

Program Summary - Assi2.sas

Execution Environment

Author: u59397413
File: /home/u59397413/BAN100/Assi2.sas
SAS Platform: Linux LIN X64 3.10.0-1062.9.1.el7.x86_64
SAS Host: ODAWS01-USW2.ODA.SAS.COM
SAS Version: 9.04.01M6P11072018
SAS Locale: en_US
Submission Time: 12/27/2021, 11:02:58 PM
Browser Host: CPEC09435E4AB5B-CMC09435E4AB59.CPE.NET.CABLE.ROGERS.COM
User Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/96.0.4664.110 Safari/537.36 Edg/96.0.1054.62
Application Server: ODAMID00-USW2.ODA.SAS.COM

Code: Assi2.sas

```
/*Relation with Baby's Gender*/;  
libname PSlib '/home/u59397413/BAN100';
```



Log: Assi2.sas

Notes (50)

```
1      OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
68
69      /*Relation with Baby's Gender*/;
70      libname PSlib '/home/u59397413/BAN100';
NOTE: Libref PSLIB refers to the same physical library as MYLIB.
NOTE: Libref PSLIB was successfully assigned as follows:
      Engine:          V9
      Physical Name: /home/u59397413/BAN100
71      proc import
72          datafile='/home/u59397413/BAN100/Gender_Birth.xlsx'
73          out=PSlib.Gender_Birth
74          dbms=xlsx
75          replace;
76      run;
```

NOTE: One or more variables were converted because the data type is not supported by the V9 engine. For more details, run with options MSGLEVEL=I.

NOTE: The import data set has 50000 observations and 2 variables.

NOTE: PSLIB.GENDER_BIRTH data set was successfully created.

NOTE: PROCEDURE IMPORT used (Total process time):

real time	1.22 seconds
user cpu time	1.20 seconds
system cpu time	0.00 seconds
memory	3606.71k
OS Memory	34980.00k

```

Timestamp          12/28/2021 04:02:27 AM
Step Count          103  Switch Count  6
Page Faults         0
Page Reclaims       746
Page Swaps          0
Voluntary Context Switches  72
Involuntary Context Switches 1
Block Input Operations 1304
Block Output Operations 1800

```

```

77
78      proc ttest
79      data=PSlib.Gender_Birth;
80      class Gender;
81      var Weight;
82      run;

```

NOTE: PROCEDURE TTEST used (Total process time):

```

real time          1.77 seconds
user cpu time       1.16 seconds
system cpu time     0.24 seconds
memory             24139.78k
OS Memory           51472.00k
Timestamp           12/28/2021 04:02:29 AM
Step Count          104  Switch Count  107
Page Faults         0
Page Reclaims       50429
Page Swaps          0
Voluntary Context Switches  9583
Involuntary Context Switches 4
Block Input Operations 1824
Block Output Operations 90808

```

```

83
84      *Relation with Marital status;
85      libname PSlib '/home/u59397413/BAN100';

```

NOTE: Libref PSLIB refers to the same physical library as MYLIB.

NOTE: Libref PSLIB was successfully assigned as follows:

```

Engine:            V9
Physical Name:     /home/u59397413/BAN100

```

```

86      proc import
87          datafile='/home/u59397413/BAN100/Marriage_Birth.xlsx'
88          out=PSlib.Marriage_Birth
89          dbms=xlsx
90          replace;
91      run;

```

NOTE: One or more variables were converted because the data type is not supported by the V9 engine. For more details, run with options MSGLEVEL=I.

NOTE: The import data set has 50000 observations and 2 variables.

NOTE: PSLIB.MARRIAGE_BIRTH data set was successfully created.

NOTE: PROCEDURE IMPORT used (Total process time):

real time	1.21 seconds
user cpu time	1.20 seconds
system cpu time	0.00 seconds
memory	4038.81k
OS Memory	41132.00k
Timestamp	12/28/2021 04:02:30 AM
Step Count	105
Page Faults	0
Page Reclaims	638
Page Swaps	0
Voluntary Context Switches	79
Involuntary Context Switches	5
Block Input Operations	1296
Block Output Operations	2568

```

92
93      proc ttest
94          data=PSlib.Marriage_Birth;
95          class MaritalStatus;
96          var Weight;
97      run;

```

NOTE: PROCEDURE TTEST used (Total process time):

real time	1.90 seconds
user cpu time	1.35 seconds
system cpu time	0.26 seconds
memory	17681.21k
OS Memory	53272.00k
Timestamp	12/28/2021 04:02:32 AM

Step Count	106	Switch Count	106
Page Faults	0		
Page Reclaims	50540		
Page Swaps	0		
Voluntary Context Switches	9987		
Involuntary Context Switches	2		
Block Input Operations	2592		
Block Output Operations	114624		

98

99 *Relation with Smoking;

100 libname PSlib '/home/u59397413/BAN100';

NOTE: Libref PSLIB refers to the same physical library as MYLIB.

NOTE: Libref PSLIB was successfully assigned as follows:

Engine: V9

Physical Name: /home/u59397413/BAN100

101 proc import

102 datafile='/home/u59397413/BAN100/Smoke_Birth.xlsx'

103 out=PSlib.Smoke_Birth

104 dbms=xlsx

105 replace;

106 run;

NOTE: One or more variables were converted because the data type is not supported by the V9 engine. For more details, run with options MSGLEVEL=I.

NOTE: The import data set has 50000 observations and 2 variables.

NOTE: PSLIB.SMOKE_BIRTH data set was successfully created.

NOTE: PROCEDURE IMPORT used (Total process time):

real time 1.24 seconds

user cpu time 1.23 seconds

system cpu time 0.00 seconds

memory 4021.59k

OS Memory 41388.00k

Timestamp 12/28/2021 04:02:33 AM

Step Count	107	Switch Count	6
------------	-----	--------------	---

Page Faults	0
-------------	---

Page Reclaims	636
---------------	-----

Page Swaps	0
------------	---

Voluntary Context Switches	75
----------------------------	----

Involuntary Context Switches	2
------------------------------	---

Block Input Operations	1280
------------------------	------

```
107
108     proc ttest
109     data=PSlib.Smoke_Birth;
110     class MomSmoke;
111     var Weight;
112     run;
```

NOTE: PROCEDURE TTEST used (Total process time):

real time	2.07 seconds
user cpu time	1.51 seconds
system cpu time	0.27 seconds
memory	17494.78k
OS Memory	52860.00k
Timestamp	12/28/2021 04:02:35 AM
Step Count	108
Switch Count	109
Page Faults	0
Page Reclaims	51045
Page Swaps	0
Voluntary Context Switches	9946
Involuntary Context Switches	7
Block Input Operations	2592
Block Output Operations	129944

```
113
114     /*Relation with Mom Weight Gain*/;
115     libname PSlib '/home/u59397413/BAN100';
NOTE: Libref PSLIB refers to the same physical library as MYLIB.
NOTE: Libref PSLIB was successfully assigned as follows:
Engine:          V9
Physical Name: /home/u59397413/BAN100
```

```
116     proc import
117     datafile='/home/u59397413/BAN100/BirthTranspose1.xlsx'
118     out=PSlib.BirthTranspose1
119     dbms=xlsx
120     replace;
121     run;
```

NOTE: One or more variables were converted because the data type is not supported by the V9 engine. For more details, run with

options MSGLEVEL=I.

NOTE: The import data set has 200000 observations and 4 variables.

NOTE: PSLIB.BIRTHTRANPOSE1 data set was successfully created.

NOTE: PROCEDURE IMPORT used (Total process time):

real time	3.84 seconds
user cpu time	3.82 seconds
system cpu time	0.00 seconds
memory	4059.71k
OS Memory	40876.00k
Timestamp	12/28/2021 04:02:39 AM
Step Count	109
Page Faults	0
Page Reclaims	614
Page Swaps	0
Voluntary Context Switches	150
Involuntary Context Switches	5
Block Input Operations	3368
Block Output Operations	9480

```
122
123     proc ttest
124     data=PSlib.BirthTranspose1;
125     class VariableName;
126     var Factor;
127     run;
```

NOTE: PROCEDURE TTEST used (Total process time):

real time	2.82 seconds
user cpu time	2.13 seconds
system cpu time	0.30 seconds
memory	20657.96k
OS Memory	55884.00k
Timestamp	12/28/2021 04:02:42 AM
Step Count	110
Page Faults	0
Page Reclaims	53756
Page Swaps	0
Voluntary Context Switches	13890
Involuntary Context Switches	3
Block Input Operations	9504
Block Output Operations	182200

```
128
129      /*Relation with CigsPerDay*/;
130      libname PSlib '/home/u59397413/BAN100';
NOTE: Libref PSLIB refers to the same physical library as MYLIB.
NOTE: Libref PSLIB was successfully assigned as follows:
      Engine:          V9
      Physical Name: /home/u59397413/BAN100
131      proc import
132          datafile='/home/u59397413/BAN100/BirthTranspose2.xlsx'
133          out=PSlib.BirthTranspose2
134          dbms=xlsx
135          replace;
136      run;
```

NOTE: One or more variables were converted because the data type is not supported by the V9 engine. For more details, run with options MSGLEVEL=I.

NOTE: The import data set has 100000 observations and 2 variables.

NOTE: PSLIB.BIRTHTRANPOSE2 data set was successfully created.

NOTE: PROCEDURE IMPORT used (Total process time):

real time	2.43 seconds
user cpu time	2.42 seconds
system cpu time	0.00 seconds
memory	4022.84k
OS Memory	41132.00k
Timestamp	12/28/2021 04:02:44 AM
Step Count	111
Page Faults	0
Page Reclaims	613
Page Swaps	0
Voluntary Context Switches	105
Involuntary Context Switches	3
Block Input Operations	2168
Block Output Operations	4872

```
137
138      proc ttest
139          data=PSlib.BirthTranspose2;
140          class VariableName;
141          var Factor;
```

142 run;

NOTE: PROCEDURE TTEST used (Total process time):

real time	4.03 seconds
user cpu time	2.72 seconds
system cpu time	0.40 seconds
memory	20641.96k
OS Memory	56144.00k
Timestamp	12/28/2021 04:02:48 AM
Step Count	112 Switch Count 110
Page Faults	0
Page Reclaims	53712
Page Swaps	0
Voluntary Context Switches	49150
Involuntary Context Switches	4
Block Input Operations	4896
Block Output Operations	181416

143

144 /*Relation with Mom's Age*/;

145 libname PSlib '/home/u59397413/BAN100';

NOTE: Libref PSLIB refers to the same physical library as MYLIB.

NOTE: Libref PSLIB was successfully assigned as follows:

Engine: V9

Physical Name: /home/u59397413/BAN100

```
146       proc import
147        datafile='/home/u59397413/BAN100/BirthTranspose3.xlsx'
148        out=PSlib.BirthTranspose3
149        dbms=xlsx
150        replace;
151        run;
```

NOTE: One or more variables were converted because the data type is not supported by the V9 engine. For more details, run with options MSGLEVEL=I.

NOTE: The import data set has 100000 observations and 2 variables.

NOTE: PSLIB.BIRTHTRANPOSE3 data set was successfully created.

NOTE: PROCEDURE IMPORT used (Total process time):

real time	2.44 seconds
user cpu time	2.43 seconds
system cpu time	0.00 seconds
memory	4037.37k

OS Memory	40876.00k	
Timestamp	12/28/2021 04:02:51 AM	
Step Count	113	Switch Count 6
Page Faults	0	
Page Reclaims	615	
Page Swaps	0	
Voluntary Context Switches	100	
Involuntary Context Switches	4	
Block Input Operations	2288	
Block Output Operations	3336	

```
152
153      *running t test;
154      proc ttest
155      data=PSlib.BirthTranspose3;
156      class VariableName;
157      var Factor;
158      run;
```

NOTE: PROCEDURE TTEST used (Total process time):

real time	2.65 seconds	
user cpu time	1.97 seconds	
system cpu time	0.28 seconds	
memory	20706.90k	
OS Memory	55888.00k	
Timestamp	12/28/2021 04:02:54 AM	
Step Count	114	Switch Count 111
Page Faults	0	
Page Reclaims	53686	
Page Swaps	0	
Voluntary Context Switches	9948	
Involuntary Context Switches	3	
Block Input Operations	3360	
Block Output Operations	173008	

```
159
160      libname PSlib '/home/u59397413/BAN100';
NOTE: Libref PSLIB refers to the same physical library as MYLIB.
NOTE: Libref PSLIB was successfully assigned as follows:
Engine:          V9
```

Physical Name: /home/u59397413/BAN100

```
161      proc import
162          datafile='/home/u59397413/BAN100/FileBIRTH.xlsx'
163          out=PSlib.FileBIRTH
164          dbms=xlsx
165          replace;
166      run;
```

NOTE: The import data set has 50000 observations and 10 variables.

NOTE: PSLIB.FILEBIRTH data set was successfully created.

NOTE: PROCEDURE IMPORT used (Total process time):

real time	4.42 seconds
user cpu time	4.40 seconds
system cpu time	0.01 seconds
memory	4038.87k
OS Memory	41132.00k
Timestamp	12/28/2021 04:02:58 AM
Step Count	115
Page Faults	0
Page Reclaims	615
Page Swaps	0
Voluntary Context Switches	104
Involuntary Context Switches	9
Block Input Operations	4296
Block Output Operations	8224

```
167
168      proc sgplot
169          data=PSlib.FileBIRTH;
170          scatter x=Weight y=MomWtGain;
171      run;
```

NOTE: PROCEDURE SGPLOT used (Total process time):

real time	0.16 seconds
user cpu time	0.06 seconds
system cpu time	0.00 seconds
memory	2575.00k
OS Memory	40244.00k
Timestamp	12/28/2021 04:02:58 AM
Step Count	116
Page Faults	0

Page Reclaims 866
Page Swaps 0
Voluntary Context Switches 150
Involuntary Context Switches 0
Block Input Operations 7968
Block Output Operations 2024

NOTE: Marker and line antialiasing has been disabled for at least one plot because the threshold has been reached. You can set ANTIALIASMAX=50000 in the ODS GRAPHICS statement to enable antialiasing for all plots.
NOTE: There were 50000 observations read from the data set PSLIB.FILEBIRTH.

172
173
174 OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
184

Results: Assi2.sas

The TTEST Procedure

Variable: Weight (Weight)

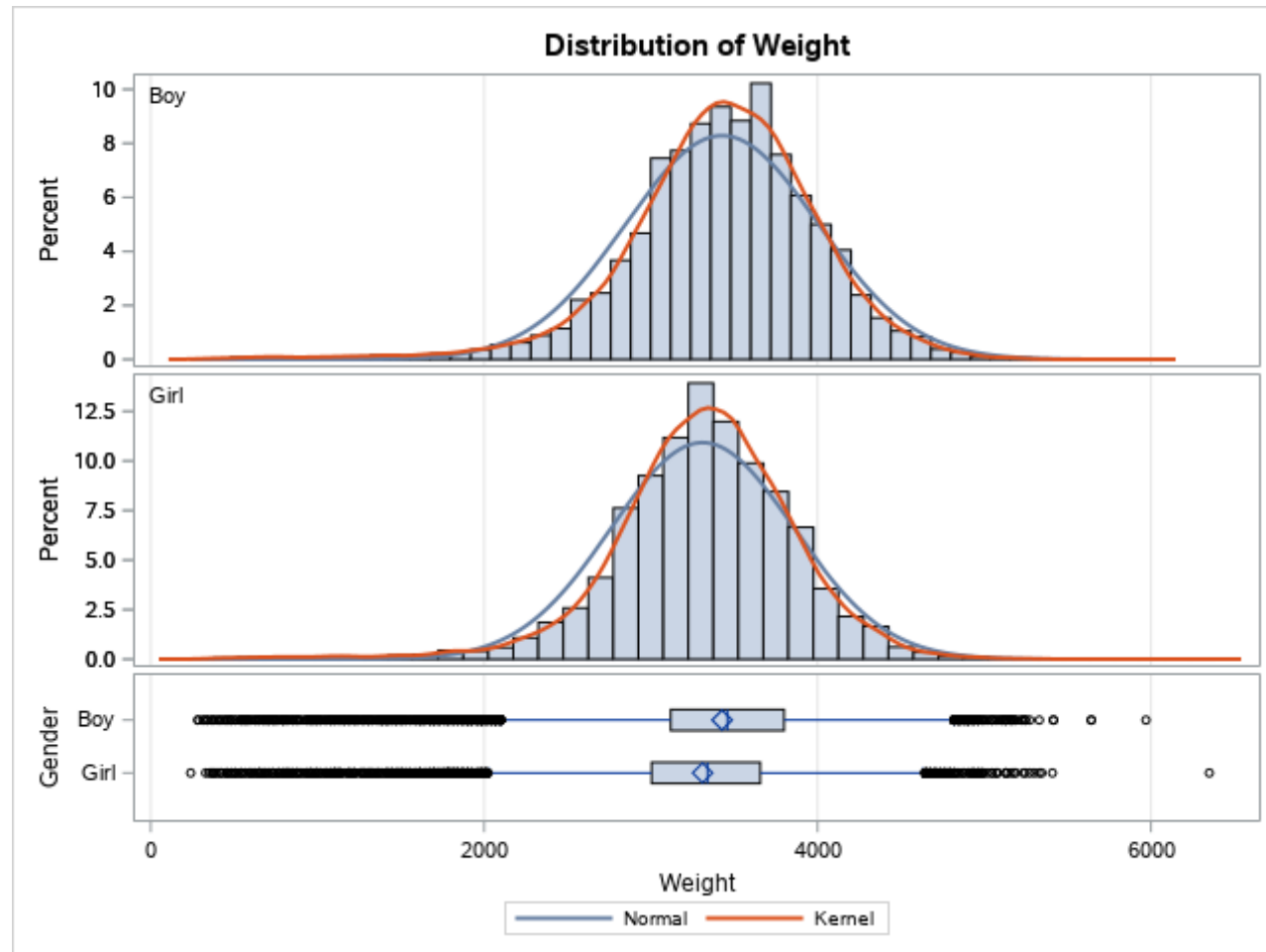
Gender	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
Boy		25792	3427.3	577.7	3.5970	284.0	5970.0
Girl		24208	3310.6	547.7	3.5204	240.0	6350.0
Diff (1-2)	Pooled		116.7	563.4	5.0416		
Diff (1-2)	Satterthwaite		116.7		5.0331		

Gender	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
Boy		3427.3	3420.2	3434.3	577.7	572.7	582.7
Girl		3310.6	3303.7	3317.5	547.7	542.9	552.7
Diff (1-2)	Pooled	116.7	106.8	126.6	563.4	559.9	566.9
Diff (1-2)	Satterthwaite	116.7	106.8	126.6			

Method	Variances	DF	t Value	Pr > t
Pooled	Equal	49998	23.15	<.0001
Satterthwaite	Unequal	49993	23.18	<.0001

Equality of Variances

Method	Num DF	Den DF	F Value	Pr > F
Folded F	25791	24207	1.11	<.0001





The TTEST Procedure

Variable: Weight (Weight)

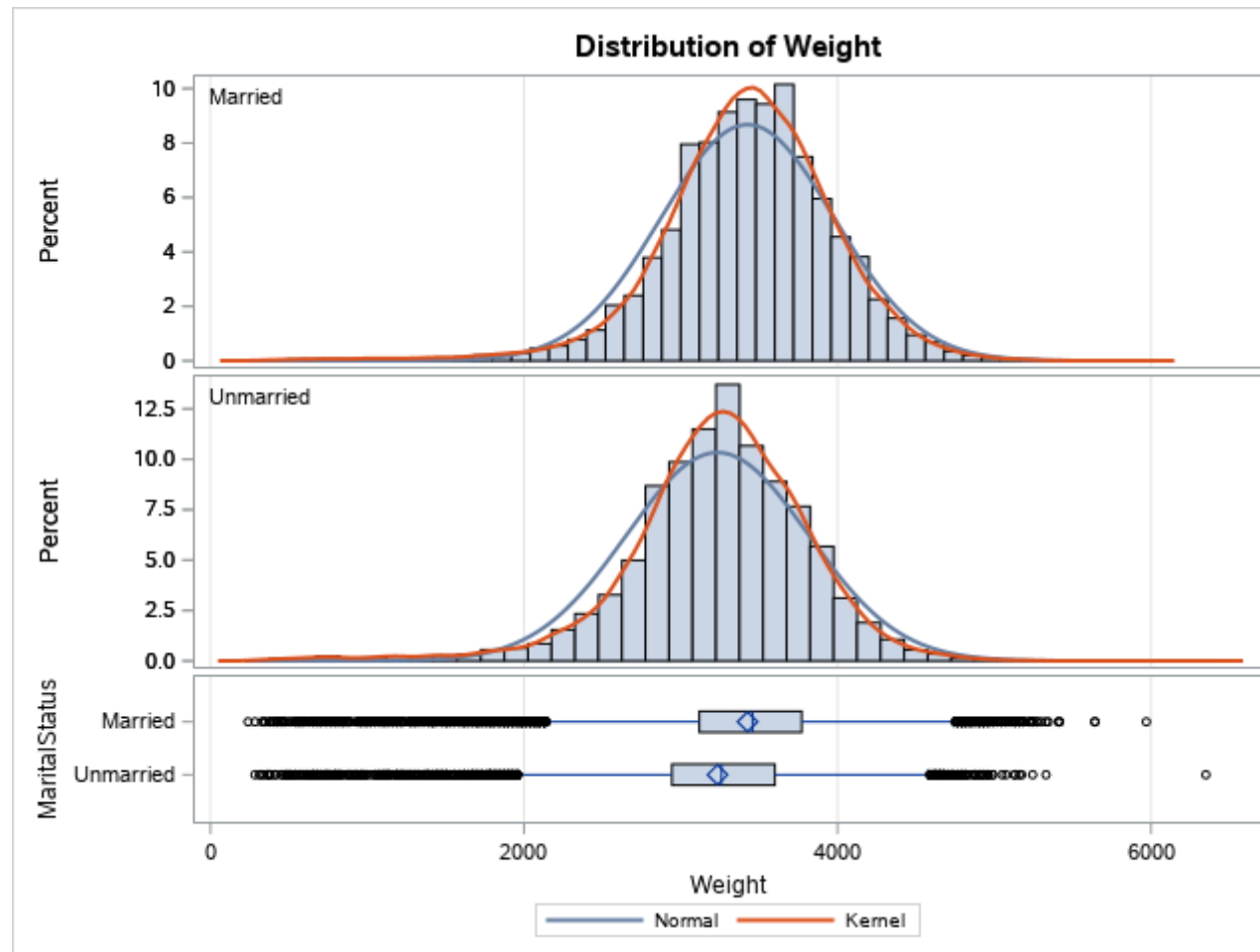
MaritalStatus	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
Married		35631	3425.7	551.8	2.9231	240.0	5970.0
Unmarried		14369	3234.4	579.0	4.8302	284.0	6350.0
Diff (1-2)	Pooled		191.3	559.7	5.5315		
Diff (1-2)	Satterthwaite		191.3		5.6459		

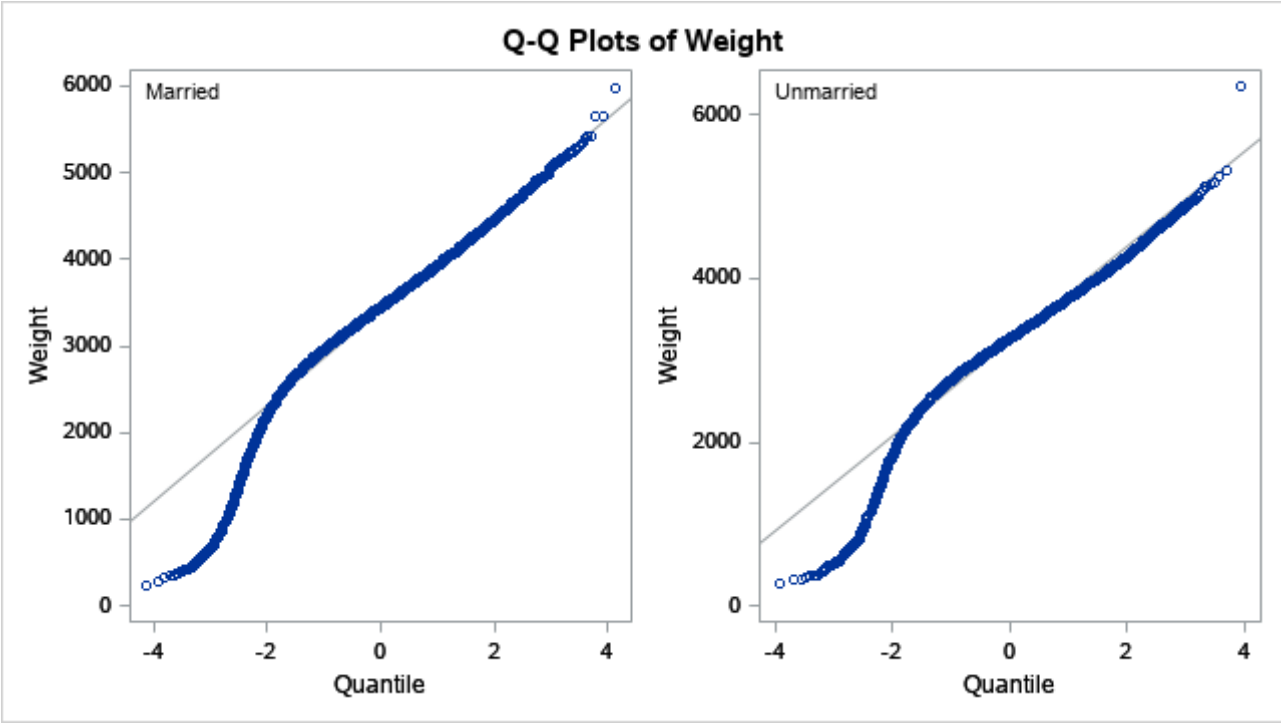
MaritalStatus	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
Married		3425.7	3420.0	3431.5	551.8	547.8	555.9
Unmarried		3234.4	3225.0	3243.9	579.0	572.4	585.8
Diff (1-2)	Pooled	191.3	180.5	202.1	559.7	556.3	563.2
Diff (1-2)	Satterthwaite	191.3	180.2	202.4			

Method	Variances	DF	t Value	Pr > t
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Method	Variances	DF	t Value	Pr > t
Pooled	Equal	49998	34.58	<.0001
Satterthwaite	Unequal	25443	33.88	<.0001

Equality of Variances				
Method	Num DF	Den DF	F Value	Pr > F
Folded F	14368	35630	1.10	<.0001





The TTEST Procedure

Variable: Weight (Weight)

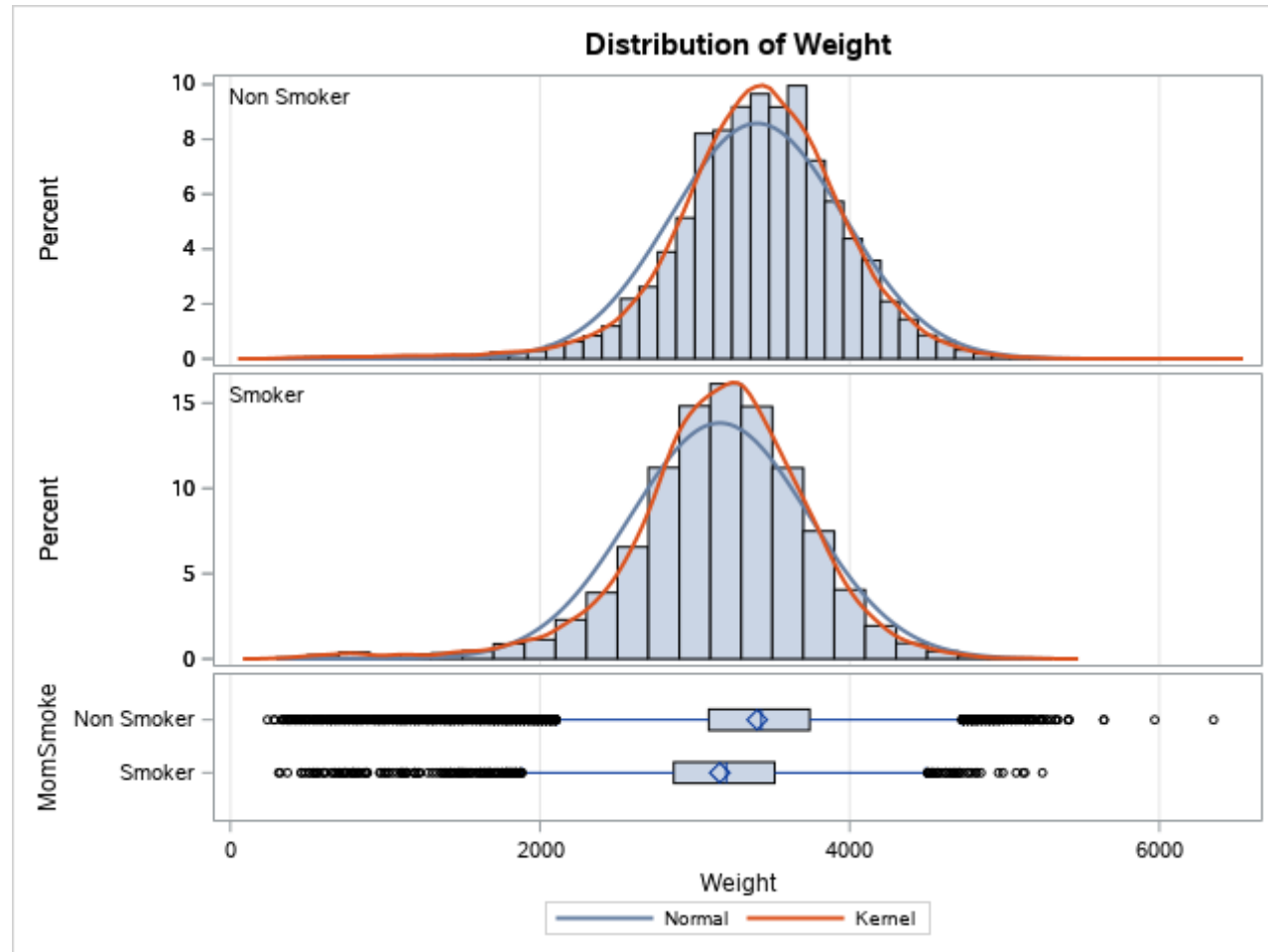
MomSmoke	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
Non Smoker		43467	3402.3	558.0	2.6766	240.0	6350.0
Smoker		6533	3160.9	576.8	7.1358	312.0	5245.0
Diff (1-2)	Pooled		241.5	560.5	7.4376		
Diff (1-2)	Satterthwaite		241.5		7.6213		

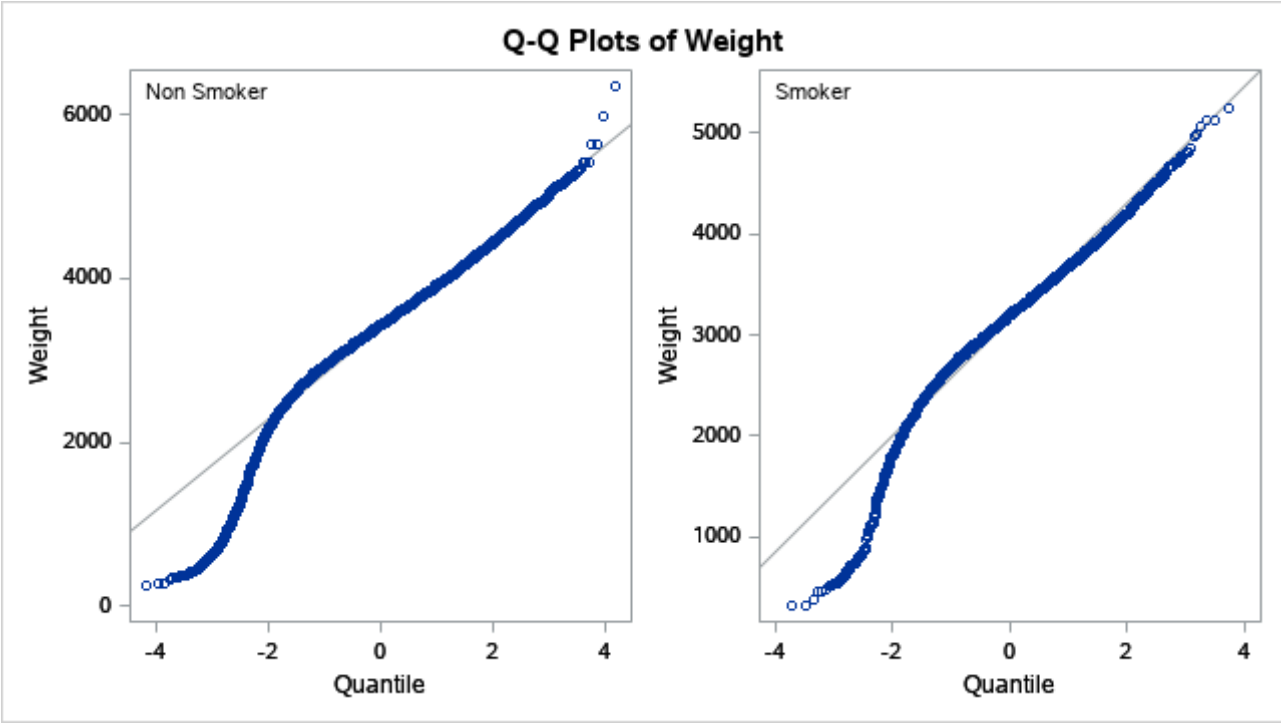
MomSmoke	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
Non Smoker		3402.3	3397.1	3407.6	558.0	554.3	561.8
Smoker		3160.9	3146.9	3174.8	576.8	567.0	586.8
Diff (1-2)	Pooled	241.5	226.9	256.0	560.5	557.1	564.0
Diff (1-2)	Satterthwaite	241.5	226.5	256.4			

Method	Variances	DF	t Value	Pr > t
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Method	Variances	DF	t Value	Pr > t
Pooled	Equal	49998	32.46	<.0001
Satterthwaite	Unequal	8474.1	31.68	<.0001

Equality of Variances				
Method	Num DF	Den DF	F Value	Pr > F
Folded F	6532	43466	1.07	0.0004





The TTEST Procedure

Variable: Factor (Factor)

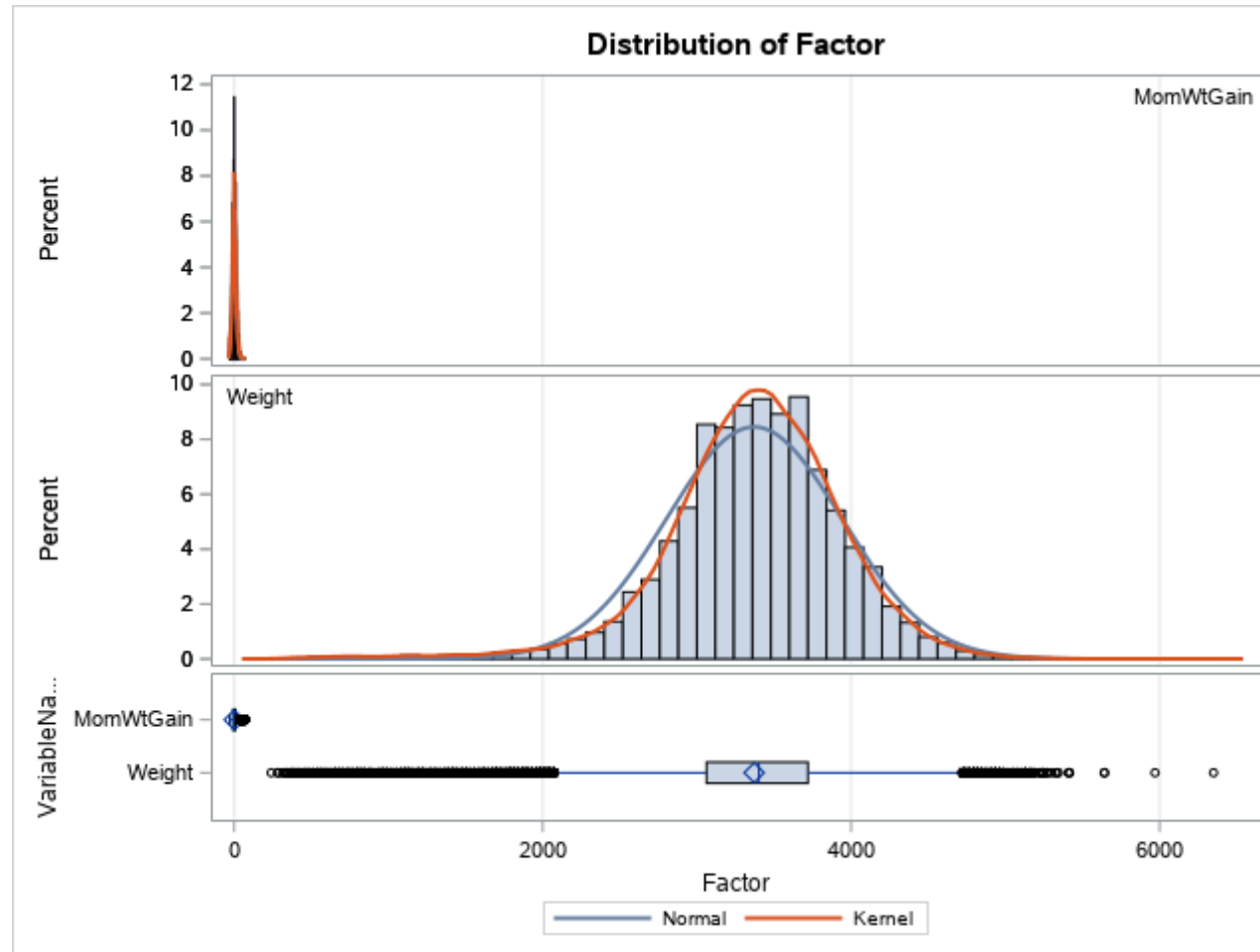
VariableName	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
MomWtGain		50000	0.7092	12.8761	0.0576	-30.0000	68.0000
Weight		50000	3370.8	566.4	2.5330	240.0	6350.0
Diff (1-2)	Pooled		-3370.0	400.6	2.5336		
Diff (1-2)	Satterthwaite		-3370.0		2.5336		

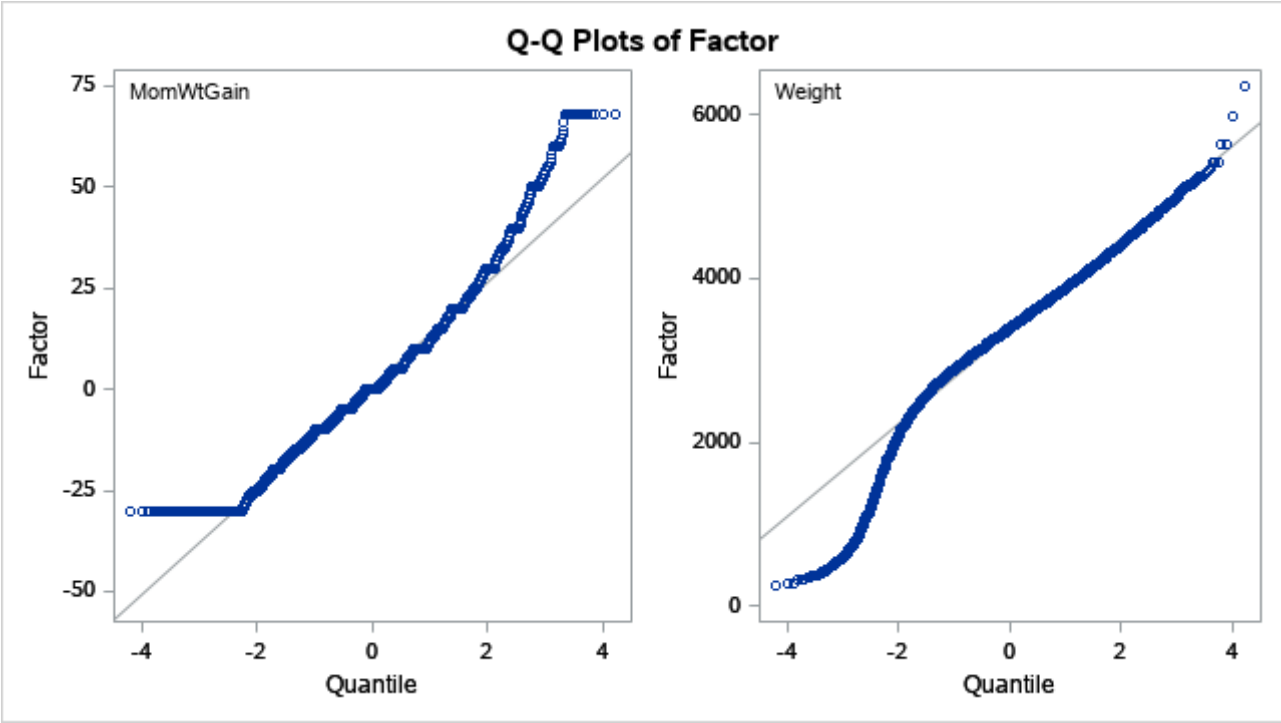
VariableName	Method	Mean	95% CL Mean	Std Dev	95% CL Std Dev
MomWtGain		0.7092	0.5964 0.8221	12.8761	12.7968 12.9564
Weight		3370.8	3365.8 3375.7	566.4	562.9 569.9
Diff (1-2)	Pooled	-3370.0	-3375.0 -3365.1	400.6	398.9 402.4
Diff (1-2)	Satterthwaite	-3370.0	-3375.0 -3365.1		

Method	Variances	DF	t Value	Pr > t
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Method	Variances	DF	t Value	Pr > t
Pooled	Equal	99998	-1330.1	<.0001
Satterthwaite	Unequal	50051	-1330.1	<.0001

Equality of Variances				
Method	Num DF	Den DF	F Value	Pr > F
Folded F	49999	49999	1934.88	<.0001





The TTEST Procedure

Variable: Factor (Factor)

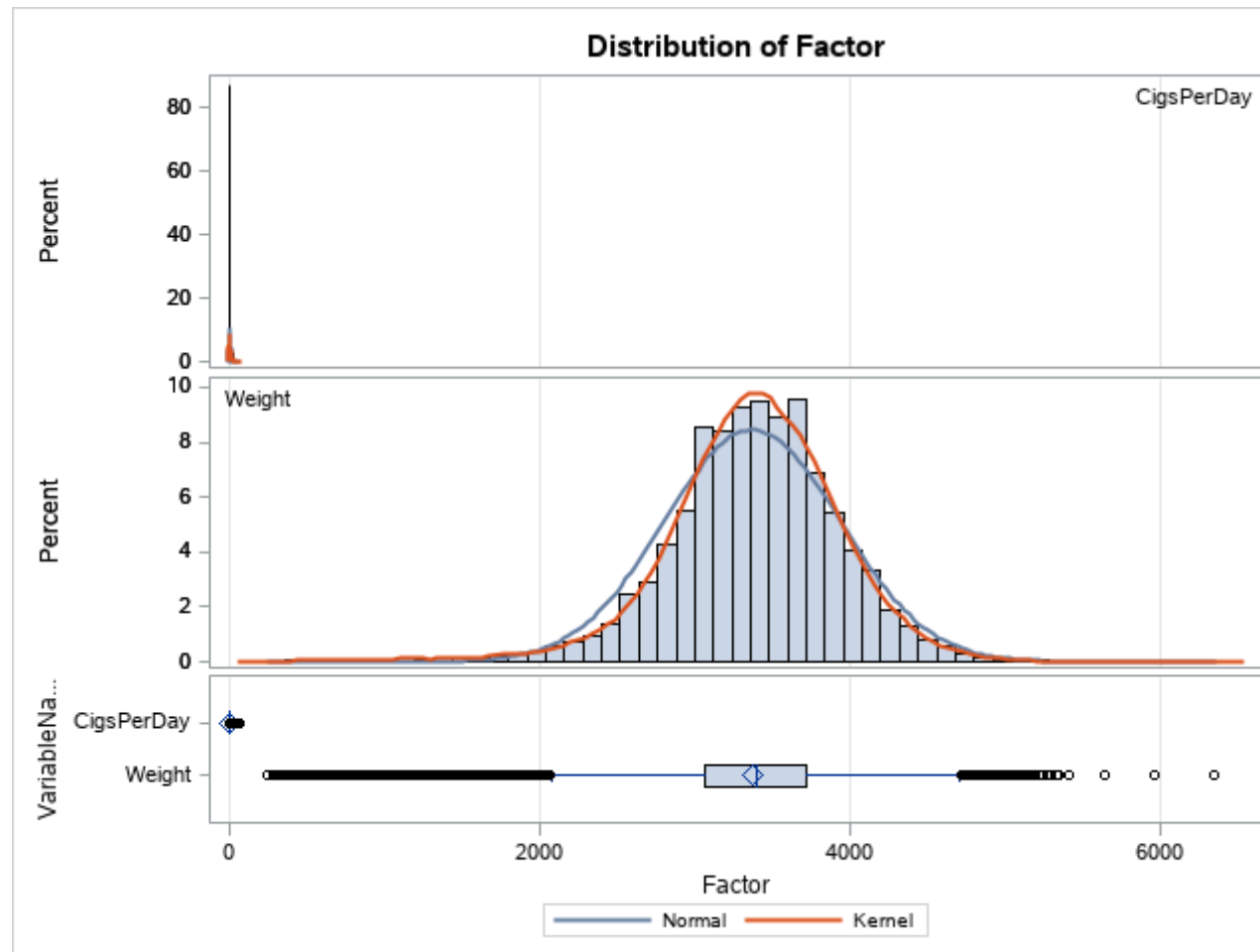
VariableName	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
CigsPerDay		50000	1.4766	4.6541	0.0208	0	60.0000
Weight		50000	3370.8	566.4	2.5330	240.0	6350.0
Diff (1-2)	Pooled		-3369.3	400.5	2.5330		
Diff (1-2)	Satterthwaite		-3369.3		2.5330		

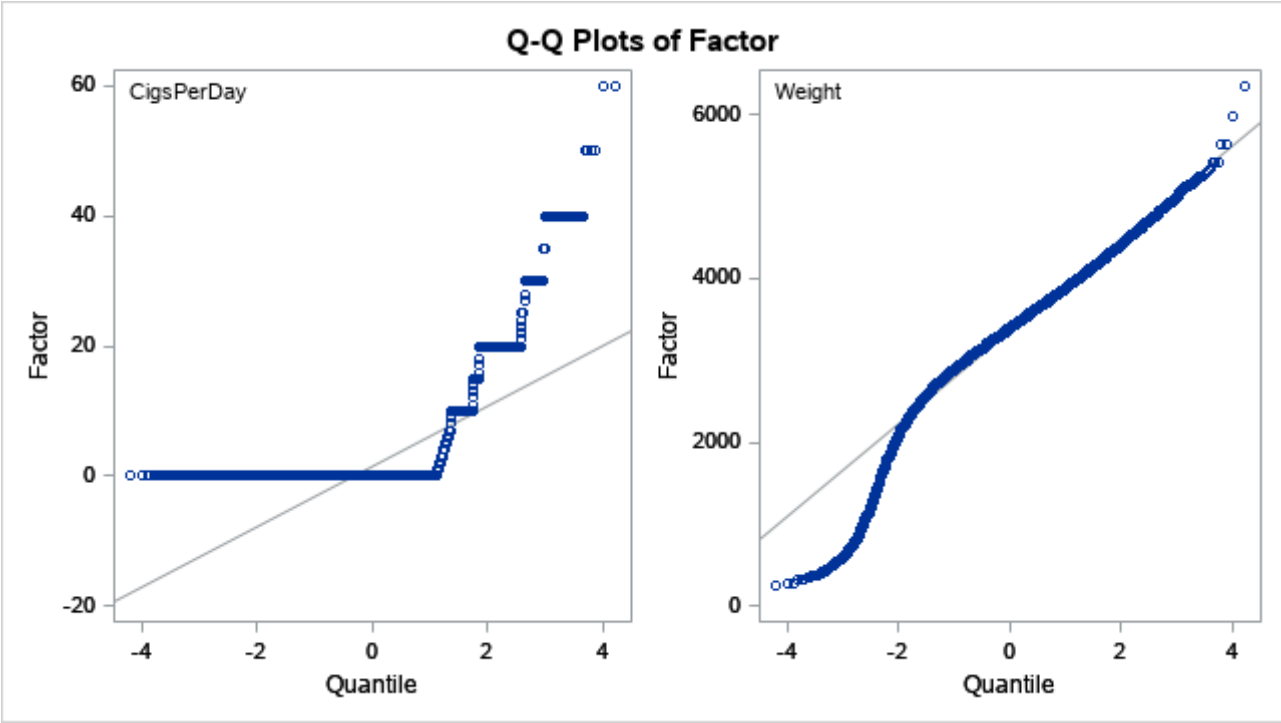
VariableName	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
CigsPerDay		1.4766	1.4358	1.5174	4.6541	4.6254	4.6831
Weight		3370.8	3365.8	3375.7	566.4	562.9	569.9
Diff (1-2)	Pooled	-3369.3	-3374.2	-3364.3	400.5	398.8	402.3
Diff (1-2)	Satterthwaite	-3369.3	-3374.2	-3364.3			

Method	Variances	DF	t Value	Pr > t
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Method	Variances	DF	t Value	Pr > t
Pooled	Equal	99998	-1330.1	<.0001
Satterthwaite	Unequal	50006	-1330.1	<.0001

Equality of Variances				
Method	Num DF	Den DF	F Value	Pr > F
Folded F	49999	49999	14810.1	<.0001





The TTEST Procedure

Variable: Factor (Factor)

VariableName	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
MomAge		50000	0.4161	5.7285	0.0256	-9.0000	18.0000
Weight		50000	3370.8	566.4	2.5330	240.0	6350.0
Diff (1-2)	Pooled		-3370.3	400.5	2.5331		
Diff (1-2)	Satterthwaite		-3370.3		2.5331		

VariableName	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
MomAge		0.4161	0.3659	0.4664	5.7285	5.6932	5.7642
Weight		3370.8	3365.8	3375.7	566.4	562.9	569.9
Diff (1-2)	Pooled	-3370.3	-3375.3	-3365.4	400.5	398.8	402.3
Diff (1-2)	Satterthwaite	-3370.3	-3375.3	-3365.4			

Method	Variances	DF	t Value	Pr > t
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Method	Variances	DF	t Value	Pr > t
Pooled	Equal	99998	-1330.5	<.0001
Satterthwaite	Unequal	50009	-1330.5	<.0001

Equality of Variances				
Method	Num DF	Den DF	F Value	Pr > F
Folded F	49999	49999	9775.72	<.0001

