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**Program Summary - Program 1.sas**

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**Execution Environment**

Author: u63613043  
File: /home/u63613043/Program 1.sas  
SAS Platform: Linux LIN X64 5.14.0-284.30.1.el9\_2.x86\_64  
SAS Host: ODAWS02-USW2-2.ODA.SAS.COM  
SAS Version: 9.04.01M7P08062020  
SAS Locale: en\_US  
Submission Time: 3/20/2025, 3:08:01 PM  
Browser Host: 128.164.185.118  
User Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/134.0.0.0 Safari/537.36  
Application Server: ODAMID00-USW2-2.ODA.SAS.COM

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**Code: Program 1.sas**

```
/*problem 1 part a*/
filename reffile '/home/u63613043/titanic.csv';

proc import datafile=reffile dbms=csv out=work.import replace;
    getnames=yes;
run;

proc contents data=work.import;
run;

libname mylib "/home/u63613043/mylib";

data mylib.titanic;
    set work.import;
run;

/* part b */
proc sql;
    select Total_Observations, Total_Variables from
        (select count(*) as Total_Observations from mylib.titanic) as
        Total_Observations, (select count(distinct name) as Total_Variables from
        dictionary.columns where libname="MYLIB" and memname="TITANIC") as
        Total_Variables;
quit;

/* part c */
proc sql;
    select name as Variable_Name,
           type as Data_Type,
           length as Variable_Length,
           format as Variable_Format,
           label as Variable_Label
    from dictionary.columns
    where libname = 'MYLIB' and memname = 'TITANIC';
quit;

/* part d */
data _null_;
    set sashelp.vcolumn end = last;
    where libname = 'MYLIB' and memname = 'TITANIC';
    if type='num' then numeric_count+1;
    else if type = 'char' then character_count+1;

    if last then do;
        file print;
        put "Numeric Variables = " numeric_count;
        put "Character Variables = " character_count;
    end;
run;

/* Problem 2 */
libname myfmt "/home/u63613043/myfmt";
proc format library=myfmt;
    value pclassf
        1 = 'Upper Class'
        2 = 'Middle Class'
        3 = 'Lower Class'
        other = 'Unknown'
    ;
    value $embarkf
        'C' = 'Cherbourg'
        'Q' = 'Queenstown'
        'S' = 'Southampton'
        other = 'Unknown'
```

```

;
run;
options fmtsearch=(myfmt);

/* Problem 3 */
options fmtsearch=(myfmt);

proc sort data = mylib.titanic out = work.titanic_sorted;
  by Pclass;
run;

data work.death_count;
  set work.titanic_sorted;
  by Pclass;
  retain Deaths 0;

  if first.Pclass then Deaths = 0;
  if Survived = 0 then Deaths +1;
  if last.Pclass then output;

  keep Pclass Deaths;
run;

proc print data = work.death_count noobs label;
  var Pclass Deaths;
  format Pclass pclassf.;

  label Pclass = "Passenger Class"
  Deaths = "Number of Deaths";

  title "Number of Deaths by Passenger Class";
run;

/* Problem 4 */
options fmtsearch = (myfmt);

proc sql;
  select pclass format = pclassf. as Passenger_Class,
         count(*) as Number_of_Passengers,
         sum (case when Survived = 0 then 1 else 0 end) as Number_of_Deaths,
         (calculated Number_of_Deaths / calculated Number_of_Passengers) * 1000
         as Deaths_per_1000
  from mylib.titanic
  group by pclass
  ;
quit;

/* Part 2 Problem 5 */
proc means data=sashelp.class noprint;
  var weight;
  output out = stats mean = mean_weight;
run;

data work.class_new;
  if _n_ = 1 then set stats;
  set sashelp.class;
  Weight_minus_MeanWeight = weight - mean_weight;
  drop _type_ _freq_;
run;

proc print data = work.class_new noobs;
  title "SASHELP.CLASS with Weight_minus_MeanWeight";
run;

/* Problem 6 */
data membership;
  infile datalines dsd truncover;
  length Member_ID $9 Gender $1;
  input Member_ID : $9.
         BeginEnroll : ?? date9.
         EndEnroll : ?? date9.
         DOB : ?? date9.
         Gender : $1.;
  format BeginEnroll EndEnroll DOB date9.;
datalines;
M00008501,5FEB2013,31Dec2013,14May1930, M
M00008502,30FEB2013,31Dec2013, 24May1930, F
M00008503,15JUL2013,31Nov2013,30Feb1930, F
M00008504,25AUG2013,31Dec2013,14May1930, M
M00008505,27EB2013,31Dec2013,14May1930, F
;
run;

proc print data = membership noobs;
  title "Membership Data Listing";
run;

```

---

**Log: Program 1.sas**

Notes (46)

```

1      OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
68
69      /*problem 1 part a*/
70      filename reffile '/home/u63613043/titanic.csv';
71
72      proc import datafile=reffile dbms=csv out=work.import replace;
73      getnames=yes;
74      run;

```

NOTE: Unable to open parameter catalog: SASUSER.PARMS.PARMS.SLIST in update mode. Temporary parameter values will be saved to WORK.PARMS.PARMS.SLIST.

```

75      /*****
76      *   PRODUCT:   SAS
77      *   VERSION:   9.4
78      *   CREATOR:   External File Interface
79      *   DATE:      20MAR25
80      *   DESC:      Generated SAS Daststep Code
81      *   TEMPLATE SOURCE: (None Specified.)
82      *****/
83      data WORK.IMPORT ;
84      %let _EFIERR_ = 0; /* set the ERROR detection macro variable */
85      infile REFFILE delimiter = ',' MISSOVER DSD  firstobs=2 ;
86      informat PassengerId best32. ;
87      informat Survived best32. ;
88      informat Pclass best32. ;
89      informat Name $57. ;
90      informat Sex $6. ;
91      informat Age best32. ;
92      informat SibSp best32. ;
93      informat Parch best32. ;
94      informat Ticket $16. ;
95      informat Fare best32. ;
96      informat Cabin $4. ;

```

```

97      informat Embarked $1. ;
98      informat WikiId best32. ;
99      informat Name_wiki $55. ;
100     informat Age_wiki best32. ;
101     informat Hometown $36. ;
102     informat Boarded $11. ;
103     informat Destination $41. ;
104     informat Lifeboat $3. ;
105     informat Body $5. ;
106     informat Class best32. ;
107     format PassengerId best12. ;
108     format Survived best12. ;
109     format Pclass best12. ;
110     format Name $57. ;
111     format Sex $6. ;
112     format Age best12. ;
113     format SibSp best12. ;
114     format Parch best12. ;
115     format Ticket $16. ;
116     format Fare best12. ;
117     format Cabin $4. ;
118     format Embarked $1. ;
119     format WikiId best12. ;
120     format Name_wiki $55. ;
121     format Age_wiki best12. ;
122     format Hometown $36. ;
123     format Boarded $11. ;
124     format Destination $41. ;
125     format Lifeboat $3. ;
126     format Body $5. ;
127     format Class best12. ;
128     input
129         PassengerId
130         Survived
131         Pclass
132         Name $
133         Sex $
134         Age
135         SibSp
136         Parch
137         Ticket $
138         Fare
139         Cabin $
140         Embarked $
141         WikiId
142         Name_wiki $
143         Age_wiki
144         Hometown $
145         Boarded $
146         Destination $
147         Lifeboat $
148         Body $
149         Class
150     ;
151     if _ERROR_ then call symputx('_EFIERR_',1); /* set ERROR detection macro variable */
152     run;

```

NOTE: The infile REFFILE is:

```

Filename=/home/u63613043/titanic.csv,
Owner Name=u63613043,Group Name=oda,
Access Permission=-rw-r--r--,
Last Modified=18Mar2025:19:34:35,
File Size (bytes)=227422

```

NOTE: 1309 records were read from the infile REFFILE.

```

The minimum record length was 63.
The maximum record length was 267.

```

NOTE: The data set WORK.IMPORT has 1309 observations and 21 variables.

NOTE: DATA statement used (Total process time):

```

real time          0.00 seconds
user cpu time      0.00 seconds
system cpu time    0.00 seconds
memory            9734.06k
OS Memory         33312.00k
Timestamp         03/20/2025 07:08:01 PM
Step Count                59  Switch Count  2
Page Faults                0
Page Reclaims            139
Page Swaps                0
Voluntary Context Switches 15
Involuntary Context Switches 0
Block Input Operations     0
Block Output Operations   1040

```

1309 rows created in WORK.IMPORT from REFFILE.

NOTE: WORK.IMPORT data set was successfully created.  
 NOTE: The data set WORK.IMPORT has 1309 observations and 21 variables.  
 NOTE: PROCEDURE IMPORT used (Total process time):

real time	0.08 seconds
user cpu time	0.04 seconds
system cpu time	0.01 seconds
memory	9734.06k
OS Memory	33828.00k
Timestamp	03/20/2025 07:08:01 PM
Step Count	59 Switch Count 10
Page Faults	0
Page Reclaims	1324
Page Swaps	0
Voluntary Context Switches	89
Involuntary Context Switches	3
Block Input Operations	0
Block Output Operations	1096

```
153
154     proc contents data=work.import;
155     run;
```

NOTE: PROCEDURE CONTENTS used (Total process time):

real time	0.03 seconds
user cpu time	0.04 seconds
system cpu time	0.00 seconds
memory	2149.68k
OS Memory	28592.00k
Timestamp	03/20/2025 07:08:01 PM
Step Count	60 Switch Count 0
Page Faults	0
Page Reclaims	156
Page Swaps	0
Voluntary Context Switches	3
Involuntary Context Switches	2
Block Input Operations	0
Block Output Operations	32

```
156
157     libname mylib "/home/u63613043/mylib";
NOTE: Libref MYLIB was successfully assigned as follows:
Engine:          V9
Physical Name:   /home/u63613043/mylib
```

```
158
159     data mylib.titanic;
160     set work.import;
161     run;
```

NOTE: There were 1309 observations read from the data set WORK.IMPORT.  
 NOTE: The data set MYLIB.TITANIC has 1309 observations and 21 variables.  
 NOTE: DATA statement used (Total process time):

real time	0.01 seconds
user cpu time	0.00 seconds
system cpu time	0.00 seconds
memory	1760.34k
OS Memory	28592.00k
Timestamp	03/20/2025 07:08:01 PM
Step Count	61 Switch Count 1
Page Faults	0
Page Reclaims	153
Page Swaps	0
Voluntary Context Switches	58
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	1032

```
162
163     /* part b */
164     proc sql;
165     select Total_Observations, Total_Variables from
166     (select count(*) as Total_Observations from mylib.titanic) as
167     Total_Observations, (select count(distinct name) as Total_Variables from
168     dictionary.columns where libname="MYLIB" and memname="TITANIC") as
169     Total_Variables;
```

NOTE: The execution of this query involves performing one or more Cartesian product joins that can not be optimized.

```
170     quit;
```

NOTE: PROCEDURE SQL used (Total process time):

real time	0.01 seconds
user cpu time	0.01 seconds
system cpu time	0.00 seconds
memory	6038.59k
OS Memory	33456.00k
Timestamp	03/20/2025 07:08:01 PM
Step Count	62 Switch Count 0
Page Faults	0
Page Reclaims	135

```

Page Swaps          0
Voluntary Context Switches 11
Involuntary Context Switches 0
Block Input Operations 0
Block Output Operations 8

```

```

171
172      /* part c */
173      proc sql;
174      select name as Variable_Name,
175      type as Data_Type,
176      length as Variable_Length,
177      format as Variable_Format,
178      label as Variable_Label
179      from dictionary.columns
180      where libname = 'MYLIB' and memname = 'TITANIC';
181      quit;

```

NOTE: PROCEDURE SQL used (Total process time):

```

real time          0.02 seconds
user cpu time      0.02 seconds
system cpu time    0.00 seconds
memory             5339.84k
OS Memory          32940.00k
Timestamp          03/20/2025 07:08:01 PM
Step Count         63  Switch Count  0
Page Faults        0
Page Reclaims      117
Page Swaps         0
Voluntary Context Switches 7
Involuntary Context Switches 2
Block Input Operations 0
Block Output Operations 0

```

```

182
183      /* part d */
184      data _null_;
185      set sashelp.vcolumn end = last;
186      where libname = 'MYLIB' and memname = 'TITANIC';
187      if type='num' then numeric_count+1;
188      else if type = 'char' then character_count+1;
189
190      if last then do;
191      file print;
192      put "Numeric Variables = " numeric_count;
193      put "Character Variables = " character_count;
194      end;
195      run;

```

NOTE: 2 lines were written to file PRINT.

NOTE: There were 21 observations read from the data set SASHELP.VCOLUMN.  
WHERE (libname='MYLIB') and (memname='TITANIC');

NOTE: DATA statement used (Total process time):

```

real time          0.00 seconds
user cpu time      0.01 seconds
system cpu time    0.00 seconds
memory             5545.25k
OS Memory          32940.00k
Timestamp          03/20/2025 07:08:01 PM
Step Count         64  Switch Count  0
Page Faults        0
Page Reclaims      130
Page Swaps         0
Voluntary Context Switches 6
Involuntary Context Switches 1
Block Input Operations 0
Block Output Operations 0

```

```

196
197      /* Problem 2 */
198      libname myfmt "/home/u63613043/myfmt";
NOTE: Libref MYFMT was successfully assigned as follows:
Engine:          V9
Physical Name:   /home/u63613043/myfmt
199      proc format library=myfmt;
200
201      ! value pclassf
202      1 = 'Upper Class'
203      2 = 'Middle Class'
204      3 = 'Lower Class'
205      other = 'Unknown'
206      ;

```

NOTE: Format PCLASSF is already on the library MYFMT.FORMATS.

NOTE: Format PCLASSF has been written to MYFMT.FORMATS.

```

206      value $embarkf
207      'C' = 'Cherbourg'
208      'Q' = 'Queenstown'

```

```

209          'S' = 'Southampton'
210          other = 'Unknown'
211      ;

```

NOTE: Format \$EMBARKF is already on the library MYFMT.FORMATS.

NOTE: Format \$EMBARKF has been written to MYFMT.FORMATS.

```
212      run;
```

NOTE: PROCEDURE FORMAT used (Total process time):

```

real time          0.00 seconds
user cpu time      0.00 seconds
system cpu time    0.00 seconds
memory             246.81k
OS Memory          27816.00k
Timestamp          03/20/2025 07:08:01 PM
Step Count         65  Switch Count  0
Page Faults        0
Page Reclaims      14
Page Swaps         0
Voluntary Context Switches  10
Involuntary Context Switches 0
Block Input Operations  0
Block Output Operations  56

```

```

213      options fmtsearch=(myfmt);
214
215      /* Problem 3 */
216      options fmtsearch=(myfmt);
217
218      proc sort data = mylib.titanic out = work.titanic_sorted;
219      by Pclass;
220      run;

```

NOTE: There were 1309 observations read from the data set MYLIB.TITANIC.

NOTE: The data set WORK.TITANIC\_SORTED has 1309 observations and 21 variables.

NOTE: PROCEDURE SORT used (Total process time):

```

real time          0.00 seconds
user cpu time      0.00 seconds
system cpu time    0.00 seconds
memory             2703.31k
OS Memory          29888.00k
Timestamp          03/20/2025 07:08:01 PM
Step Count         66  Switch Count  2
Page Faults        0
Page Reclaims      261
Page Swaps         0
Voluntary Context Switches  20
Involuntary Context Switches 0
Block Input Operations  0
Block Output Operations 1040

```

```

221
222      data work.death_count;
223      set work.titanic_sorted;
224      by Pclass;
225      retain Deaths 0;
226
227      if first.Pclass then Deaths = 0;
228      if Survived = 0 then Deaths +1;
229      if last.Pclass then output;
230
231      keep Pclass Deaths;
232      run;

```

NOTE: There were 1309 observations read from the data set WORK.TITANIC\_SORTED.

NOTE: The data set WORK.DEATH\_COUNT has 3 observations and 2 variables.

NOTE: DATA statement used (Total process time):

```

real time          0.00 seconds
user cpu time      0.01 seconds
system cpu time    0.00 seconds
memory             1446.31k
OS Memory          28592.00k
Timestamp          03/20/2025 07:08:01 PM
Step Count         67  Switch Count  2
Page Faults        0
Page Reclaims      184
Page Swaps         0
Voluntary Context Switches  12
Involuntary Context Switches 0
Block Input Operations  0
Block Output Operations  264

```

```

233
234      proc print data = work.death_count noobs label;
235      var Pclass Deaths;
236      format Pclass pclassf.;
237

```

```

238      label Pclass = "Passenger Class"
239      Deaths = "Number of Deaths";
240
241      title "Number of Deaths by Passenger Class";
242      run;

```

NOTE: There were 3 observations read from the data set WORK.DEATH\_COUNT.

NOTE: PROCEDURE PRINT used (Total process time):

```

real time          0.00 seconds
user cpu time      0.01 seconds
system cpu time    0.00 seconds
memory            716.68k
OS Memory          28076.00k
Timestamp          03/20/2025 07:08:01 PM
Step Count        68  Switch Count  1
Page Faults       0
Page Reclaims     89
Page Swaps        0
Voluntary Context Switches  15
Involuntary Context Switches 0
Block Input Operations  0
Block Output Operations  8

```

```

243
244      /* Problem 4 */
245      options fmtsearch = (myfmt);
246
247      proc sql;
248      select pclass format = pclassf. as Passenger_Class,
249      count(*) as Number_of_Passengers,
250      sum (case when Survived = 0 then 1 else 0 end) as Number_of_Deaths,
251      (calculated Number_of_Deaths / calculated Number_of_Passengers) * 1000
252      as Deaths_per_1000
253      from mylib.titanic
254      group by pclass
255      ;
256      quit;

```

NOTE: PROCEDURE SQL used (Total process time):

```

real time          0.01 seconds
user cpu time      0.01 seconds
system cpu time    0.01 seconds
memory            6037.96k
OS Memory          33456.00k
Timestamp          03/20/2025 07:08:01 PM
Step Count        69  Switch Count  0
Page Faults       0
Page Reclaims     207
Page Swaps        0
Voluntary Context Switches  17
Involuntary Context Switches 1
Block Input Operations  0
Block Output Operations  16

```

```

257
258      /* Part 2 Problem 5 */
259      proc means data=sashelp.class noprint;
260      var weight;
261      output out = stats mean = mean_weight;
262      run;

```

NOTE: There were 19 observations read from the data set SASHELP.CLASS.

NOTE: The data set WORK.STATS has 1 observations and 3 variables.

NOTE: PROCEDURE MEANS used (Total process time):

```

real time          0.00 seconds
user cpu time      0.00 seconds
system cpu time    0.00 seconds
memory            6978.37k
OS Memory          34768.00k
Timestamp          03/20/2025 07:08:01 PM
Step Count        70  Switch Count  3
Page Faults       0
Page Reclaims     1636
Page Swaps        0
Voluntary Context Switches  36
Involuntary Context Switches 0
Block Input Operations  0
Block Output Operations  264

```

```

263
264      data work.class_new;
265      if _n_ = 1 then set stats;
266      set sashelp.class;
267      Weight_minus_MeanWeight = weight - mean_weight;
268      drop _type_ _freq_;
269      run;

```



NOTE: There were 1 observations read from the data set WORK.STATS.  
 NOTE: There were 19 observations read from the data set SASHELP.CLASS.  
 NOTE: The data set WORK.CLASS\_NEW has 19 observations and 7 variables.  
 NOTE: DATA statement used (Total process time):

real time	0.00 seconds
user cpu time	0.01 seconds
system cpu time	0.00 seconds
memory	1186.65k
OS Memory	28848.00k
Timestamp	03/20/2025 07:08:01 PM
Step Count	71
Page Faults	0
Page Reclaims	119
Page Swaps	0
Voluntary Context Switches	14
Involuntary Context Switches	2
Block Input Operations	0
Block Output Operations	264

```

270
271     proc print data = work.class_new noobs;
272     title "SASHELP.CLASS with Weight_minus_MeanWeight";
273     run;

```

NOTE: There were 19 observations read from the data set WORK.CLASS\_NEW.  
 NOTE: PROCEDURE PRINT used (Total process time):

real time	0.02 seconds
user cpu time	0.02 seconds
system cpu time	0.00 seconds
memory	656.62k
OS Memory	28588.00k
Timestamp	03/20/2025 07:08:01 PM
Step Count	72
Page Faults	0
Page Reclaims	64
Page Swaps	0
Voluntary Context Switches	8
Involuntary Context Switches	1
Block Input Operations	0
Block Output Operations	0

```

274
275     /* Problem 6 */
276     data membership;
277     infile datalines dsd trunccover;
278     length Member_ID $9 Gender $1;
279     input Member_ID : $9.
280     BeginEnroll : ?? date9.
281     EndEnroll : ?? date9.
282     DOB : ?? date9.
283     Gender : $1.;
284     format BeginEnroll EndEnroll DOB date9.;
285     datalines;

```

NOTE: The data set WORK.MEMBERSHIP has 5 observations and 5 variables.  
 NOTE: DATA statement used (Total process time):

real time	0.00 seconds
user cpu time	0.00 seconds
system cpu time	0.00 seconds
memory	670.71k
OS Memory	28588.00k
Timestamp	03/20/2025 07:08:01 PM
Step Count	73
Page Faults	0
Page Reclaims	85
Page Swaps	0
Voluntary Context Switches	14
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	264

```

291     ;
292     run;
293
294     proc print data = membership noobs;
295     title "Membership Data Listing";
296     run;

```

NOTE: There were 5 observations read from the data set WORK.MEMBERSHIP.  
 NOTE: PROCEDURE PRINT used (Total process time):

real time	0.00 seconds
user cpu time	0.01 seconds
system cpu time	0.00 seconds
memory	639.15k
OS Memory	28588.00k
Timestamp	03/20/2025 07:08:01 PM

```
Step Count          74  Switch Count  1
Page Faults         0
Page Reclaims       62
Page Swaps          0
Voluntary Context Switches  8
Involuntary Context Switches 0
Block Input Operations  0
Block Output Operations  0

297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318      OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
328
```

Results: Program 1.sas

The CONTENTS Procedure

Data Set Name	WORK.IMPORT	Observations	1309
Member Type	DATA	Variables	21
Engine	V9	Indexes	0
Created	03/20/2025 15:08:01	Observation Length	320
Last Modified	03/20/2025 15:08:01	Deleted Observations	0
Protection		Compressed	NO
Data Set Type		Sorted	NO
Label			
Data Representation	SOLARIS_X86_64, LINUX_X86_64, ALPHA_TRU64, LINUX_IA64		
Encoding	utf-8 Unicode (UTF-8)		

Engine/Host Dependent Information

Data Set Page Size	131072
Number of Data Set Pages	4
First Data Page	1
Max Obs per Page	409
Obs in First Data Page	395
Number of Data Set Repairs	0
Filename	/saswork/SAS_work7D160000CB48_odaws02-usw2-2.oda.sas.com/SAS_work28BF0000CB48_odaws02-usw2-2.oda.sas.com/import.sas7bdat
Release Created	9.0401M7
Host Created	Linux
Inode Number	2684363634
Access Permission	rw-r--r--
Owner Name	u63613043
File Size	640KB
File Size (bytes)	655360

Alphabetic List of Variables and Attributes

#	Variable	Type	Len	Format	Informat
6	Age	Num	8	BEST12.	BEST32.
15	Age_wiki	Num	8	BEST12.	BEST32.
17	Boarded	Char	11	\$11.	\$11.
20	Body	Char	5	\$5.	\$5.
11	Cabin	Char	4	\$4.	\$4.
21	Class	Num	8	BEST12.	BEST32.
18	Destination	Char	41	\$41.	\$41.
12	Embarked	Char	1	\$1.	\$1.
10	Fare	Num	8	BEST12.	BEST32.
16	Hometown	Char	36	\$36.	\$36.
19	Lifeboat	Char	3	\$3.	\$3.
4	Name	Char	57	\$57.	\$57.
14	Name_wiki	Char	55	\$55.	\$55.
8	Parch	Num	8	BEST12.	BEST32.

Alphabetic List of Variables and Attributes					
#	Variable	Type	Len	Format	Informat
1	PassengerId	Num	8	BEST12.	BEST32.
3	Pclass	Num	8	BEST12.	BEST32.
5	Sex	Char	6	\$6.	\$6.
7	SibSp	Num	8	BEST12.	BEST32.
2	Survived	Num	8	BEST12.	BEST32.
9	Ticket	Char	16	\$16.	\$16.
13	Wikild	Num	8	BEST12.	BEST32.

Total_Observations	Total_Variables
1309	21

Column Name	Column Type	Column Length	Column Format	Column Label
PassengerId	num	8	BEST12.	
Survived	num	8	BEST12.	
Pclass	num	8	BEST12.	
Name	char	57	\$57.	
Sex	char	6	\$6.	
Age	num	8	BEST12.	
SibSp	num	8	BEST12.	
Parch	num	8	BEST12.	
Ticket	char	16	\$16.	
Fare	num	8	BEST12.	
Cabin	char	4	\$4.	
Embarked	char	1	\$1.	
Wikild	num	8	BEST12.	
Name_wiki	char	55	\$55.	
Age_wiki	num	8	BEST12.	
Hometown	char	36	\$36.	
Boarded	char	11	\$11.	
Destination	char	41	\$41.	
Lifeboat	char	3	\$3.	
Body	char	5	\$5.	
Class	num	8	BEST12.	

Numeric Variables = 10  
Character Variables = 11

Number of Deaths by Passenger Class

Passenger Class	Number of Deaths
Upper Class	80
Middle Class	97
Lower Class	372

Number of Deaths by Passenger Class

Passenger_Class	Number_of_Passengers	Number_of_Deaths	Deaths_per_1000
Upper Class	323	80	247.678
Middle Class	277	97	350.1805
Lower Class	709	372	524.6827

SASHELP.CLASS with Weight\_minus\_MeanWeight

mean_weight	Name	Sex	Age	Height	Weight	Weight_minus_MeanWeight
100.026	Alfred	M	14	69.0	112.5	12.4737
100.026	Alice	F	13	56.5	84.0	-16.0263
100.026	Barbara	F	13	65.3	98.0	-2.0263
100.026	Carol	F	14	62.8	102.5	2.4737
100.026	Henry	M	14	63.5	102.5	2.4737
100.026	James	M	12	57.3	83.0	-17.0263
100.026	Jane	F	12	59.8	84.5	-15.5263
100.026	Janet	F	15	62.5	112.5	12.4737
100.026	Jeffrey	M	13	62.5	84.0	-16.0263
100.026	John	M	12	59.0	99.5	-0.5263
100.026	Joyce	F	11	51.3	50.5	-49.5263

mean_weight	Name	Sex	Age	Height	Weight	Weight_minus_MeanWeight
100.026	Judy	F	14	64.3	90.0	-10.0263
100.026	Louise	F	12	56.3	77.0	-23.0263
100.026	Mary	F	15	66.5	112.0	11.9737
100.026	Philip	M	16	72.0	150.0	49.9737
100.026	Robert	M	12	64.8	128.0	27.9737
100.026	Ronald	M	15	67.0	133.0	32.9737
100.026	Thomas	M	11	57.5	85.0	-15.0263
100.026	William	M	15	66.5	112.0	11.9737

Membership Data Listing

Member_ID	Gender	BeginEnroll	EndEnroll	DOB
M00008501	M	05FEB2013	31DEC2013	14MAY1930
M00008502	F	.	31DEC2013	24MAY1930
M00008503	F	15JUL2013	.	.
M00008504	M	25AUG2013	31DEC2013	14MAY1930
M00008505	F	.	31DEC2013	14MAY1930