```
/**********************************
*******/
/* Program Name:
                    pulkit.jain HW16.sas
                         * /
/* Program Location: C:\Users\Pulkit
Jain\Documents\sasuniversityedition\myfolders\assign16 */
/* Date Created: 12/04/2017
                         * /
                      Pulkit Jain
/* Author:
/* Purpose:
                      Assignment 16, Read from Raw Datafile
/**********************************
******/
/* 1 Use a fileref to access dat file, include headers*/
/* Create two libname statements;
                                                              */
/* Assign library to locaion of hw data with access only; */
/* Assign another library with read and write access;
filename andro '/folders/myfolders/hw data/andromeda.dat';
libname hw data '/folders/myfolders/hw data' access=readonly;
libname pulkit16 '/folders/myfolders/assign16';
/* Specify a fileref to designate output of pdf */
filename HW16 '/folders/myfolders/assign16/pulkit.jain HW16 output.pdf';
/* 2 Read and create datasest with 4 variables, Level, Name, Designation & Salary*/
/* Specify options for output pdf file */
ods pdf file = HW16 bookmarkgen=yes;
options dtreset;
data work.andro data (Keep= Level Employee Name Job Title Salary);
     length Level 3 Employee Name $25 Job Title $25;
     infile andro truncover;
     * read in levels and check what category they belong to;
     input @1 row st1 $8.
            @10 row st2 $8.
            @19 row st3 $8.
            @28 row st4 $8.
            @37 row st5 $8.
            @46 row st6 $8.
            @;
     if row st1 = '(Level1)' then do;
          Level = 1;
          input @10 employee info $50. @;
     end:
     else if row st2 = '(Level2)' then do;
          Level = 2;
          input @19 employee info $50. @;
     end:
   else if row st3 = '(Level3)' then do;
          Level = 3;
          input @28 employee info $50. @;
     else if row st4 = '(Level4)' then do;
```

```
Level = 4;
           input @37 employee info $50. @;
     else if row st5 = '(Level5)' then do;
           Level = 5;
           input @46 employee info $50. @;
     end;
     else do;
           Level = 6;
           input @54 employee info $50. @;
     input @106 Salary dollar10.0 @;
     * parse job title & employee name from the employee info variable;
     Job Title = substr(employee info, 1, find(employee info,'(') - 1);
     Employee Name = substr(employee info, find(employee info,'(') + 1);
     Employee Name = compress(Employee Name, ')');
run;
/* 3 Use Frequency Procedure on Job Title */
PROC FREQ data = andro data;
     tables Job Title;
     title1 "Analysis of Andromeda Employee Data for Clean Up";
     title3 "Frequency Report of Job Title";
run;
/* 4 Use Univariate Procedure on Salary variable */
PROC univariate data = andro_data;
     var Salary;
     title1 "Analysis of Andromeda Employee Data for Clean Up";
     title2 "Analysis of Salary Values";
run;
/* 5 Print irregular salaries data */
PROC PRINT data = andro data ;
     where 24000 > Salary or Salary > 433800;
     title2 "Salary Values to be Investigated";
RUN;
/* 6 Clean Up the job titles conditionally */
data work.andro clean;
    set work.andro_data;
    if Job Title='Accountant i'
     then Job Title='Accountant I';
    else if Job Title='Accountant ii'
     then Job Title='Accountant II';
    else if Job Title='Accountant iii'
     then Job Title='Accountant III';
    else if Job Title='Warehouse Assistant i'
     then Job Title='Warehouse Assistant I';
    else if Job Title='Warehouse Assistant ii'
     then Job Title='Warehouse Assistant II';
run:
/* 7 Use Freq procedure to show job titles in cleaned data*/
```

```
proc freq data = work.andro clean nlevels;
     table Job_Title / noprint;
     title1 "Number of Different Jobs in Cleaned Data";
run;
/* 8 Print Employees with titles Chief, Director, or Temp. or Vice President*/
/* Sort Data By Job level */
proc sort data = work.andro_clean;
     by Level;
RUN;
title "List of Andromeda Employees to be Reviewed for Orion Positions";
/* Print required observations */
proc print data=work.andro clean;
 id Level;
 by Level;
 var Job Title Employee Name;
 where Job Title like '%Chief%' or
           Job Title like '%Director%' or
           Job Title like '%Temp.%'
           Job Title like '%Vice President%';
run;
/* 9 Houskeeping to make sure title or footnote dont carry over */
title;
footnote;
/* 10 Close PDF Output */
ods pdf close;
ods listing;
```