CEGEP VANIER COLLEGE
CENTRE FOR CONTINUING EDUCATION
Introduction to Linux
420-995-VA

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Lab Review 10: Shell Programming, Combining awk Program with Decision Logic

1. (Awk Program) Using vi, edit the three following files *Dept, Employee*, and *Position*, and write an **awk** program to be named *EmployeeReport* to display *employee's* records as shown in Figure 1.

DeptId	DeptName	Location
10	Finance	Charlotte
20	InfoSys	New-York
30	Sales	Woodbridge
40	Marketing	Los-Angeles

Dept File

PositionId	PosDesc
1	President
2	Manager
3	Programmer
4	Accountant
5	Salesman

Position File

EmployeeId	Lname	Fname	PositionId	Salary	DeptId
111	Amine	John	1	265000	10
246	Houston	Larry	2	150000	40
123	Roberts	Sandi	2	75000	10
433	McCall	Alex	3	66500	20
543	Dev	Derek	2	80000	20
200	Shaw	Jinku	5	24500	30
135	Garner	Stanly	2	45000	30
222	Roberts	Sunny	4	35000	10

Employee File

```
                         List of all Employees

                      Fri Oct 28 20:55:12 EDT 2011
         EmplID    EmployeeLName    EmployeeFName    Salary
         ==================================================

           111      Amine            John            265000
           246      Houston          Larry           150000
           123      Roberts          Sandi           75000
           433      McCall           Alex            66500
           543      Dev              Derek           80000
           200      Shaw             Jinku           24500
           135      Garner           Stanly          45000
           222      Roberts          Sunny           35000
```
Figure 1

2. Using *vi*, write an **awk** program (*Emp_Dept_Report*) to display *employee* records and their departmental affiliation as shown in Figure 2.

```
        List of all Employees and Their Departmental Affiliation

        Sat Oct 29 04:48:42 EDT 2011
EmplID    EmployeeLName    EmployeeFName    Salary   Department      Location
=============================================================================

  111     Amine            John             265000   Finance         Charlotte
  123     Roberts          Sandi            75000    Finance         Charlotte
  222     Roberts          Sunny            35000    Finance         Charlotte
  433     McCall           Alex             66500    InfoSys         New-York
  543     Dev              Derek            80000    InfoSys         New-York
  135     Garner           Stanly           45000    Sales           Woodbridge
  200     Shaw             Jinku            24500    Sales           Woodbridge
  246     Houston          Larry            150000   Marketing       Los-Angeles
                            Figure 2
```

3. Using *vi*, write an **awk** program (*Emp_Dept_Pos_Report*) to display *employee* records and their departmental affiliation along with their position's description as shown in Figure 3.

```
        List of all Employees and Their Departmental Affiliation & Position

        Sat Oct 29 04:48:42 EDT 2011
EmplID    EmployeeLName    EmployeeFName    Salary   Department      Location         Position
==============================================================================================

  111     Amine            John             265000   Finance         Charlotte        President
  246     Houston          Larry            150000   Marketing       Los-Angeles      Manager
  135     Garner           Stanly           45000    Sales           Woodbridge       Manager
  123     Roberts          Sandi            75000    Finance         Charlotte        Manager
  543     Dev              Derek            80000    InfoSys         New-York         Manager
  433     McCall           Alex             66500    InfoSys         New-York         Programmer
  222     Roberts          Sunny            35000    Finance         Charlotte        Accountant
  200     Shaw             Jinku            24500    Sales           Woodbridge       Salesman
                            Figure 3
```

4. Using *vi*, write an **awk** program (*Emp_Dept_Pos_SelectedReport*) to display *employee* records working in *Finance* department along with their position's description, where the *President*'s position has been changed to *Chairman*, and where *Roberts Sandi's* location has been changed from *Charlotte* to *Montreal* as shown in Figure 4.

```
        List of all Employees Working in Finance Department & Position

        Sat Oct 29 18:37:03 EDT 2011
EmplID    EmployeeLName    EmployeeFName    Salary   Department      Location         Position
==============================================================================================

  111     Amine            John             265000   Finance         Charlotte        Chairman
  123     Roberts          Sandi            75000    Finance         Montreal         Manager
  222     Roberts          Sunny            35000    Finance         Charlotte        Accountant
                            Figure 4
```

Objectives
- Shell Programming

1. Complete the exercises of:
   - Hands-On Projects 6-15, page 328.
   - Hands-On Projects 6-16 page 329.

What to hand in

1. Create and Submit the Word file OracleCh6YourName.doc for storing the following :

   A good sample of output screenshots. For this purpose, students should capture the screen display and use Paint to cut/past and submit the appropriate windows (and not the entire screen display) displaying the output for each question, if any. You have to paste the Script shell commands used for this purpose, if any.