cmis563lab9.htm; updated 05/25/2022

# CMIS 563 Lab 9 (13 points)

# SQL\*PLUS REPORTS

This lab reinforces selected Chapter 9 learning objectives as follows:

* Create a SQL\*Plus program command file and view command file settings.
* Select data to display in reports.
* Format all aspects of report layout.
* Create a control break report including clearing breaks and using the BREAK and COMPUTE commands.
* Use the SPOOL command to produce report listing files.
* Create Master-Detail reports including the use of variables in report titles and footers with the COLUMN command NEW\_VALUE clause.

**Make sure your spool file is in the .doc or .docx format.** If not, rename the extension of your spool file to .doc/.docx (in the unix server using WinSCP) or copy the contents of your spool file into a Word .doc file before submitting your assignment on Blackboard.

**Unless otherwise specified, your report should display all rows of the report and all output should be formatted so that the report is easy to read.**

1. Write a SQL\*Plus program to produce a report that lists dependents of employees. Your report should look like the one shown in Figure 1. Your report needs to have the following characteristics: **(3 points)**

* Display the values shown in both top title and bottom title lines including date and page number.
* Assign meaningful column names as shown.
* Display detail line data from the *dependent* table of the company database.
* Order the detail lines by the *EmployeeID* column.

2. Modify the program for question 1 to produce a control break report like the one shown in Figure 2. Your report needs to have the following additional characteristics: (4

* Display each *EmployeeID* column value only once for each group of dependents belonging to each employee.
* Use the COUNT aggregate function to count the number of dependents and display this count at the end of the report. **(5 Points)**

3. Write an SQL\*Plus program that will use a view named *vwEmpDep*. This view should include columns from the *employee* and *dependent* tables as specified in Table 1. The program must produce a master-detail report like the one shown in Figure 3. Figure 3 shows pages 1 and 4 from the report. Pages 2 and 3 are intentionally deleted from the figure to reduce the size of the figure. Your report should display all pages of the report. Your report needs to have the following characteristics: **(5 Points)**

* List each employee's name at the top of a new report page with a page number.
* Break on the *EmployeeID* value.
* Display the number of dependents per employee as a subtotal with the subtotal label shown in the figure.

Table 1

|  |
| --- |
| * Employee.EmployeeID * Employee Name – defined as a concatenated column that includes the Employee.LastName and Employee.FirstName * columns. * Dependent.Name * Dependent.Gender * Dependent.RelationshipToEmployee |

Figure 1

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Dependent Information

Emp ID Dependent Gender Date Birth Relationship

------ --------------- ------ ---------- ------------

01885 Deanna F 31-DEC-09 DAUGHTER

01885 Jeffery M 01-JAN-08 SON

01885 Mary Ellen F 05-MAY-76 SPOUSE

01885 Michelle F 17-MAR-04 DAUGHTER

01885 Rachael F 04-OCT-15 DAUGHTER

23100 Anita F 06-JUL-14 DAUGHTER

23100 Mita F 04-JUN-76 SPOUSE

23100 Monica F 30-DEC-16 DAUGHTER

23100 Rita F 11-MAY-18 DAUGHTER

33355 Allen M 29-FEB-88 SPOUSE

67555 Andrew M 25-OCT-18 SON

67555 Jo Ellen F 05-APR-16 DAUGHTER

67555 Susan F 03-MAY-95 SPOUSE

Not for external dissemination.

Figure 2

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Dependent Information

Emp ID Dependent Gender Date Birth Relationship

------ --------------- ------ ---------- ------------

01885 Deanna F 31-DEC-09 DAUGHTER

Jeffery M 01-JAN-08 SON

Mary Ellen F 05-MAY-76 SPOUSE

Michelle F 17-MAR-04 DAUGHTER

Rachael F 04-OCT-15 DAUGHTER

23100 Anita F 06-JUL-14 DAUGHTER

Mita F 04-JUN-76 SPOUSE

Monica F 30-DEC-16 DAUGHTER

Rita F 11-MAY-18 DAUGHTER

33355 Allen M 29-FEB-88 SPOUSE

Not for external dissemination.

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Dependent Information

Emp ID Dependent Gender Date Birth Relationship

------ --------------- ------ ---------- ------------

67555 Andrew M 25-OCT-18 SON

Jo Ellen F 05-APR-16 DAUGHTER

Susan F 03-MAY-95 SPOUSE

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Figure 3

Employee Name: Bock, Douglas Page: 1

Emp ID DEPENDENTNAME GENDER RELATIONSHIP

-------------------- --------------- ------ ------------

01885 Jeffery M SON

Deanna F DAUGHTER

Michelle F DAUGHTER

Mary Ellen F SPOUSE

Rachael F DAUGHTER

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Number of Dependents 5

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[Pages 2 and 3 not shown in this figure.]

Employee Name: Simmons, Lester Page: 4

Emp ID DEPENDENTNAME GENDER RELATIONSHIP

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67555 Jo Ellen F DAUGHTER

Andrew M SON

Susan F SPOUSE

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Number of Dependents 3

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End of Lab.