

```

102 *STEP 1 ;
103
/*****
103! *****/
104 /*1. Program Name:Vivek235_HW03_Program.sas
104! */
105 /* Program Location: C:\Users\vigupta\OneDrive\Learning\DataScience\Statistics Texas A&M
105! University\657\Homework\Assignment03\Assignment\Vivek235_HW03_Program.sas */
106 /* Date Created: 1/23/17
106! */
107 /* Author: Vivek Kumar Gupta
107! */
108 /* Purpose: Utilize skills learnt through SATs 604 course/Base SAS Programmer and practice
108! lectures 01-04 of STAT 657. */
109
/*****
109! *****/
110
111 *STEP 1 ;
112 *1.Create the necessary library references for data sources and destination and file
112! references for output ;
113 libname orion 'C:\Users\vigupta\OneDrive\Learning\DataScience\Statistics Texas A&M
113! University\657\SQL Files' access=readonly;
NOTE: Libref ORION was successfully assigned as follows:
      Engine:          V9
      Physical Name: C:\Users\vigupta\OneDrive\Learning\DataScience\Statistics Texas A&M
      University\657\SQL Files
114 libname Unicorn 'C:\Users\vigupta\OneDrive\Learning\DataScience\Statistics Texas A&M
114! University\657\Homework\Assignment03\SourceData' access=readonly;
NOTE: Libref UNICORN was successfully assigned as follows:
      Engine:          V9
      Physical Name: C:\Users\vigupta\OneDrive\Learning\DataScience\Statistics Texas A&M
      University\657\Homework\Assignment03\SourceData
115 libname output 'C:\Users\vigupta\OneDrive\Learning\DataScience\Statistics Texas A&M
115! University\657\Homework\Assignment03\PermUserLibrary' ;
NOTE: Libref OUTPUT was successfully assigned as follows:
      Engine:          V9
      Physical Name: C:\Users\vigupta\OneDrive\Learning\DataScience\Statistics Texas A&M
      University\657\Homework\Assignment03\PermUserLibrary
116
117 filename pdfdevA 'C:\Users\vigupta\OneDrive\Learning\DataScience\Statistics Texas A&M
117! University\657\Homework\Assignment03\PermUserLibrary\Vivek235_HW03_OutputA.pdf';
118 filename pdfdevB 'C:\Users\vigupta\OneDrive\Learning\DataScience\Statistics Texas A&M
118! University\657\Homework\Assignment03\PermUserLibrary\Vivek235_HW03_OutputB.pdf';
119
120 option date dtreset;
121
122
123 /*STEP 2. Create two user-defined formats that can be used to enhance the way values are
123! displayed.*/
124
125 proc format ;
126 value $gender 'm'='Male'
127              'M'='Male'
128              'f'='Female'
129              'F'='Female'
130              other='Unknown.';

```

NOTE: Format \$GENDER is already on the library WORK.FORMATS.

NOTE: Format \$GENDER has been output.

131 run;

NOTE: PROCEDURE FORMAT used (Total process time):

real time 0.02 seconds

cpu time 0.01 seconds

132

133 proc format;

134 value salary low-26000 ='Very Low'

135 26000<-50000='Low'

136 50000<-75000='Medium'

137 75000<-100000='High'

138 100000<-high='Very High';

NOTE: Format SALARY is already on the library WORK.FORMATS.

NOTE: Format SALARY has been output.

139 run;

NOTE: PROCEDURE FORMAT used (Total process time):

real time 0.02 seconds

cpu time 0.01 seconds

140

141 /\* STEP 3. Write a PROC step that will send a listing of all the available styles to the

141! default output destination.\*/

142

143 proc template ;

144 list styles;

WARNING: No output destinations active.

145 run;

NOTE: PROCEDURE TEMPLATE used (Total process time):

real time 0.04 seconds

cpu time 0.03 seconds

146

147 /\*STEP 4. Close all open ODS destinations\*/

148 ods \_ALL\_ close;

149

150

151

152 /\*STEP 4. Open two PDF destinations to capture the output from the procedures that follow.

153 Do not apply a style to the first output destination and use an option that will prevent it

153! from creating

154 the table of contents/bookmarks. Use a similar name for the second PDF file except end the

154! name with

155 outputB. Apply the FancyPrinter style to the second ODS PDF output. Create the PDF bookmarks

155! on the second

156 PDF file but do not show them by default.\*/

157 ods pdf (ID=OutputA)file = pdfdevA notoc bookmarkgen=no;

NOTE: Writing ODS PDF(OUTPUTA) output to DISK destination "PDFDEVA", printer "PDF".

158 ods pdf (ID=OutputB)file = pdfdevB style=FancyPrinter bookmarkgen=yes bookmarklist=hide ;

NOTE: Writing ODS PDF(OUTPUTB) output to DISK destination "PDFDEVB", printer "PDF".

159

```

160 /*STEP 5. Run a procedure to list all of the data sets in the Orion data library without
160! showing the details of each data set.*/
161
162 title"Data Sets Available from Orion";
163 title3"For Use by Acquisition Group";
164 footnote"Note: This output is being sent to two separate documents.";
165
166 proc contents data=orion._all_ nods ;
167 run;

```

NOTE: PROCEDURE CONTENTS used (Total process time):

```

      real time          0.05 seconds
      cpu time           0.03 seconds

```

```

168
169 /*STEP 6. Turn off the printing of the date at the top of the page for the remainder of the
169! output.*/
170 option nodate;
171
172 /*STEP 7. Run a procedure that will print the descriptor portion of the Unicornstaff data
set
172! downloaded from eCampus.*/
173 title"Analysis of Unicorn Athletics Staff List";
174 title2"Layout of Data Recovered from CEO's Laptop";
175 proc contents data=unicorn.unicornstaff ;
176 run;

```

NOTE: PROCEDURE CONTENTS used (Total process time):

```

      real time          0.05 seconds
      cpu time           0.03 seconds

```

```

177
178
179 /*STEP 8. Close the outputA destination so that it only contains the output of the two
179! procedures executed above.*/
180 ods pdf (ID=OutputA) close ;
NOTE: ODS PDF(OUTPUTA) printed 2 pages to
      C:\Users\vigupta\OneDrive\Learning\DataScience\Statistics Texas A&M
      University\657\Homework\Assignment03\PermUserLibrary\Vivek235_HW03_OutputA.pdf.
181
182 title"Analysis of Unicorn Athletics Staff List";
183 title3"Unicorn Employees Still Working";
184 footnote;
185
186 /*STEP 9. Print a subset of the data portion of the Unicornstaff as instructed*/
187 proc print data=unicorn.unicornstaff noobs ;
188   var Emp_ID
189       Hire_dt
190       Job_Title
191       Salary
192       Gender;
193   where TrueUnicorn='Yes' and missing(Term_Dt);
194   format Gender $gender.
195           Salary salary.
196           Hire_Dt ddmmyy10.;

```

197 run;

NOTE: There were 300 observations read from the data set UNICORN.UNICORNSTAFF.  
WHERE (TrueUnicorn='Yes') and MISSING(Term\_Dt);

NOTE: PROCEDURE PRINT used (Total process time):

real time 0.11 seconds

cpu time 0.11 seconds

198

199 /\*STEP 10. Close second pdf and do regular housekeeping\*/

200 ods pdf (ID=OutputB) close ;

NOTE: ODS PDF(OUTPUTB) printed 12 pages to

C:\Users\vigupta\OneDrive\Learning\DataScience\Statistics Texas A&M

University\657\Homework\Assignment03\PermUserLibrary\Vivek235\_HW03\_OutputB.pdf.

201 title;

202 option date dtreset;