

# BCI433 - IBM i Business Computing

Week 8: RPGLE Business  
Application of OLTP

# Agenda

- ▶ RPGLE Interactive Program File Update
- ▶ Lab 7



# 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 changes 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

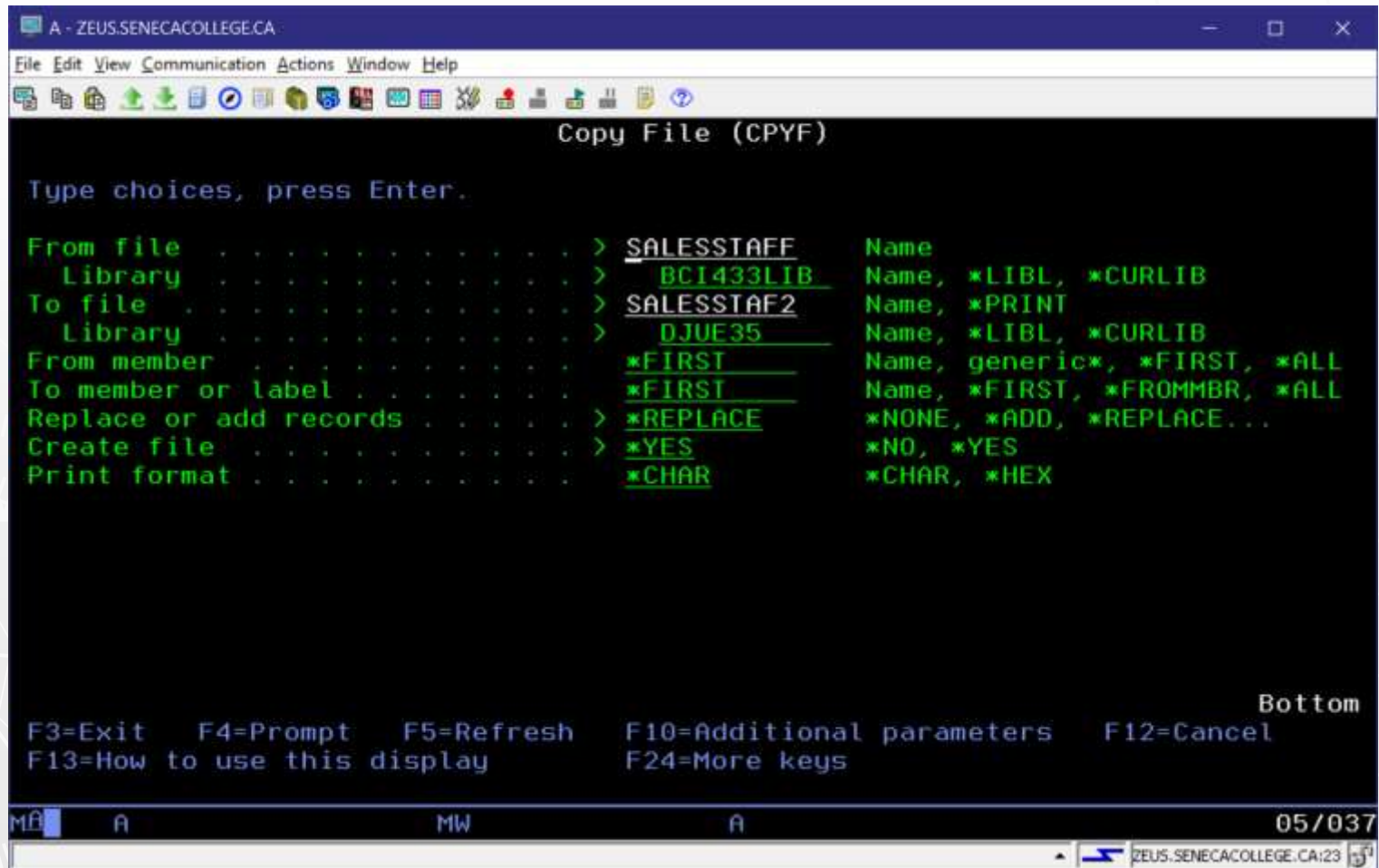
# Term – OLTP

- ▶ 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 compile the RPGLE program.

# Copying physical file across collections



The screenshot shows a terminal window titled "A - ZEUS.SENECACOLLEGE.CA:". The main window displays the "Copy File (CPYF)" command interface. It prompts the user to "Type choices, press Enter." and lists various options for copying a file. The options are organized into two columns. The first column lists the source and target file details, and the second column lists the output format and other options. The user has entered the following choices:

From file	To file	From member	To member or label	Replace or add records	Create file	Print format
SALESSTAFF	SALESSTAF2	*FIRST	*FIRST	*REPLACE	*YES	*CHAR

The second column lists the output format and other options, with the user's choices indicated by asterisks:

Name	Name, *LIBL, *CURLIB	Name, *PRINT	Name, *LIBL, *CURLIB	Name, generic*, *FIRST, *ALL	Name, *FIRST, *FROMMBR, *ALL	*NONE, *ADD, *REPLACE...	*NO, *YES	*CHAR, *HEX

At the bottom of the window, there are function key definitions: F3=Exit, F4=Prompt, F5=Refresh, F10=Additional parameters, F12=Cancel, F13=How to use this display, and F24=More keys. The status bar at the bottom shows the date "05/037" and the file name "ZEUS.SENECACOLLEGE.CA:23".



# Homework

- ▶ Review lecture notes.
- ▶ Complete Lab 7



# Lab 7 Demo



*The End*

