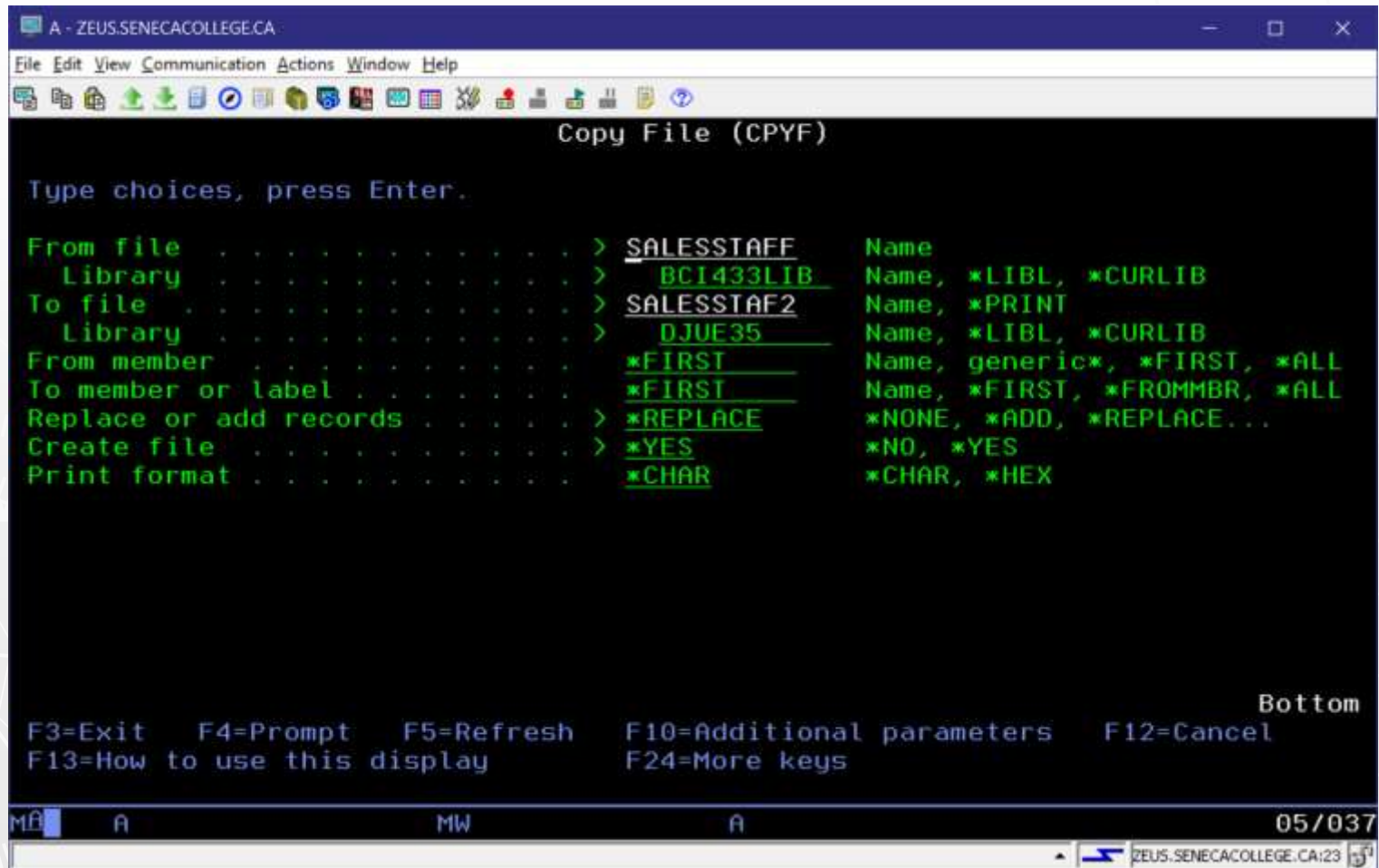 ▪ ORDER RECORD

  ▪ PURCHASE ORDER

Term – OLTP

► OLTP stands for On-line Transaction Processing

► An OLTP system is usually a core information system of an organization.

  ▪ For example, a banking accounting system in a bank, which supports customers to make payments, …

► IBM i Power System server is designed for supporting On-line Transaction Processing (OLTP) systems.

► The term OLTP is opposite to OLAP (e.g. data warehouse, data mining systems)

DB2 Collection

► A **collection** is created using SQL statement

   ▪ a library on IBM i operating system

► Copying physical file across collections:

   ▪ In 'green/white' screen, type 'CPYF' then press F4 key. See next slide for details.

   ▪ Then press F9 to get the complete command, which needs to be placed into the CLLE driver program.

   ▪ Note: make sure to run the command and add the collection to the RDi's library list before you comile the RPGLE program.

Copying physical file across collections

Homework

► Review lecture notes.

► Lab 7

► Start Lab 8 – it will be due in the last week

Lab 7 Demo

The End