

**The SAS System****The MEANS Procedure**

Variable	N	Mean	Median	Std Dev	Variance	Minimum	Maximum
Fire	47	12.28	10.40	9.30	86.53	2.00	39.70
Theft	47	30.23	29.00	14.53	211.23	3.00	75.00
Age	47	60.33	65.00	22.57	509.63	2.00	90.10
Income	47	10695.83	10694.00	2754.20	7585606.67	5583.00	21480.00
Race	47	34.99	24.50	32.59	1061.95	1.00	99.70

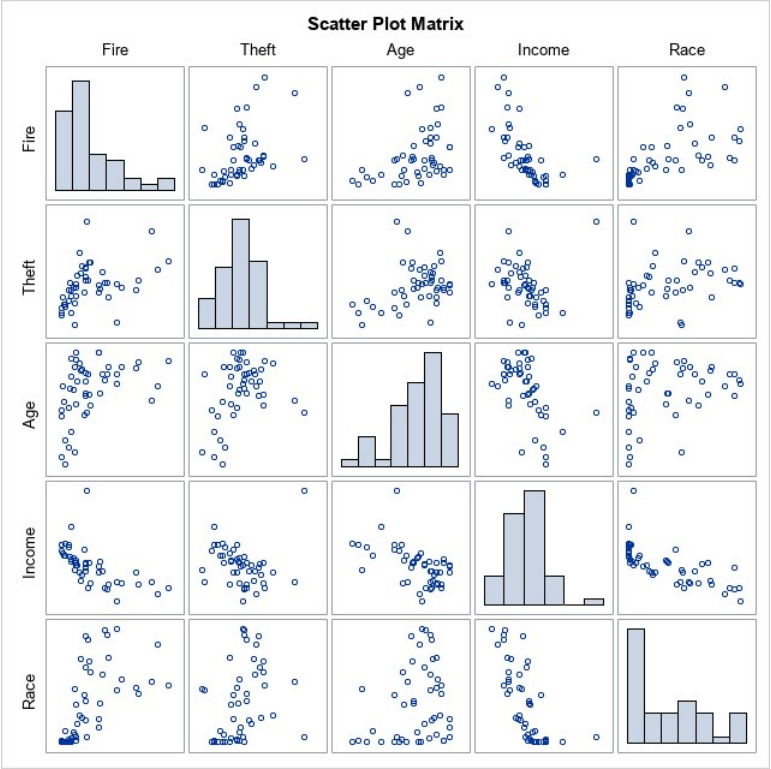
The SAS System

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5 Variables: Fire Theft Age Income Race

Simple Statistics						
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
Fire	47	12.27872	9.30227	577.10000	2.00000	39.70000
Theft	47	30.23404	14.53364	1421	3.00000	75.00000
Age	47	60.32766	22.57496	2835	2.00000	90.10000
Income	47	10696	2754	502704	5583	21480
Race	47	34.98511	32.58761	1644	1.00000	99.70000

Pearson Correlation Coefficients, N = 47 Prob >  r  under H0: Rho=0					
	Fire	Theft	Age	Income	Race
Fire	1.00000	0.41216 0.0040	0.41222 0.0040	-0.61045 <.0001	0.59280 <.0001
Theft	0.41216 0.0040	1.00000	0.33694 0.0206	-0.08943 0.5500	0.32137 0.0276
Age	0.41222 0.0040	0.33694 0.0206	1.00000	-0.52867 0.0001	0.25051 0.0894
Income	-0.61045 <.0001	-0.08943 0.5500	-0.52867 0.0001	1.00000	-0.70373 <.0001
Race	0.59280 <.0001	0.32137 0.0276	0.25051 0.0894	-0.70373 <.0001	1.00000



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Observations	47
Variables	5

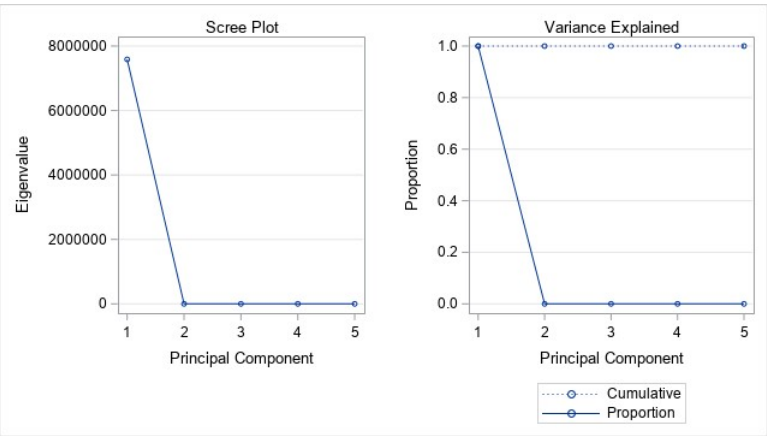
Simple Statistics					
	Fire	Theft	Age	Income	Race
Mean	12.27872340	30.23404255	60.32765957	10695.82979	34.98510638
Std	9.30226565	14.53363829	22.57496403	2754.19801	32.58761420

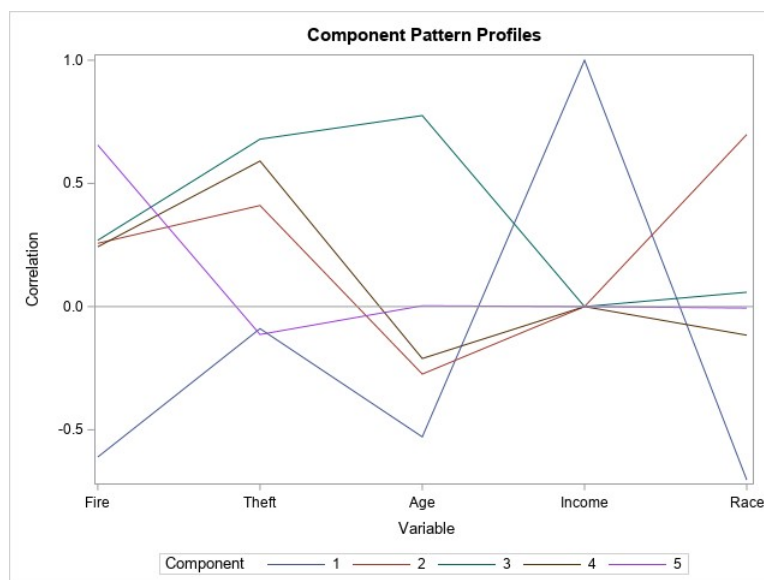
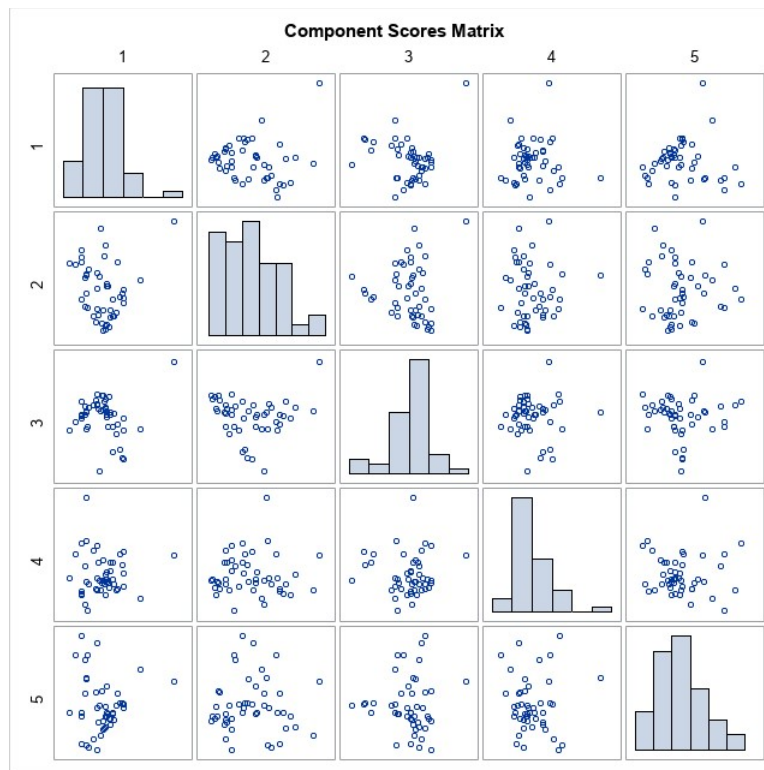
Covariance Matrix					
	Fire	Theft	Age	Income	Race
Fire	86.532	55.722	86.566	-15639.852	179.699
Theft	55.722	211.227	110.550	-3579.785	152.206
Age	86.566	110.550	509.629	-32870.515	184.293
Income	-15639.852	-3579.785	-32870.515	7585606.666	-63161.953
Race	179.699	152.206	184.293	-63161.953	1061.953

Total Variance	7587476.0064
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Eigenvalues of the Covariance Matrix				
	Eigenvalue	Difference	Proportion	Cumulative
1	7586309.00	7585711.46	0.9998	0.9998
2	597.54	183.75	0.0001	0.9999
3	413.79	298.05	0.0001	1.0000
4	115.73	75.78	0.0000	1.0000
5	39.95		0.0000	1.0000

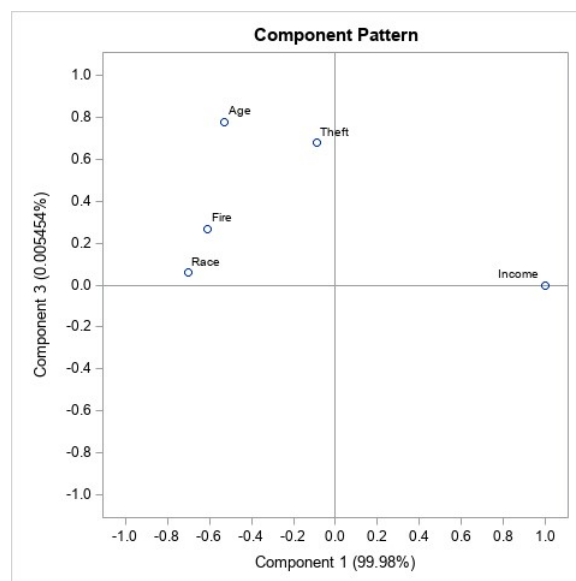
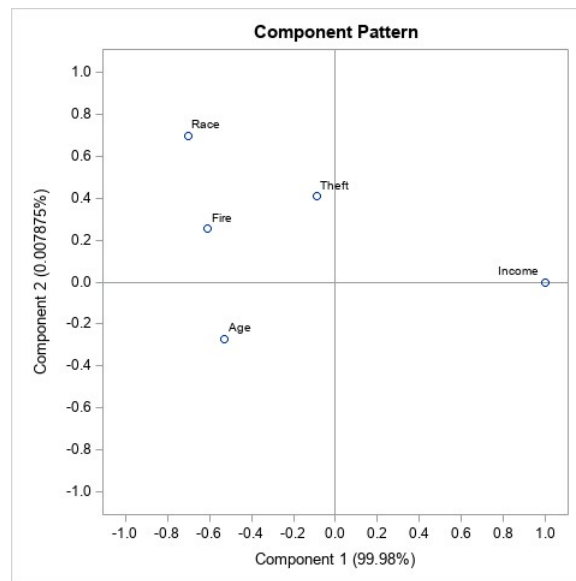
Eigenvectors					
	Prin1	Prin2	Prin3	Prin4	Prin5
Fire	-.002062	0.097741	0.123122	0.209895	0.965001
Theft	-.000472	0.243967	0.485518	0.798134	-.260257
Age	-.004333	-.252841	0.860436	-.442219	0.012005
Income	0.999954	0.006974	0.004990	-.004031	0.001670
Race	-.008327	0.931101	0.093475	-.351215	-.029860

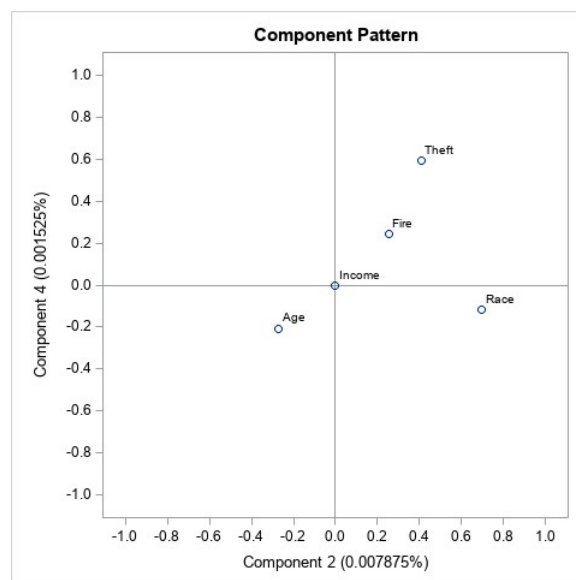
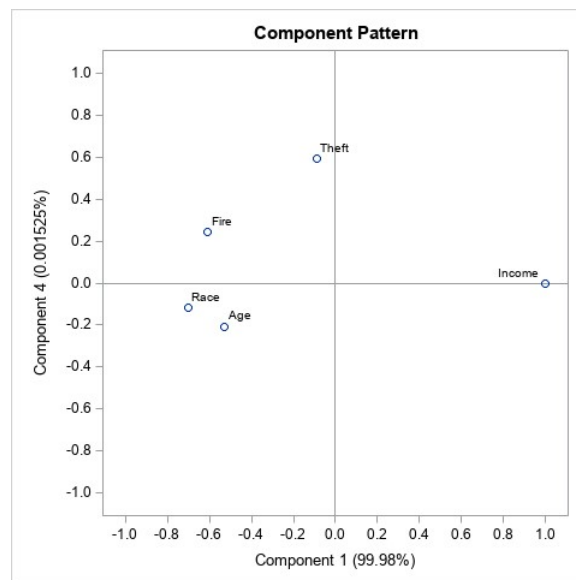
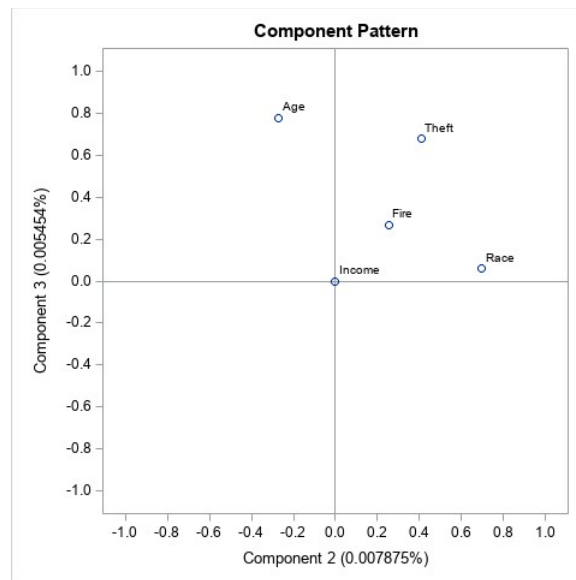


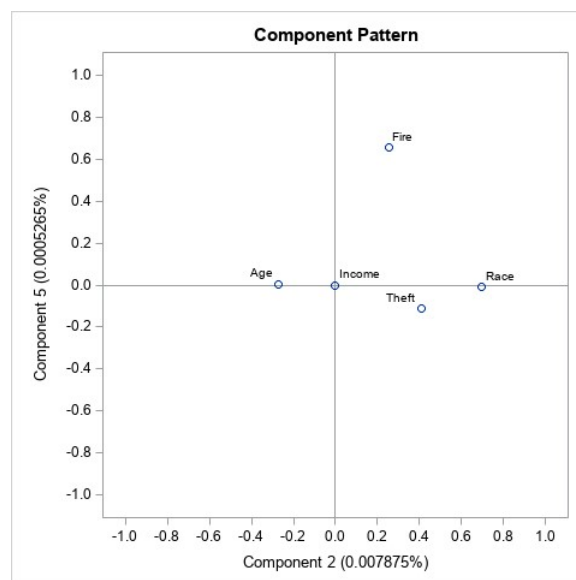
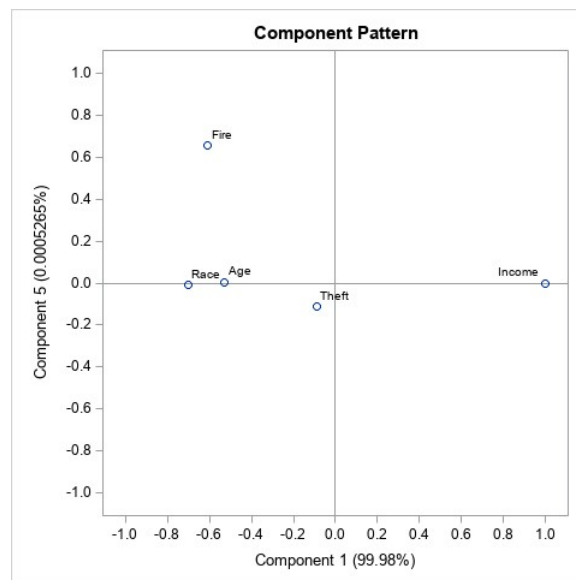
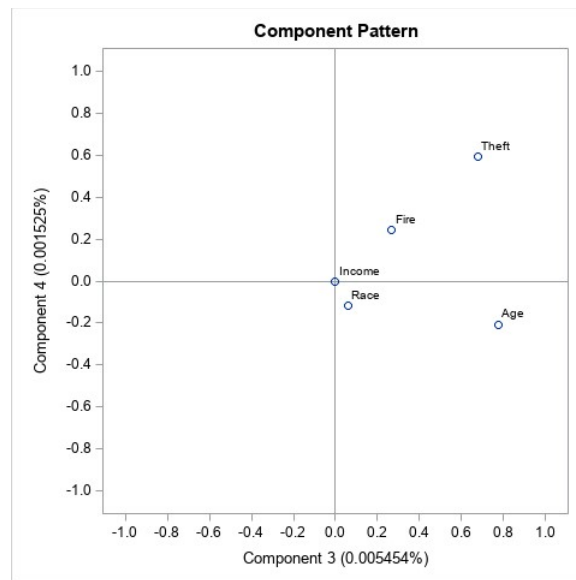


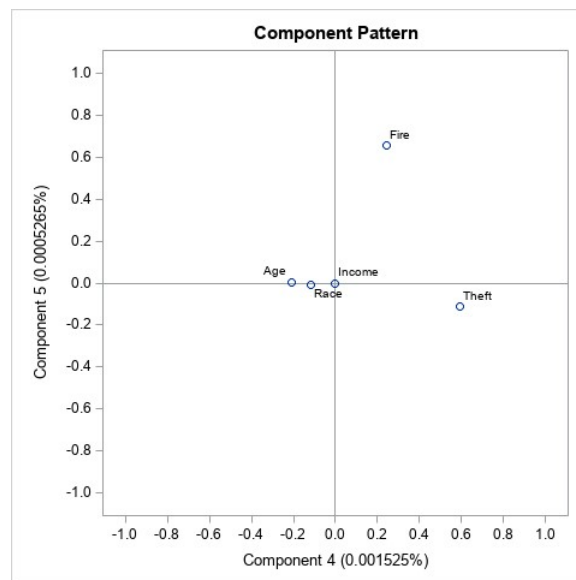
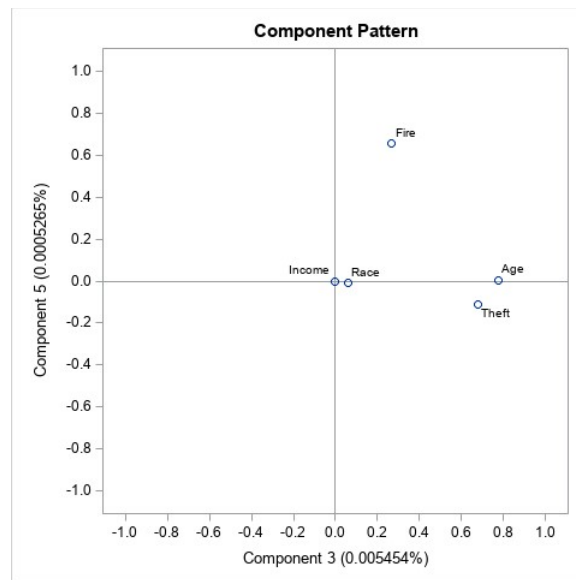
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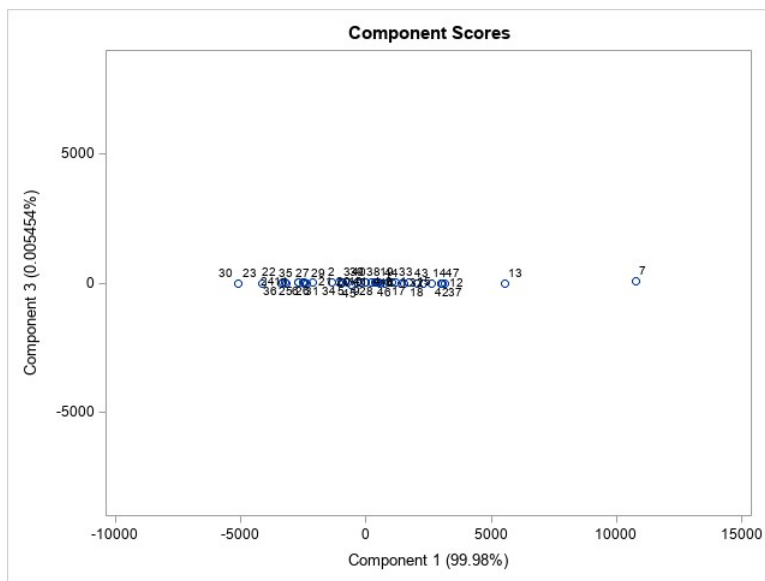
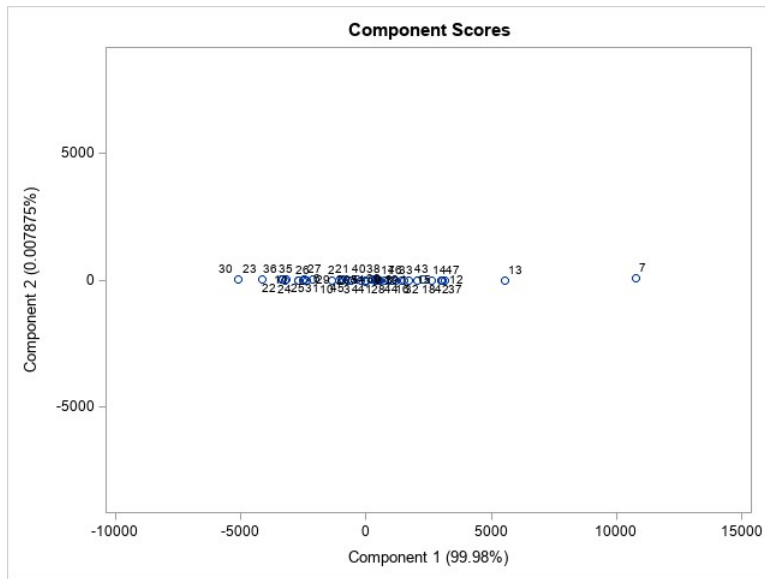


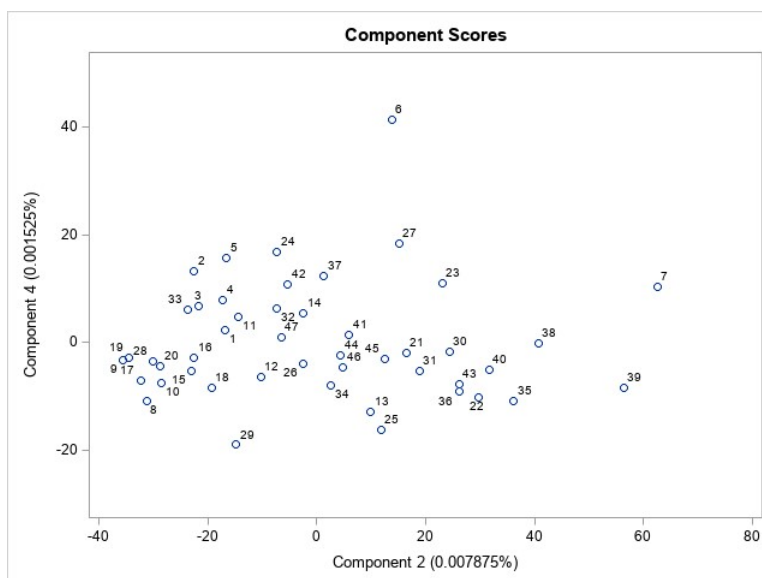
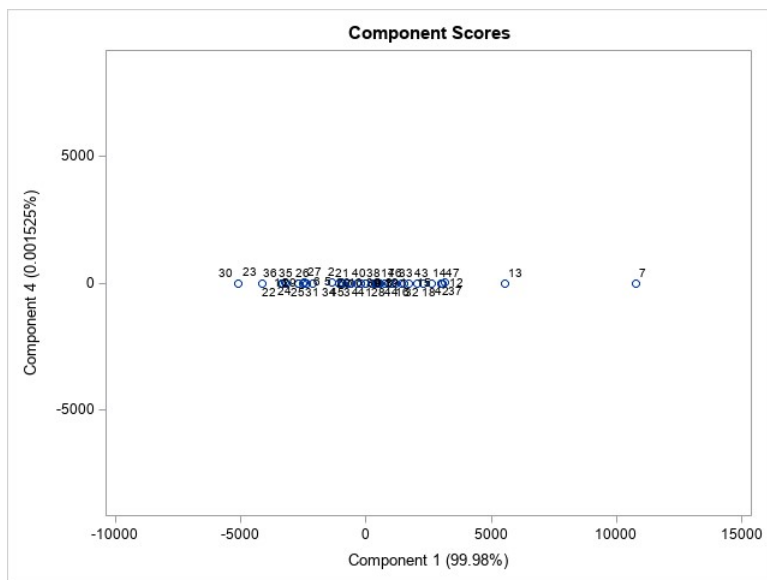
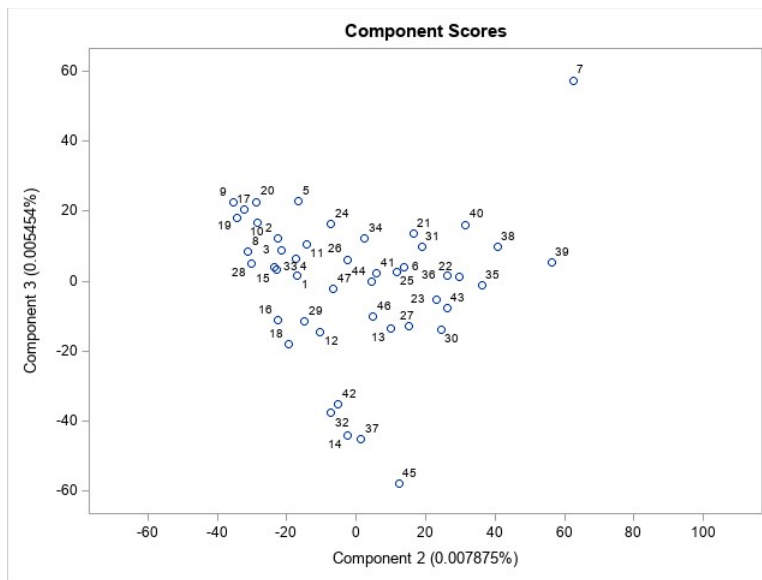


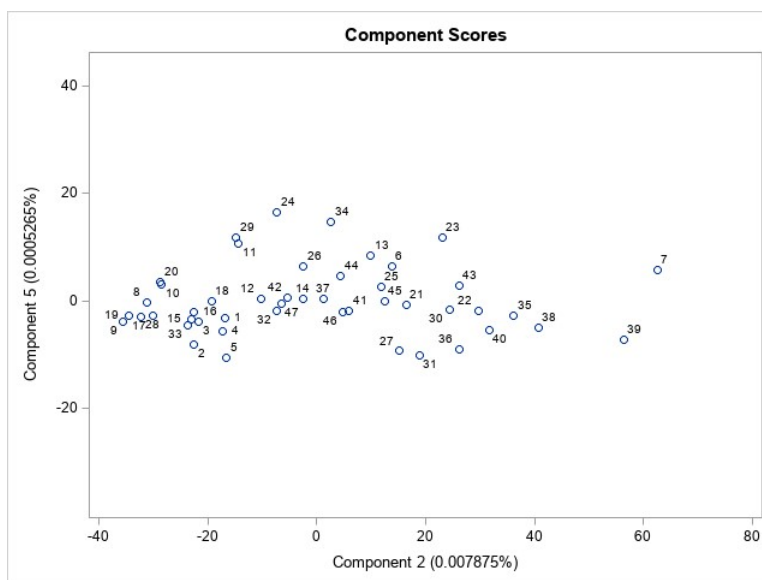
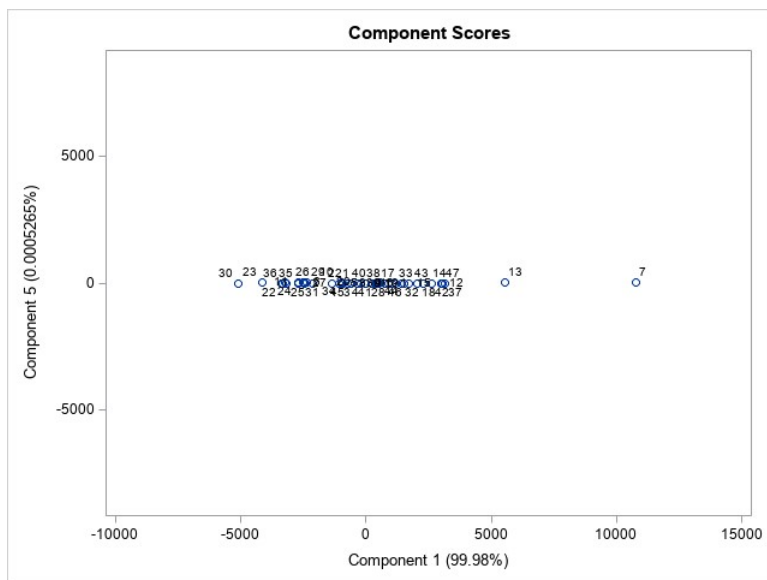
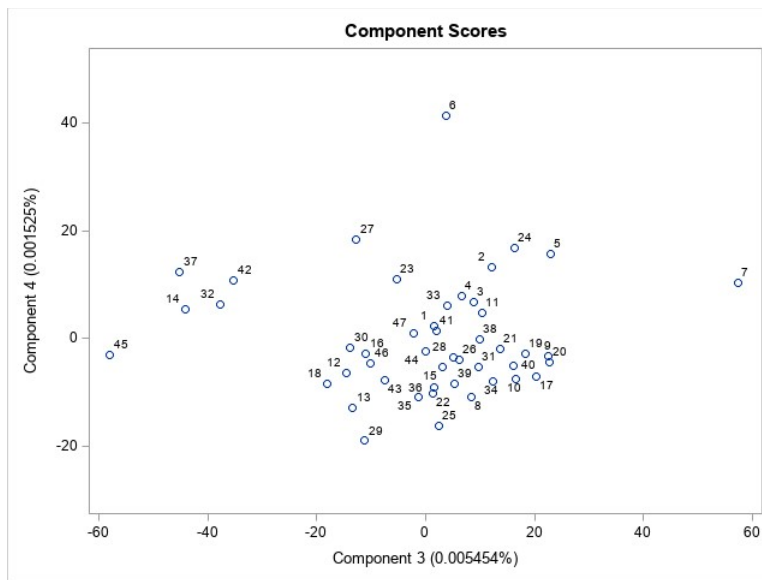


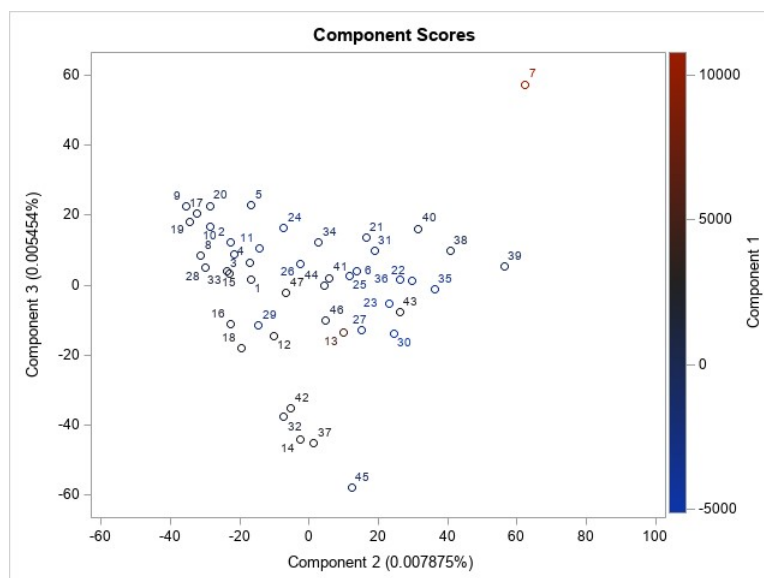
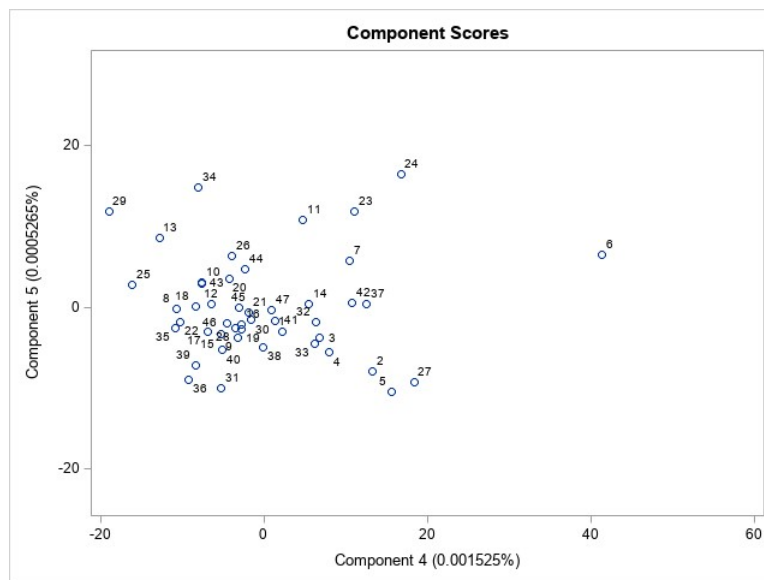
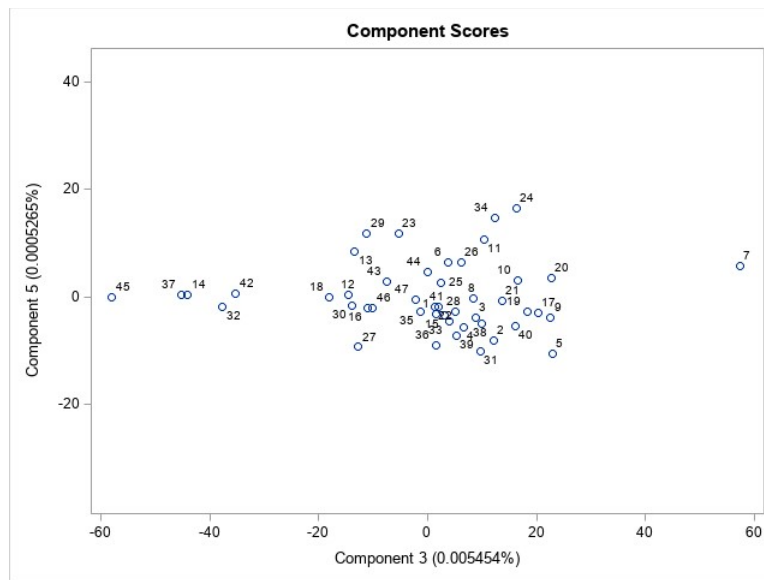
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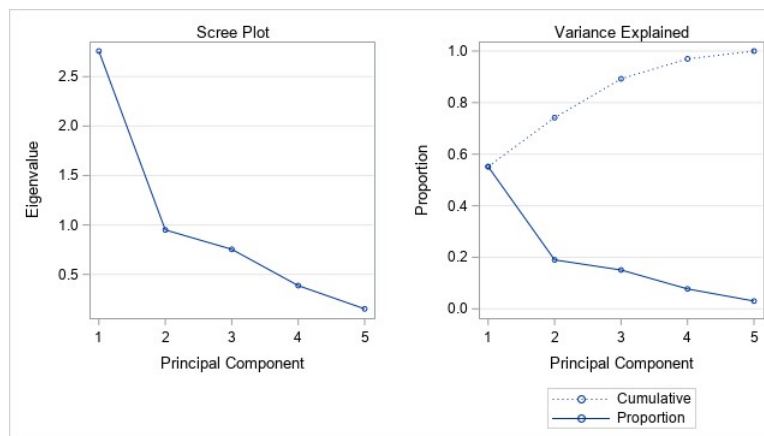
Observations	47
Variables	5

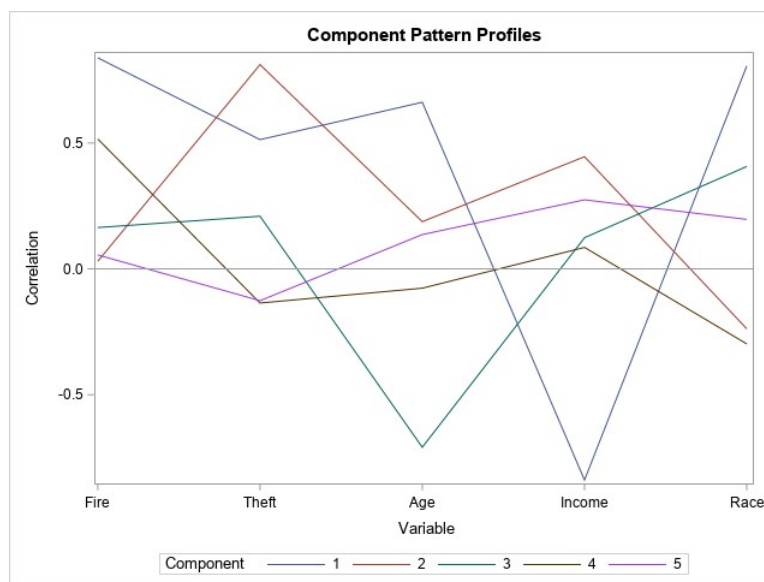
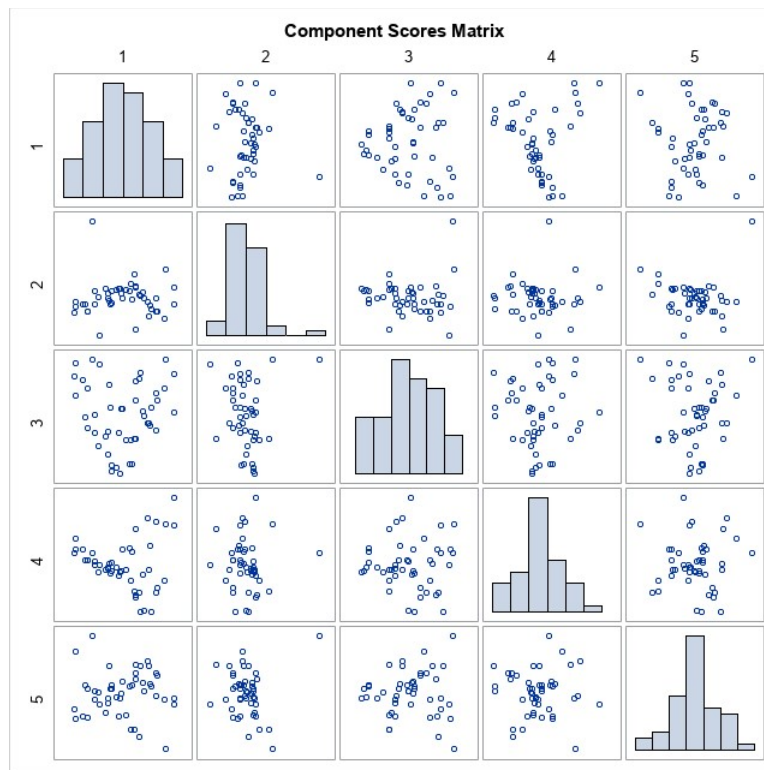
Simple Statistics					
	Fire	Theft	Age	Income	Race
Mean	12.27872340	30.23404255	60.32765957	10695.82979	34.98510638
Std	9.30226565	14.53363829	22.57496403	2754.19801	32.58761420

Correlation Matrix					
	Fire	Theft	Age	Income	Race
Fire	1.0000	0.4122	0.4122	-.6104	0.5928
Theft	0.4122	1.0000	0.3369	-.0894	0.3214
Age	0.4122	0.3369	1.0000	-.5287	0.2505
Income	-.6104	-.0894	-.5287	1.0000	-.7037
Race	0.5928	0.3214	0.2505	-.7037	1.0000

Eigenvalues of the Correlation Matrix				
	Eigenvalue	Difference	Proportion	Cumulative
1	2.75861596	1.80893352	0.5517	0.5517
2	0.94968244	0.19597232	0.1899	0.7417
3	0.75371012	0.36713571	0.1507	0.8924
4	0.38657441	0.23515734	0.0773	0.9697
5	0.15141707		0.0303	1.0000

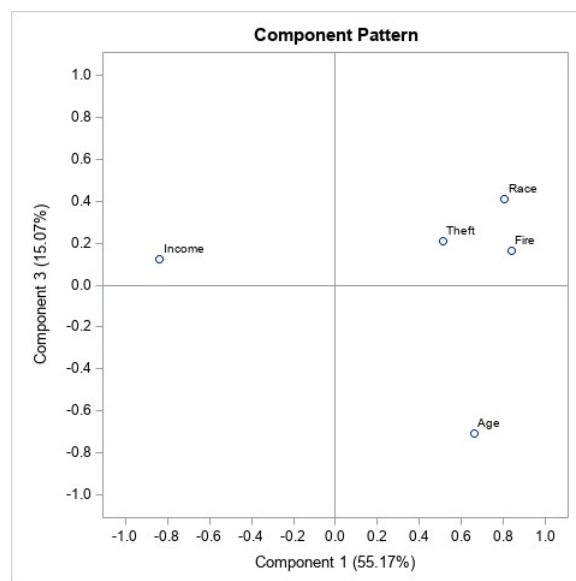
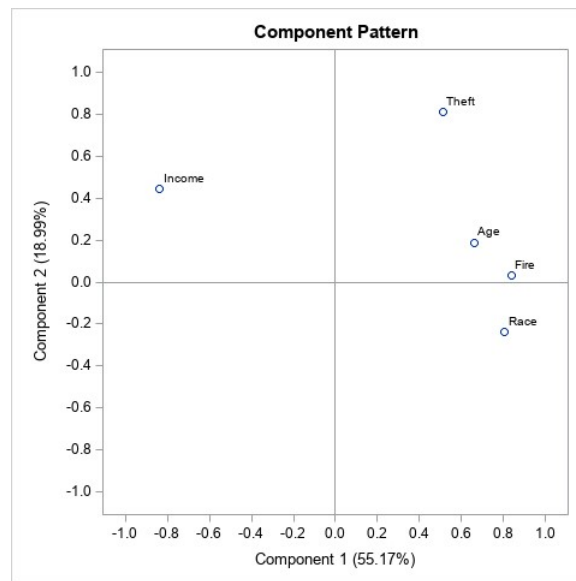
Eigenvectors					
	Prin1	Prin2	Prin3	Prin4	Prin5
Fire	0.504823	0.030903	0.189071	0.829630	0.142006
Theft	0.309078	0.832612	0.240781	-.218340	-.324932
Age	0.398535	0.192335	-.816327	-.123544	0.350034
Income	-.505043	0.457245	0.142614	0.137146	0.704777
Race	0.485517	-.244411	0.468559	-.479552	0.504994

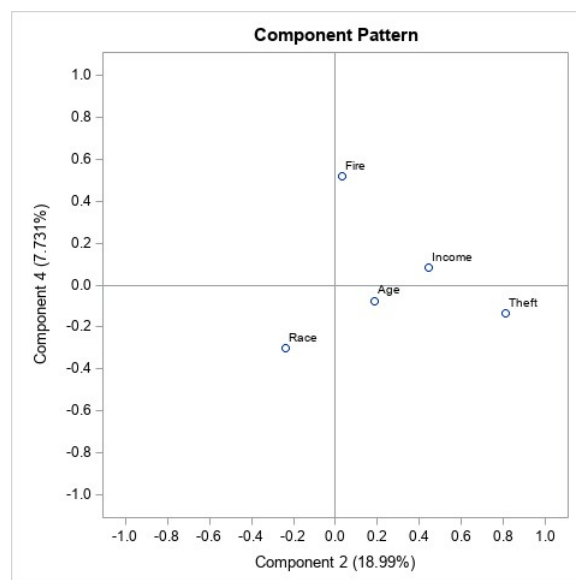
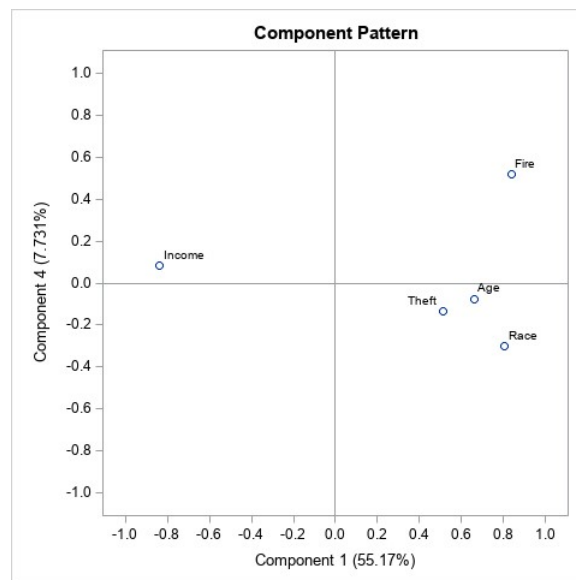
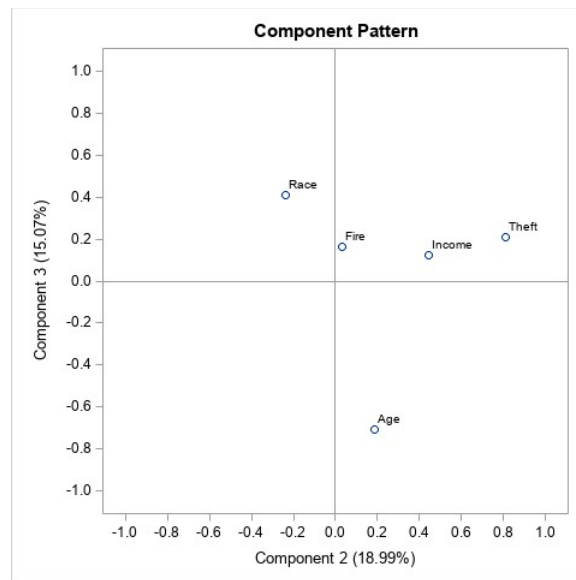




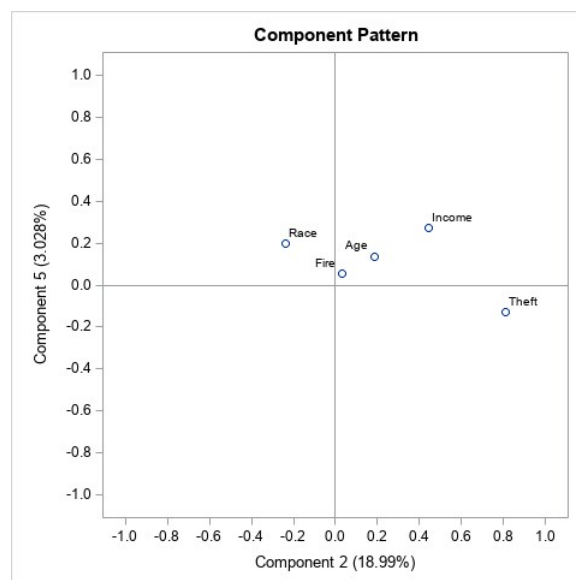
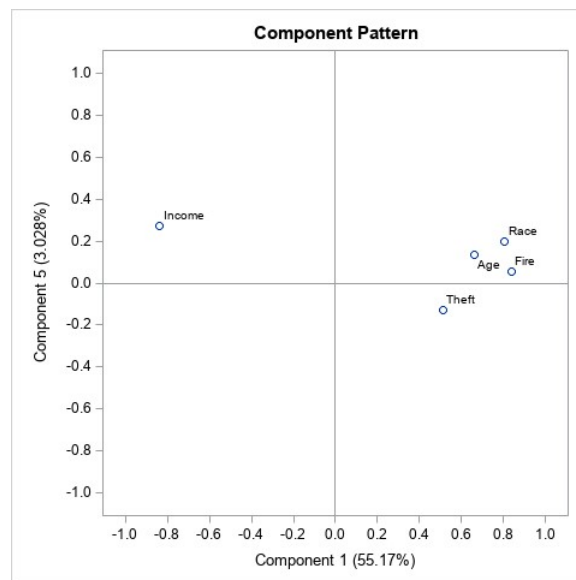
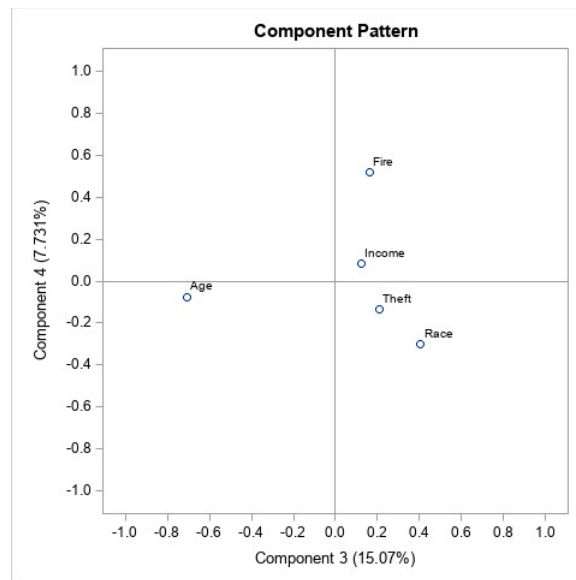
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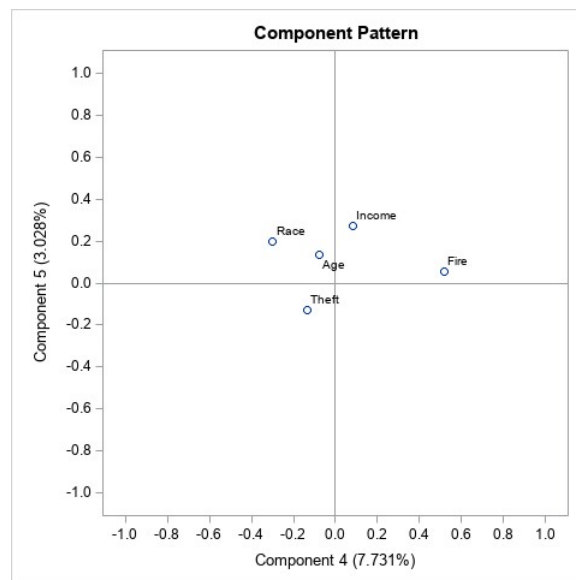
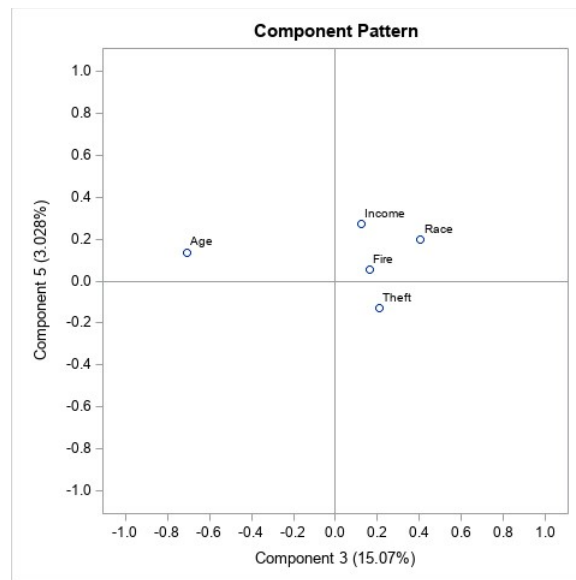
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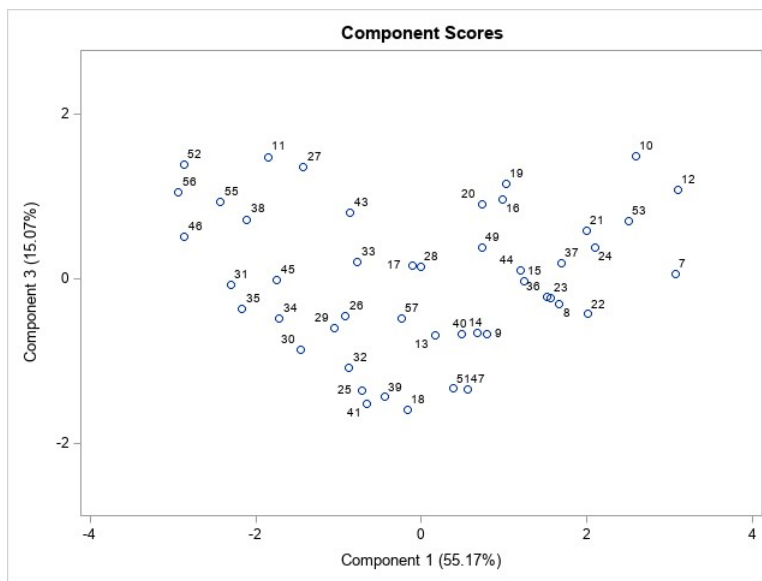
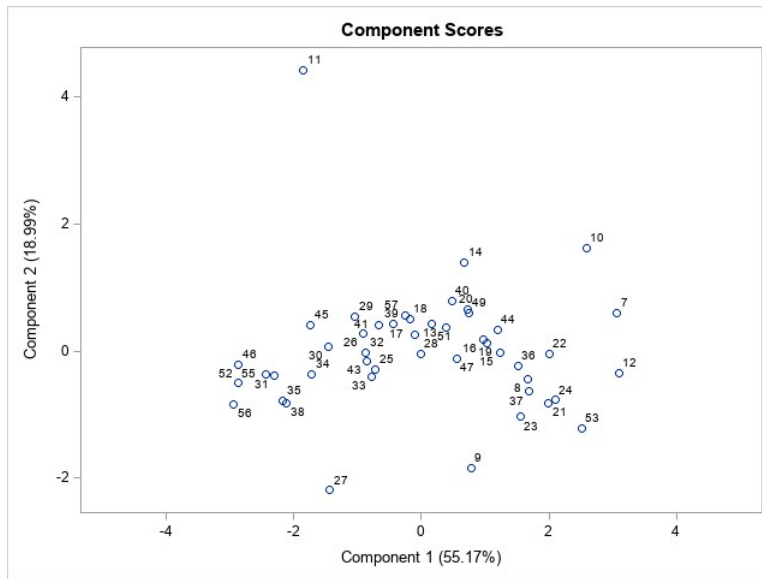


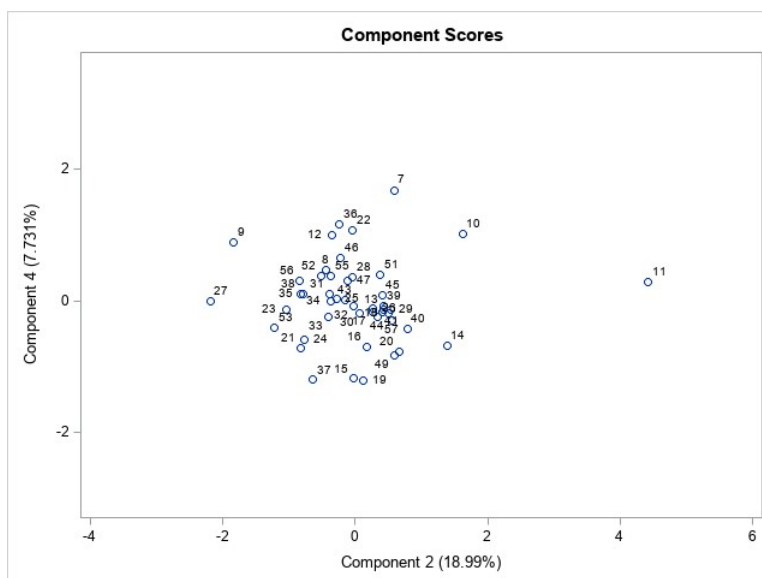
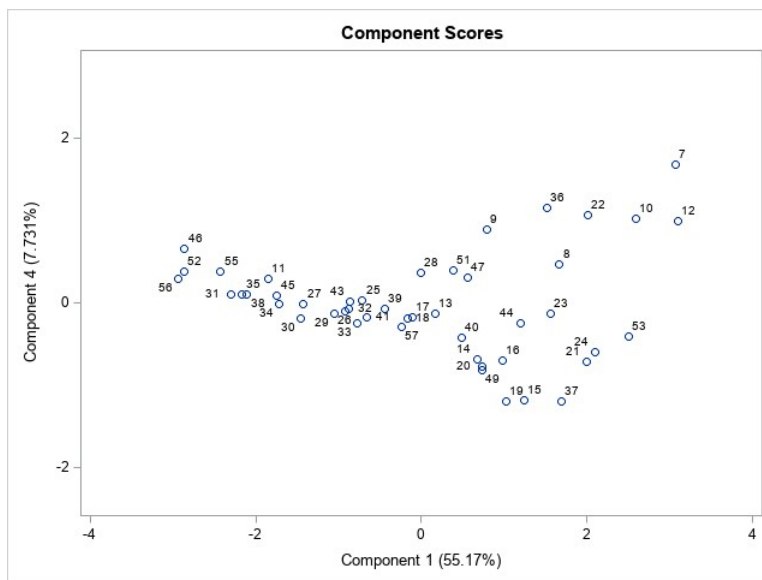
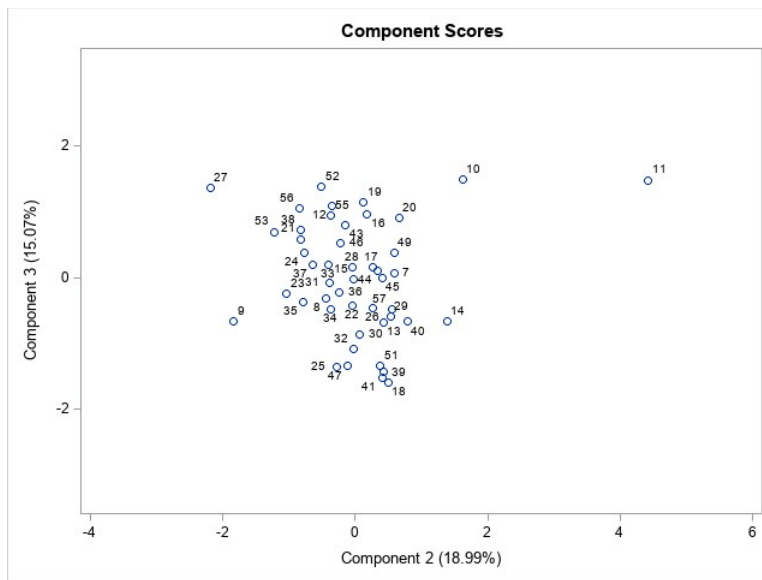


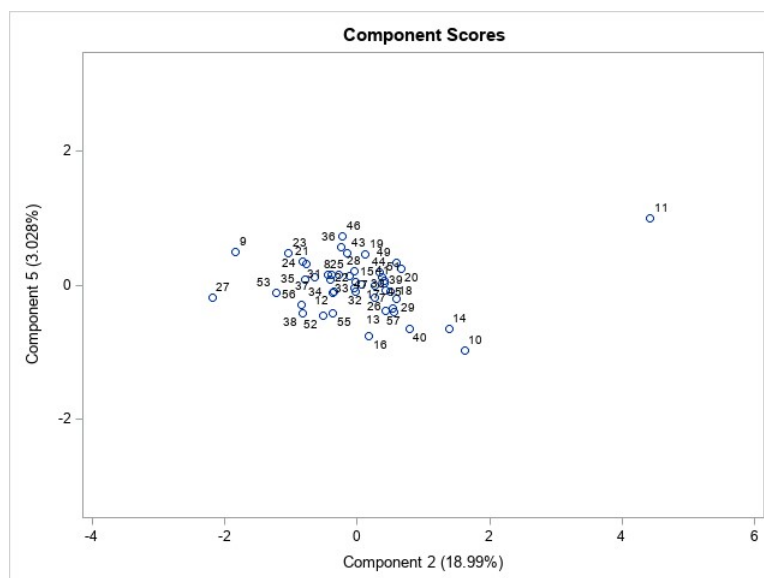
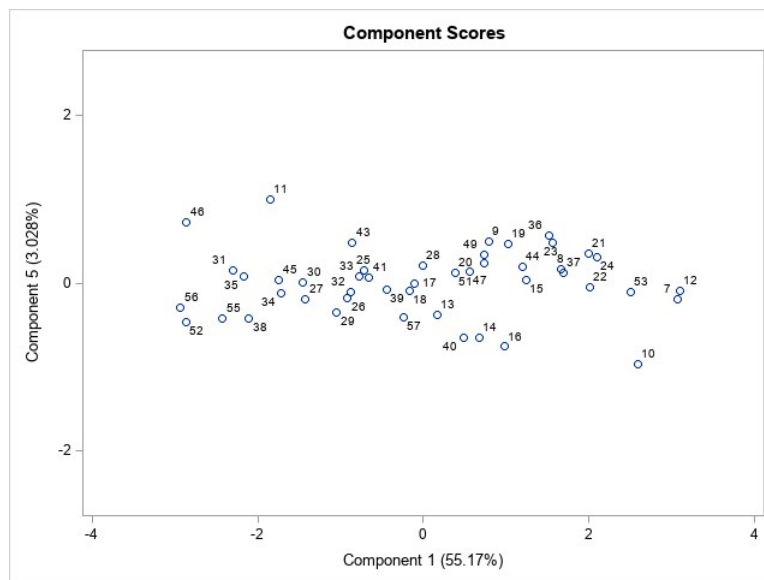
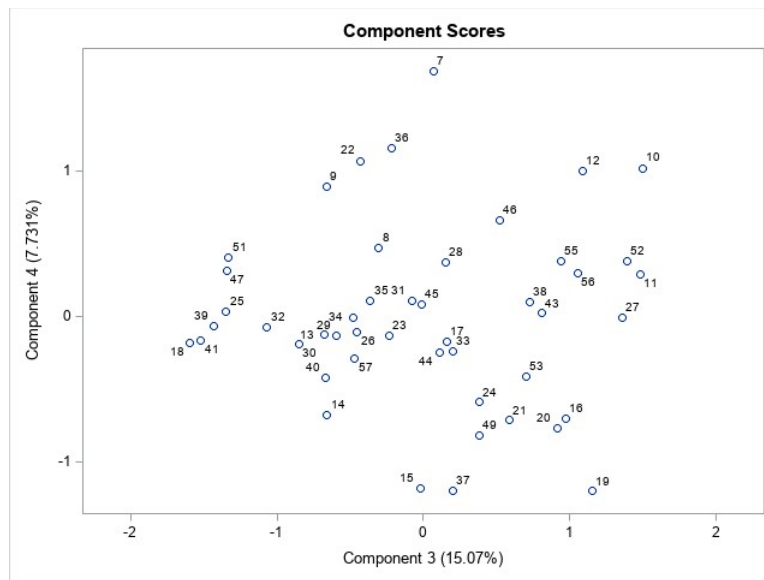


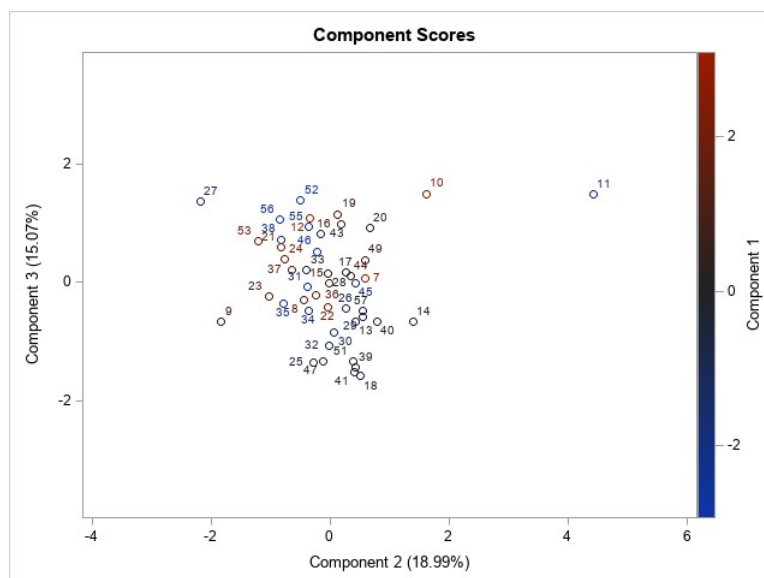
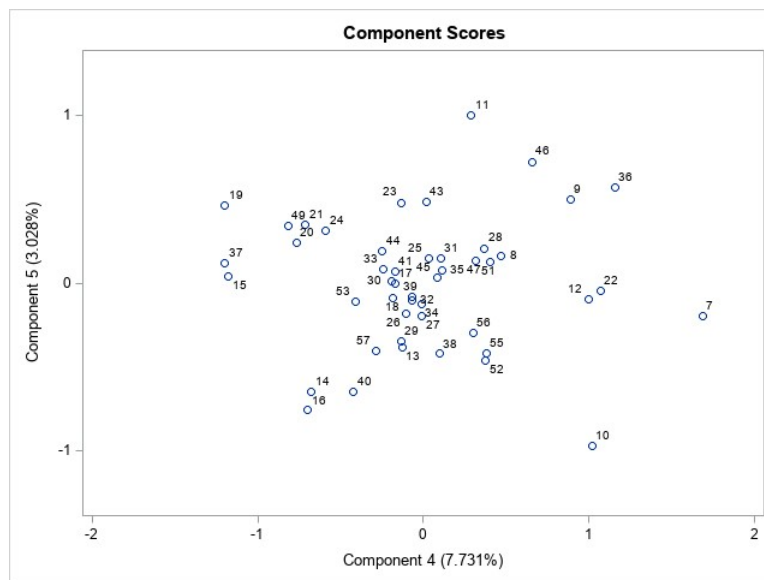
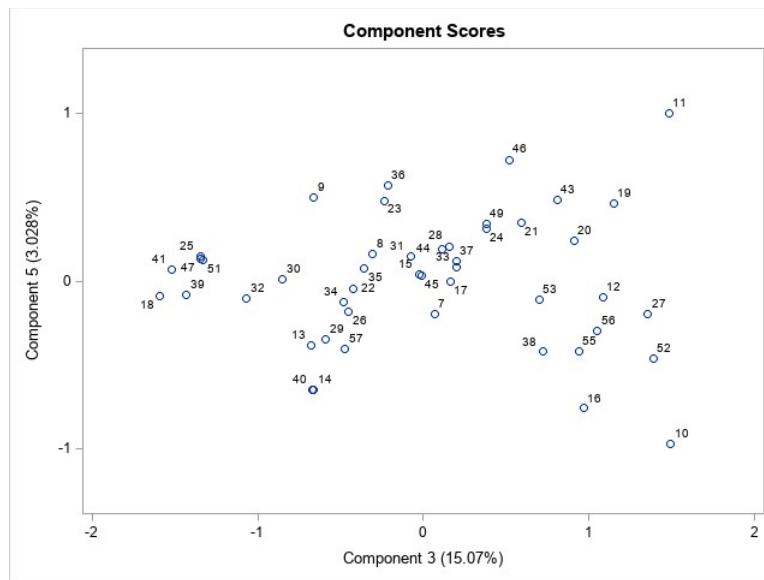
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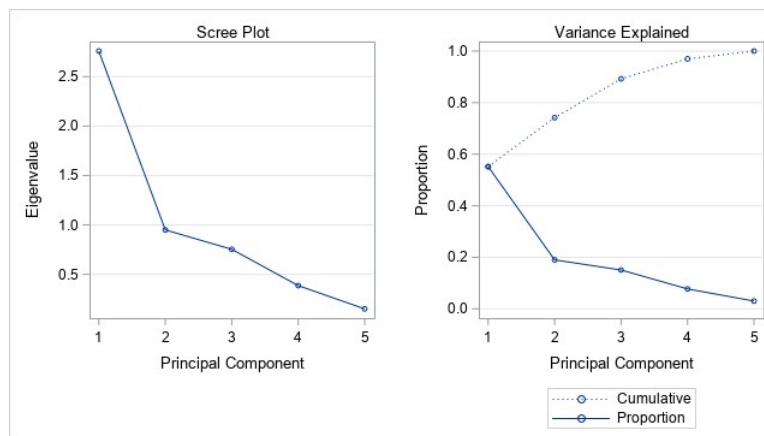
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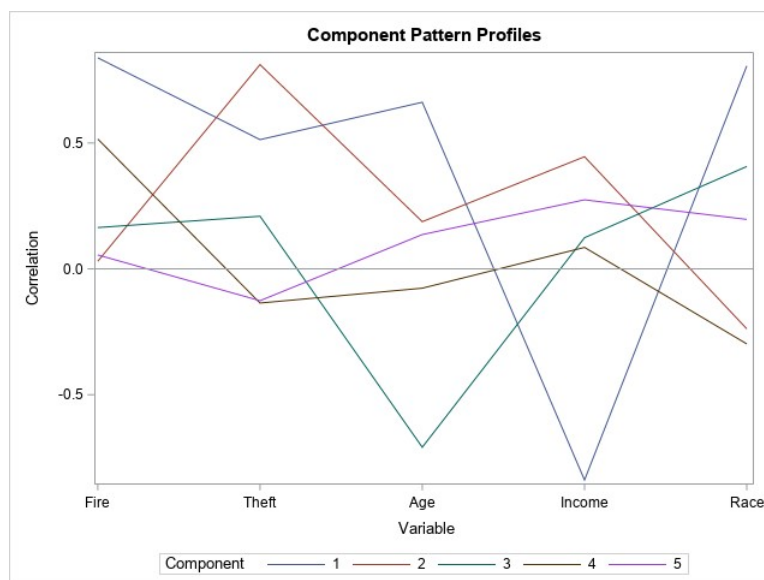
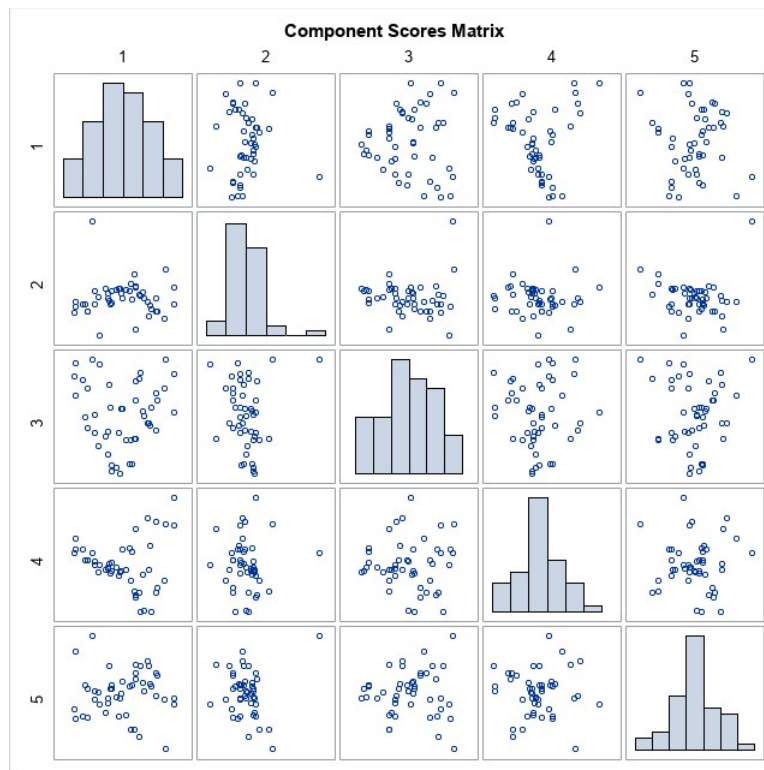
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Std	9.30226565	14.53363829	22.57496403	2754.19801	32.58761420

Correlation Matrix					
	Fire	Theft	Age	Income	Race
Fire	1.0000	0.4122	0.4122	-.6104	0.5928
Theft	0.4122	1.0000	0.3369	-.0894	0.3214
Age	0.4122	0.3369	1.0000	-.5287	0.2505
Income	-.6104	-.0894	-.5287	1.0000	-.7037
Race	0.5928	0.3214	0.2505	-.7037	1.0000

Eigenvalues of the Correlation Matrix				
	Eigenvalue	Difference	Proportion	Cumulative
1	2.75861596	1.80893352	0.5517	0.5517
2	0.94968244	0.19597232	0.1899	0.7417
3	0.75371012	0.36713571	0.1507	0.8924
4	0.38657441	0.23515734	0.0773	0.9697
5	0.15141707		0.0303	1.0000

Eigenvectors					
	Prin1	Prin2	Prin3	Prin4	Prin5
Fire	0.504823	0.030903	0.189071	0.829630	0.142006
Theft	0.309078	0.832612	0.240781	-.218340	-.324932
Age	0.398535	0.192335	-.816327	-.123544	0.350034
Income	-.505043	0.457245	0.142614	0.137146	0.704777
Race	0.485517	-.244411	0.468559	-.479552	0.504994

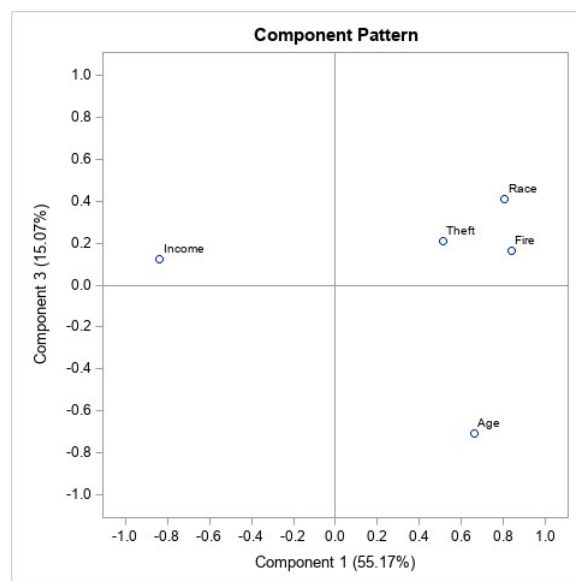
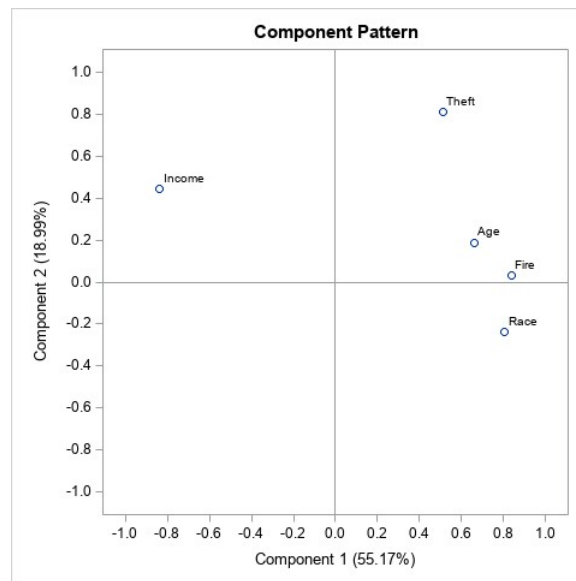


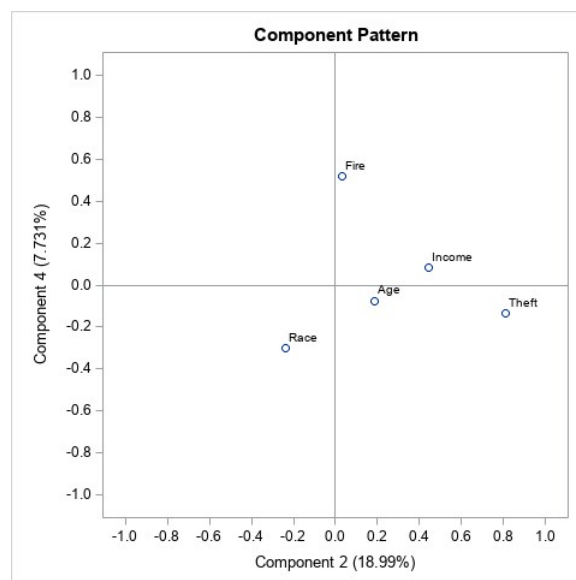
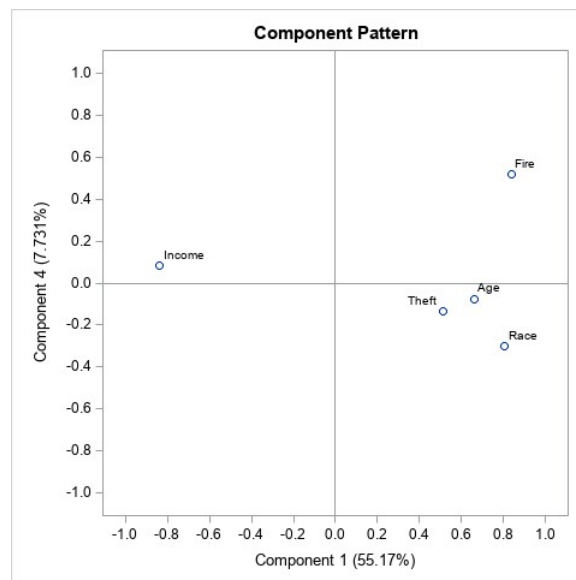
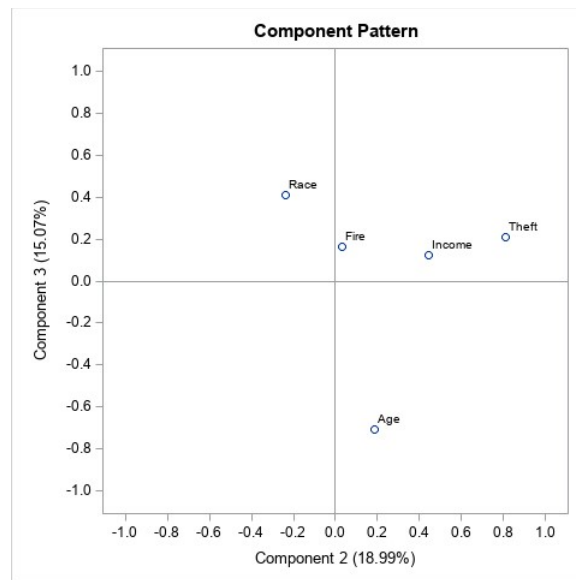


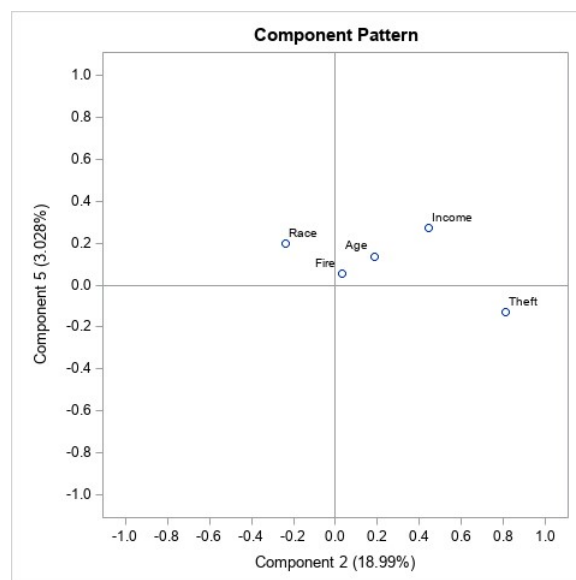
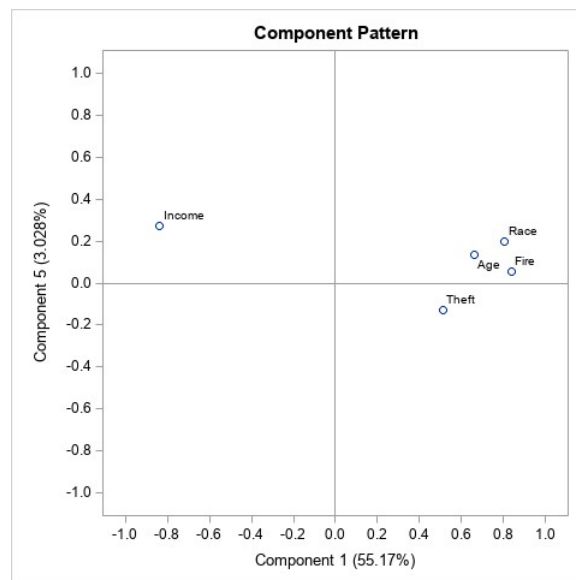
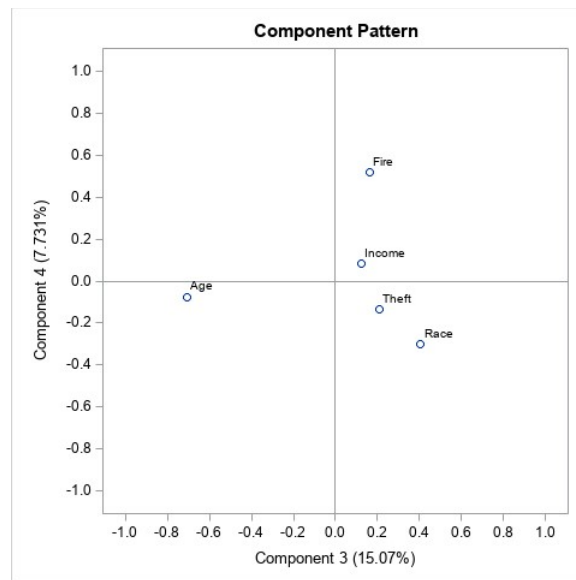


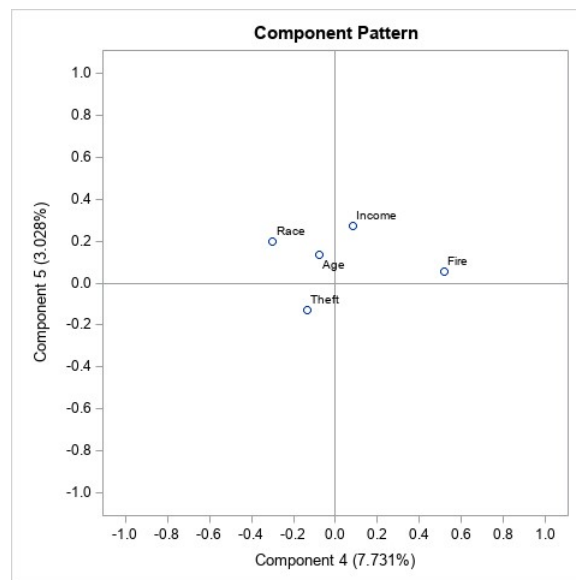
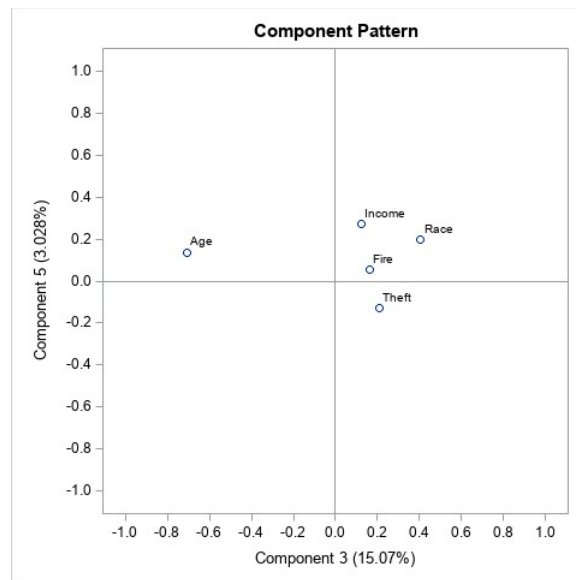
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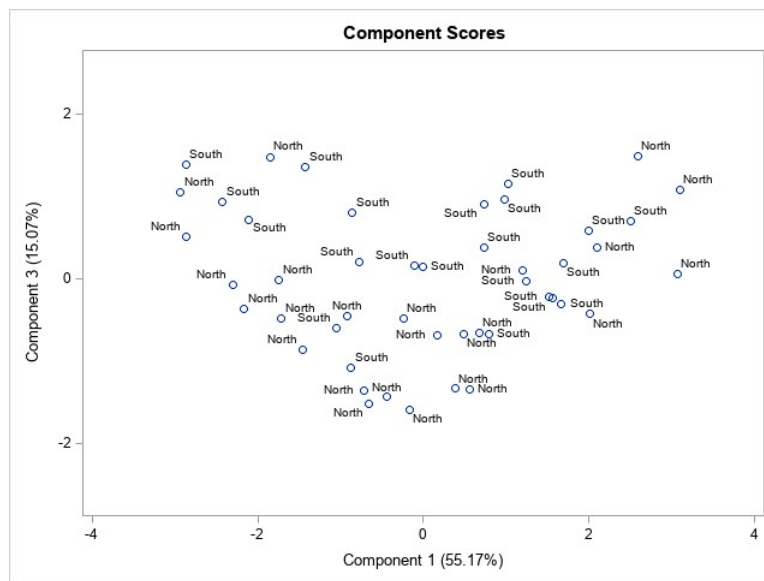
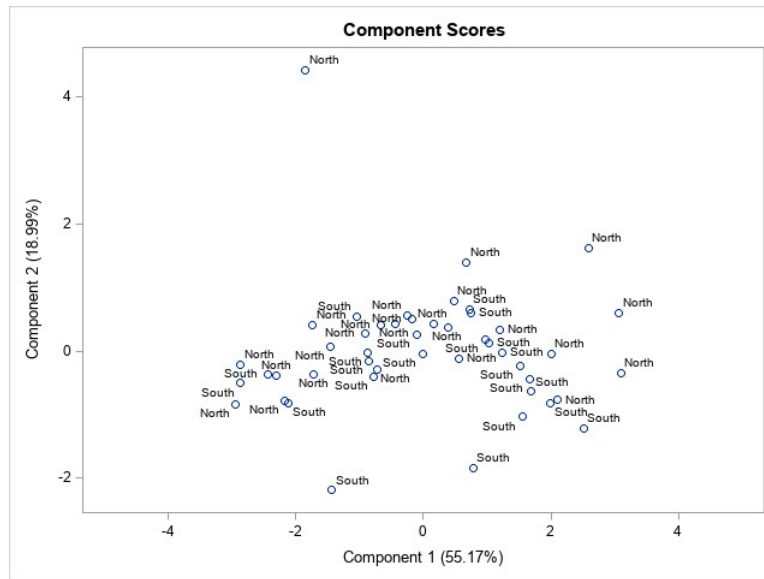


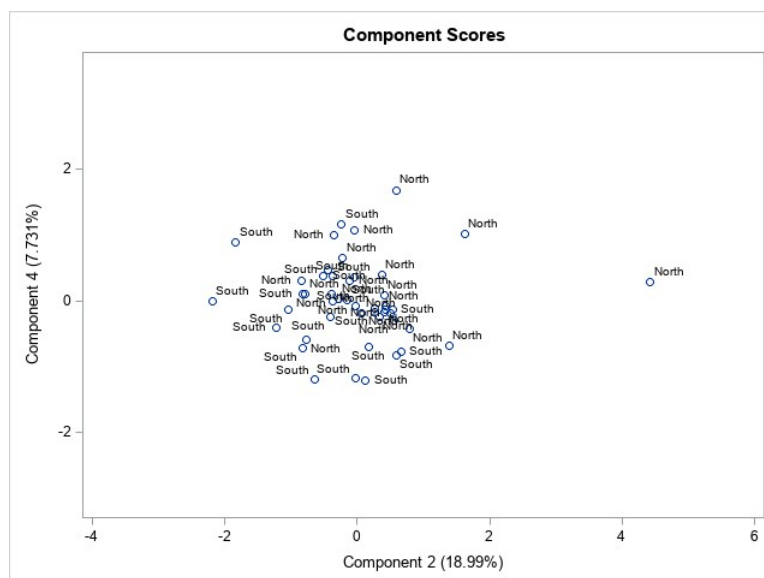
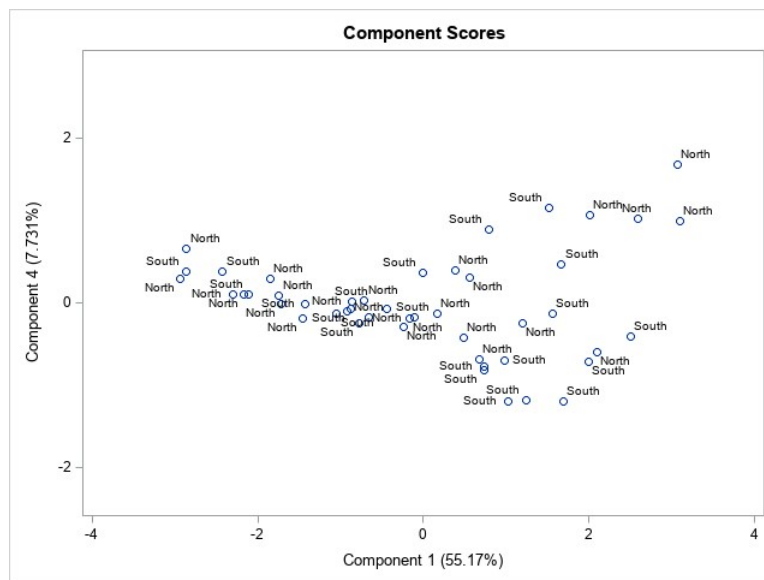
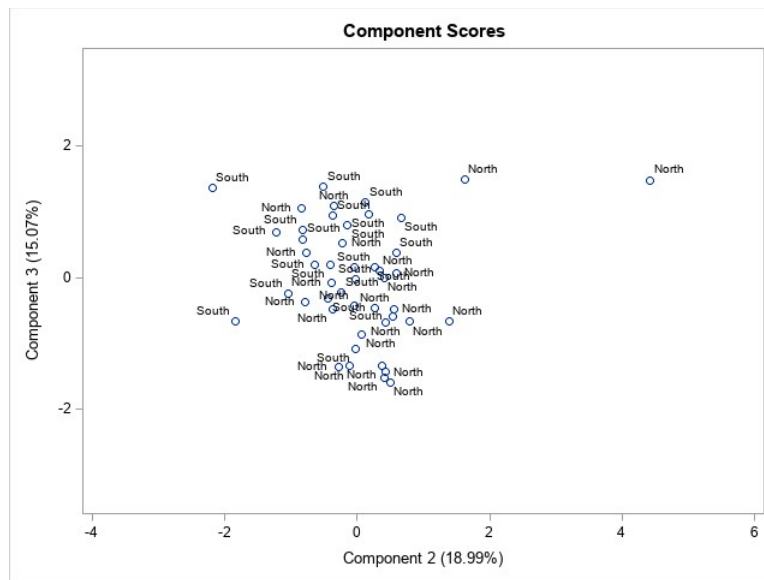


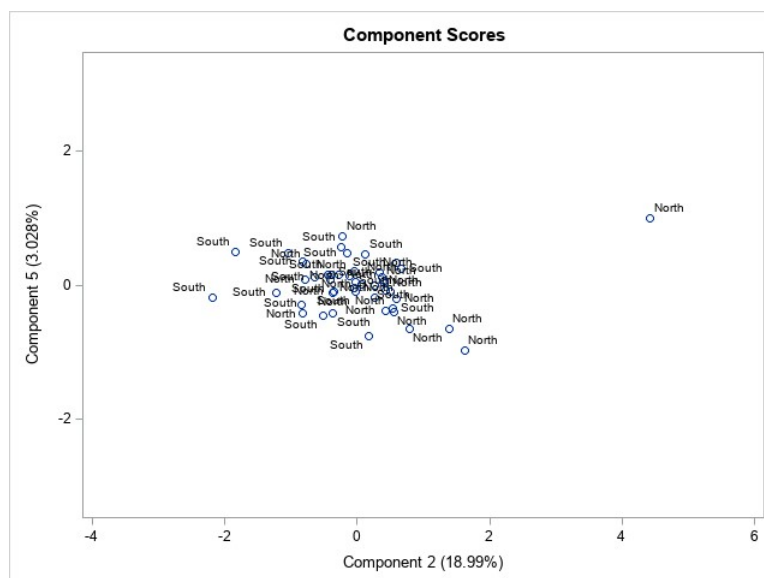
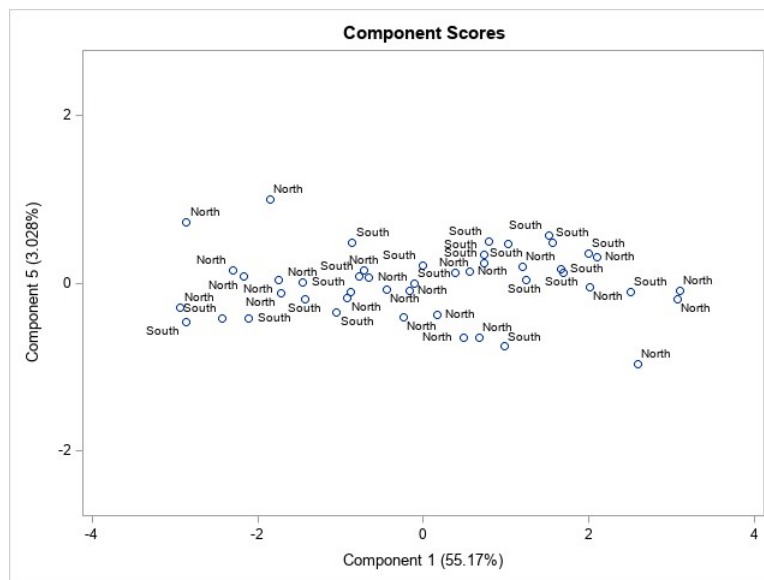
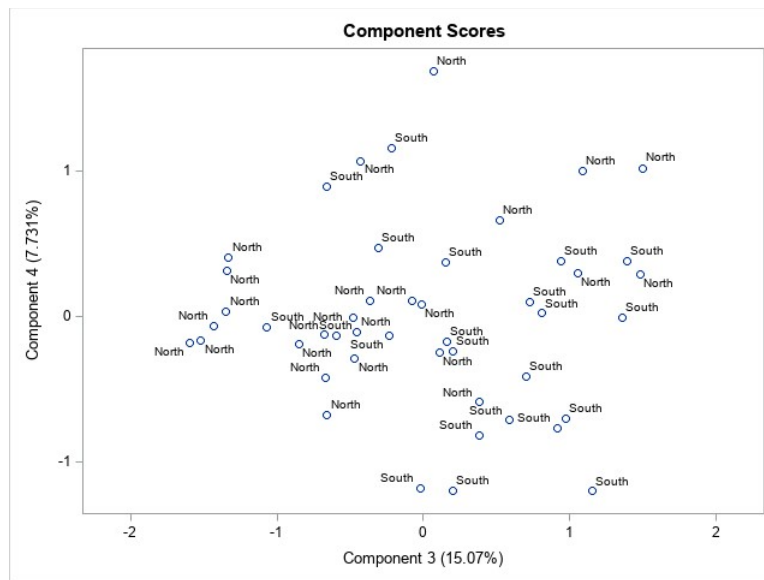


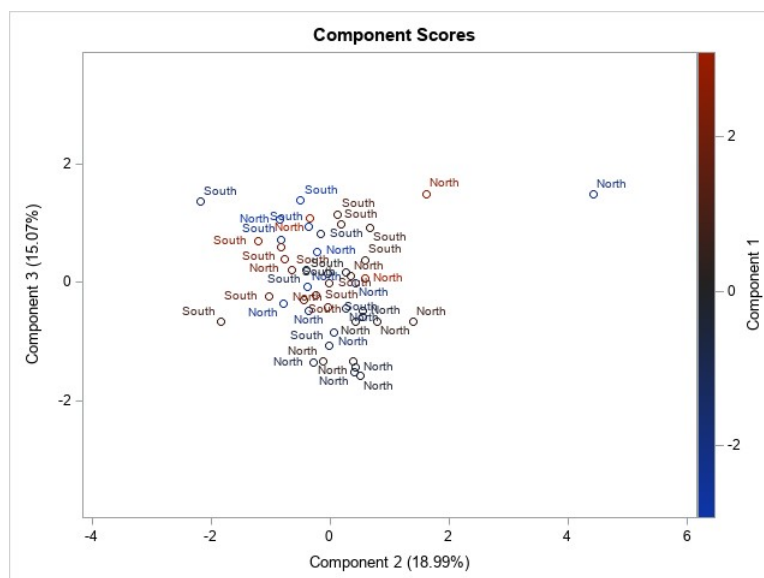
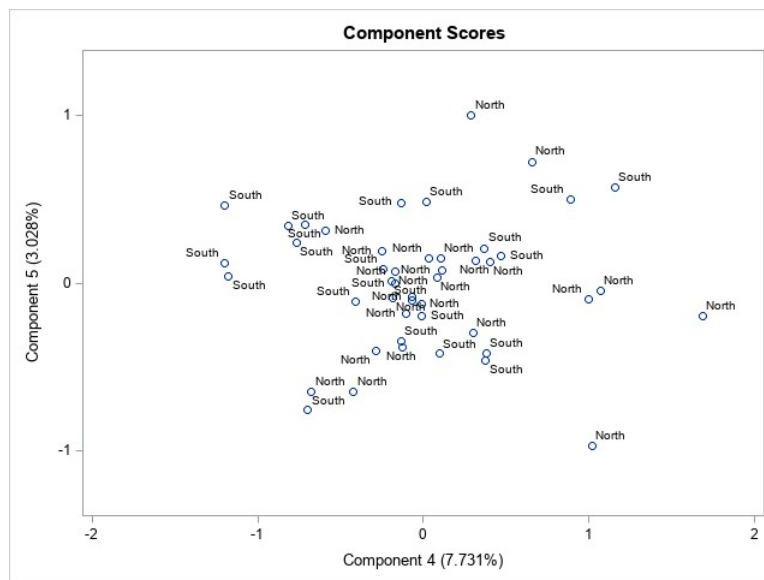
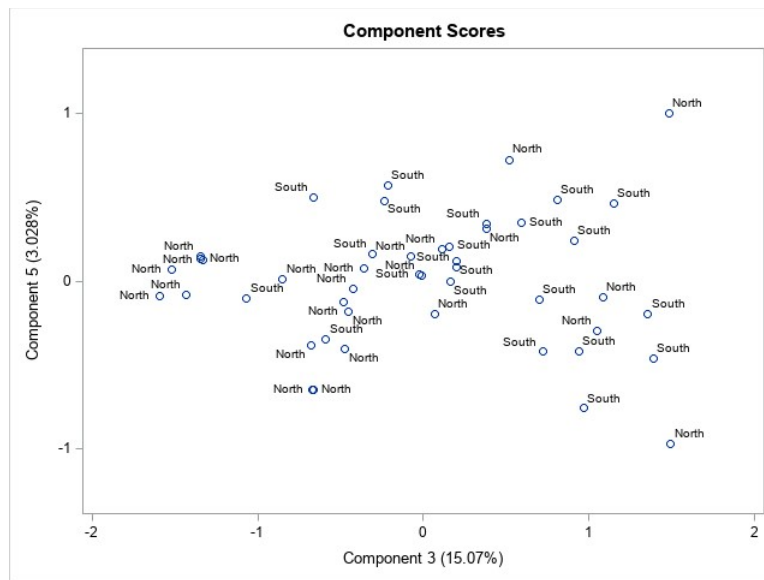
## The SAS System

## The PRINCOMP Procedure

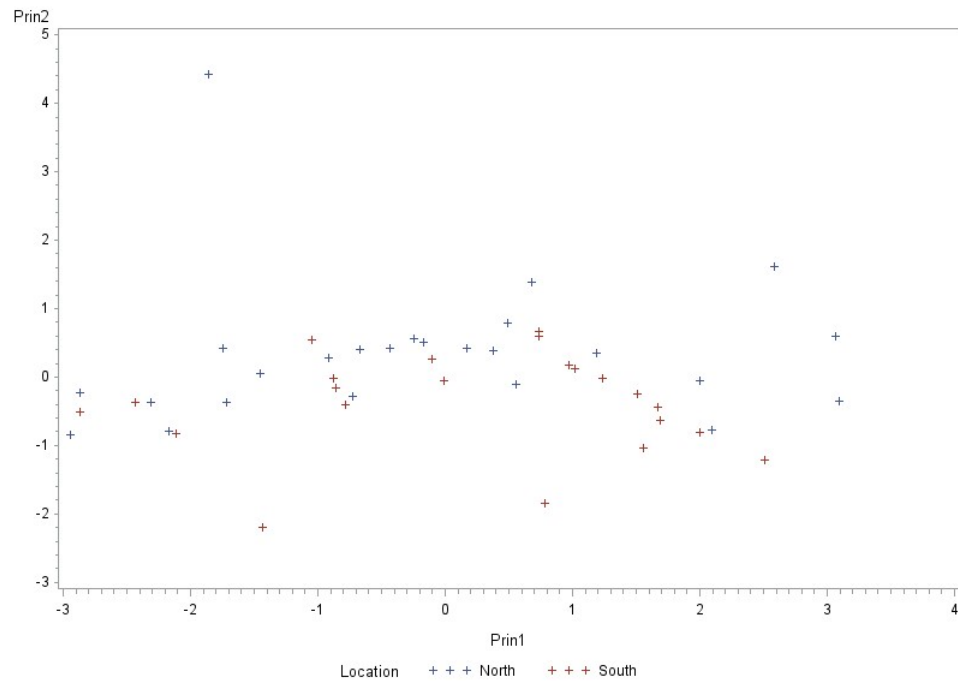












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The SAS System

## The CORR Procedure

6 Variables: Vol Prin1 Prin2 Prin3 Prin4 Prin5

Simple Statistics						
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
Vol	47	6.74255	4.29609	316.90000	0.50000	17.90000
Prin1	47	0	1.66091	0	-2.94015	3.09659
Prin2	47	0	0.97452	0	-2.18994	4.42530
Prin3	47	0	0.86816	0	-1.59201	1.49441
Prin4	47	0	0.62175	0	-1.19921	1.68456
Prin5	47	0	0.38912	0	-0.96711	0.99813

Pearson Correlation Coefficients, N = 47 Prob >  r  under H0: Rho=0						
	Vol	Prin1	Prin2	Prin3	Prin4	Prin5
Vol	1.00000	-0.87268 <.0001	0.26302 0.0741	0.10019 0.5028	0.12147 0.4160	0.07110 0.6349
Prin1	-0.87268 <.0001	1.00000	0.00000 1.0000	0.00000 1.0000	0.00000 1.0000	0.00000 1.0000
Prin2	0.26302 0.0741	0.00000 1.0000	1.00000	0.00000 1.0000	0.00000 1.0000	0.00000 1.0000
Prin3	0.10019 0.5028	0.00000 1.0000	0.00000 1.0000	1.00000	0.00000 1.0000	0.00000 1.0000
Prin4	0.12147 0.4160	0.00000 1.0000	0.00000 1.0000	0.00000 1.0000	1.00000	0.00000 1.0000
Prin5	0.07110 0.6349	0.00000 1.0000	0.00000 1.0000	0.00000 1.0000	0.00000 1.0000	1.00000

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**The SAS System****The PLS Procedure**

<b>Data Set</b>	WORK.Q
<b>Factor Extraction Method</b>	Principal Components Regression
<b>Number of Response Variables</b>	1
<b>Number of Predictor Parameters</b>	5
<b>Missing Value Handling</b>	Exclude
<b>Number of Factors</b>	5

<b>Number of Observations Read</b>	47
<b>Number of Observations Used</b>	47

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**The SAS System****The PLS Procedure**

Percent Variation Accounted for by Principal Components				
Number of Extracted Factors	Model Effects		Dependent Variables	
	Current	Total	Current	Total
1	55.1723	55.1723	76.1579	76.1579
2	18.9936	74.1660	6.9181	83.0760
3	15.0742	89.2402	1.0037	84.0797
4	7.7315	96.9717	1.4755	85.5552
5	3.0283	100.0000	0.5055	86.0606

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**The SAS System**

The REG Procedure  
 Model: MODEL1  
 Dependent Variable: Vol

Number of Observations Read	47
Number of Observations Used	47

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	730.65051	146.13010	50.63	<.0001
Error	41	118.34438	2.88645		
Corrected Total	46	848.99489			

Root MSE	1.69896	R-Square	0.8606
Dependent Mean	6.74255	Adj R-Sq	0.8436
Coeff Var	25.19750		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	1	6.74255	0.24782	27.21	<.0001
Prin1	1	-2.25728	0.15082	-14.97	<.0001
Prin2	1	1.15952	0.25705	4.51	<.0001
Prin3	1	0.49577	0.28854	1.72	0.0933
Prin4	1	0.83930	0.40289	2.08	0.0435
Prin5	1	0.78495	0.64375	1.22	0.2297

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**The SAS System****The MEANS Procedure**

Variable	N	Mean	Median	Variance	Std Dev	Minimum	Maximum
Vol	47	6.74	5.90	18.46	4.30	0.50	17.90
Invol	47	0.61	0.40	0.40	0.63	0.00	2.20
Fire	47	12.28	10.40	86.53	9.30	2.00	39.70
Theft	47	30.23	29.00	211.23	14.53	3.00	75.00
Age	47	60.33	65.00	509.63	22.57	2.00	90.10
Income	47	10695.83	10694.00	7585606.67	2754.20	5583.00	21480.00
Race	47	34.99	24.50	1061.95	32.59	1.00	99.70

# The SAS System

## The CORR Procedure

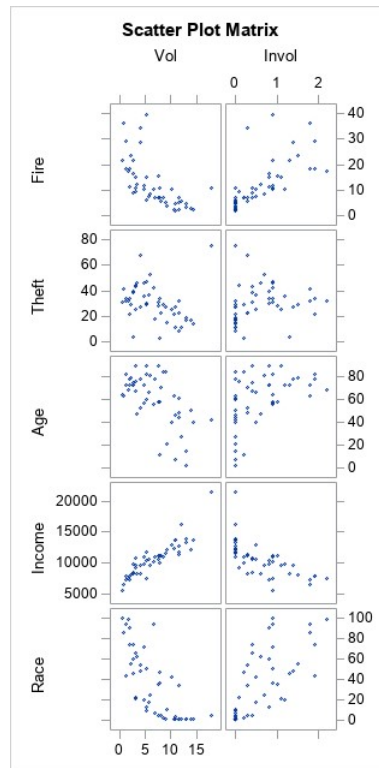
<b>5 With Variables:</b>	Fire Theft Age Income Race
<b>2 Variables:</b>	Vol Invol

Simple Statistics						
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
Fire	47	12.27872	9.30227	577.10000	2.00000	39.70000
Theft	47	30.23404	14.53364	1421	3.00000	75.00000
Age	47	60.32766	22.57496	2835	2.00000	90.10000
Income	47	10696	2754	502704	5583	21480
Race	47	34.98511	32.58761	1644	1.00000	99.70000
Vol	47	6.74255	4.29609	316.90000	0.50000	17.90000
Invol	47	0.61489	0.63382	28.90000	0	2.20000

### Pearson Correlation Coefficients, N = 47

Prob > |r| under H0: Rho=0

	Vol	Invol
Fire	-0.64076 <.0001	0.70304 <.0001
Theft	-0.23911 0.1055	0.16221 0.2760
Age	-0.59901 <.0001	0.47573 0.0007
Income	0.89150 <.0001	-0.66485 <.0001
Race	-0.74787 <.0001	0.71375 <.0001



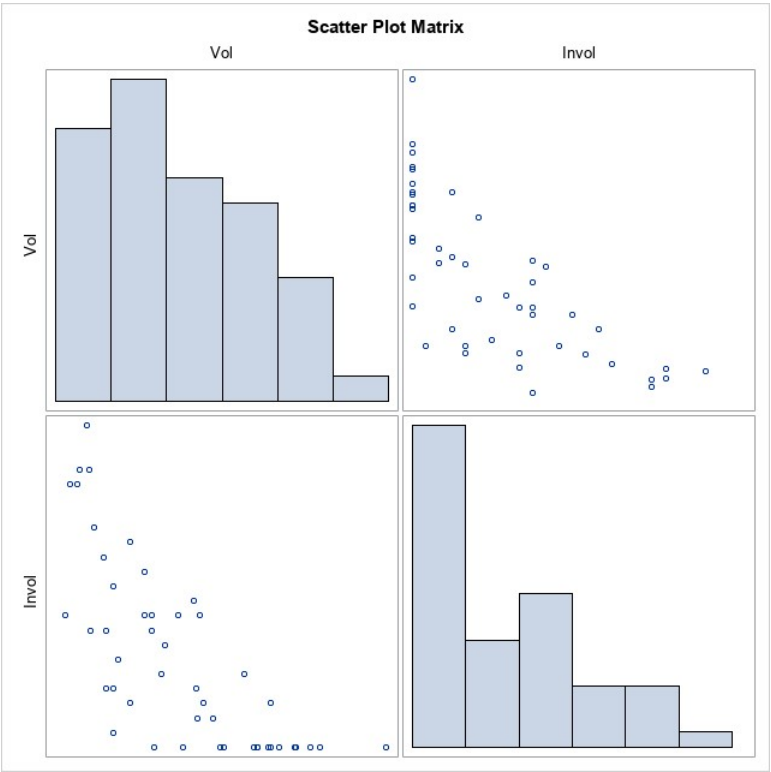
The SAS System

The CORR Procedure

2 Variables: Vol Invol

Simple Statistics						
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
Vol	47	6.74255	4.29609	316.90000	0.50000	17.90000
Invol	47	0.61489	0.63382	28.90000	0	2.20000

Pearson Correlation Coefficients, N = 47		
Prob >  r  under H0: Rho=0		
	Vol	Invol
Vol	1.00000	-0.73825 <.0001
Invol	-0.73825 <.0001	1.00000





The SAS System

The CANCORR Procedure

Canonical Correlation Analysis

	Canonical Correlation	Adjusted Canonical Correlation	Approximate Standard Error	Squared Canonical Correlation	Eigenvalues of Inv(E)'H = CanRsq/(1-CanRsq)				Test of H0: The canonical correlations in the current row and all that follow are zero			
					Eigenvalue	Difference	Proportion	Cumulative	Likelihood Ratio	Approximate F Value	Num DF	Den DF
1	0.937282	0.931255	0.017915	0.878497	7.2303	6.7078	0.9326	0.9326	0.07980847	20.32	10	80
2	0.585794	0.555311	0.096847	0.343155	0.5224		0.0674	1.0000	0.65684513	5.35	4	41

Multivariate Statistics and F Approximations					
S=2 M=1 N=19					
Statistic	Value	F Value	Num DF	Den DF	Pr > F
Wilks' Lambda	0.07980847	20.32	10	80	<.0001
Pillai's Trace	1.22165215	12.87	10	82	<.0001
Hotelling-Lawley Trace	7.75269747	30.53	10	57.316	<.0001
Roy's Greatest Root	7.23026859	59.29	5	41	<.0001
NOTE: F Statistic for Roy's Greatest Root is an upper bound.					
NOTE: F Statistic for Wilks' Lambda is exact.					

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**The SAS System****The CANCORR Procedure****Canonical Correlation Analysis****Raw Canonical Coefficients for the  
VAR Variables**

	V1	V2
<b>Vol</b>	-0.182275119	0.2930162133
<b>Invol</b>	0.4275924014	2.2995876952

**Raw Canonical Coefficients for the  
WITH Variables**

	W1	W2
<b>Fire</b>	0.0182247873	0.109580064
<b>Theft</b>	-0.005465603	-0.054685746
<b>Age</b>	0.0121813339	0.0171782697
<b>Income</b>	-0.000152195	0.0005917469
<b>Race</b>	0.0120401992	0.026689192

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**The SAS System****The CANCORR Procedure****Canonical Correlation Analysis****Standardized Canonical Coefficients  
for the VAR Variables**

	<b>V1</b>	<b>V2</b>
<b>Vol</b>	-0.7831	1.2588
<b>Invol</b>	0.2710	1.4575

**Standardized Canonical Coefficients  
for the WITH Variables**

	<b>W1</b>	<b>W2</b>
<b>Fire</b>	0.1695	1.0193
<b>Theft</b>	-0.0794	-0.7948
<b>Age</b>	0.2750	0.3878
<b>Income</b>	-0.4192	1.6298
<b>Race</b>	0.3924	0.8697

---

**The SAS System**
**The CANCORR Procedure****Canonical Structure****Correlations Between the VAR Variables and Their Canonical Variables**

	V1	V2
Vol	-0.9831	0.1828
Invol	0.8491	0.5282

**Correlations Between the WITH Variables and Their Canonical Variables**

	W1	W2
Fire	0.7386	0.3723
Theft	0.2467	-0.1102
Age	0.6380	-0.1035
Income	-0.9371	0.2615
Race	0.8312	0.1688

**Correlations Between the VAR Variables and the Canonical Variables of the WITH Variables**

	W1	W2
Vol	-0.9215	0.1071
Invol	0.7959	0.3094

**Correlations Between the WITH Variables and the Canonical Variables of the VAR Variables**

	V1	V2
Fire	0.6923	0.2181
Theft	0.2312	-0.0646
Age	0.5980	-0.0607
Income	-0.8783	0.1532
Race	0.7791	0.0989

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The SAS System

## The MEANS Procedure

Location	N Obs	Variable	N	Mean	Median	Variance	Std Dev	Minimum	Maximum
North	25	Fire	25	12.28	7.70	123.06	11.09	2.00	39.70
		Theft	25	32.28	30.00	271.71	16.48	9.00	75.00
		Age	25	65.10	72.70	456.69	21.37	7.70	90.10
		Income	25	11185.48	10694.00	9903917.09	3147.05	6565.00	21480.00
		Race	25	21.95	10.00	742.30	27.25	1.00	94.40
South	22	Fire	22	12.28	10.75	48.90	6.99	3.40	28.60
		Theft	22	27.91	28.50	141.52	11.90	3.00	46.00
		Age	22	54.90	59.90	536.38	23.16	2.00	79.00
		Income	22	10139.41	10620.00	4687555.97	2165.08	5583.00	13842.00
		Race	22	49.80	48.10	1045.84	32.34	1.00	99.70

The SAS System

The GLM Procedure

Class Level Information		
Class	Levels	Values
Location	2	North South

Number of Observations Read	47
Number of Observations Used	47

## The SAS System

## The GLM Procedure

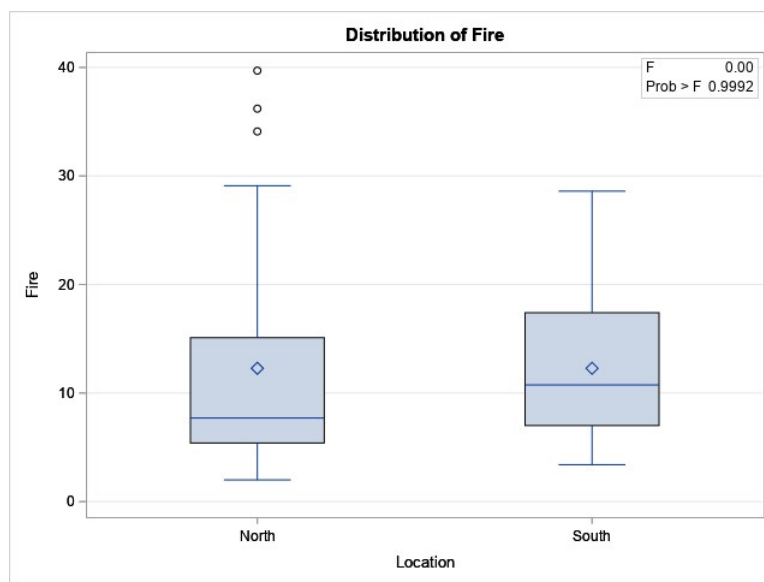
Dependent Variable: Fire

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.000087	0.000087	0.00	0.9992
Error	45	3980.478636	88.455081		
Corrected Total	46	3980.478723			

R-Square	Coeff Var	Root MSE	Fire Mean
0.000000	76.59637	9.405056	12.27872

Source	DF	Type I SS	Mean Square	F Value	Pr > F
Location	1	0.00008704	0.00008704	0.00	0.9992

Source	DF	Type III SS	Mean Square	F Value	Pr > F
Location	1	0.00008704	0.00008704	0.00	0.9992



## The SAS System

## The GLM Procedure

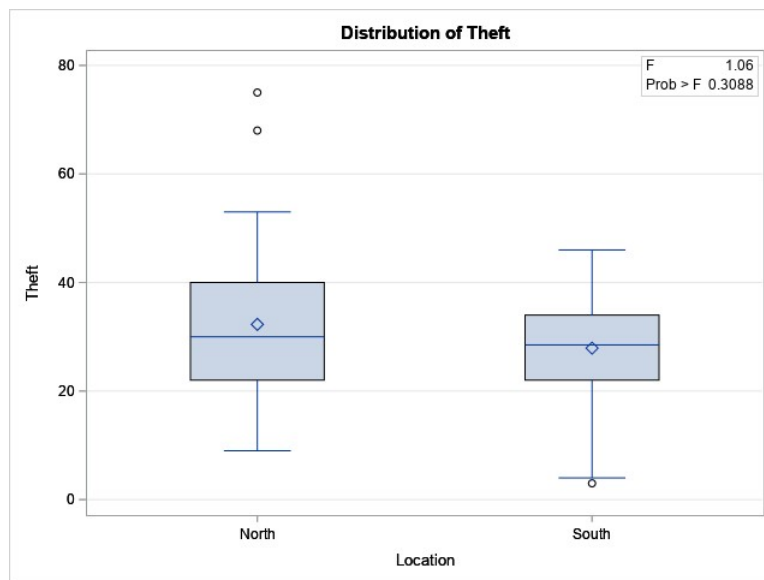
Dependent Variable: Theft

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	223.567350	223.567350	1.06	0.3088
Error	45	9492.858182	210.952404		
Corrected Total	46	9716.425532			

R-Square	Coeff Var	Root MSE	Theft Mean
0.023009	48.03923	14.52420	30.23404

Source	DF	Type I SS	Mean Square	F Value	Pr > F
Location	1	223.5673501	223.5673501	1.06	0.3088

Source	DF	Type III SS	Mean Square	F Value	Pr > F
Location	1	223.5673501	223.5673501	1.06	0.3088





## The SAS System

## The GLM Procedure

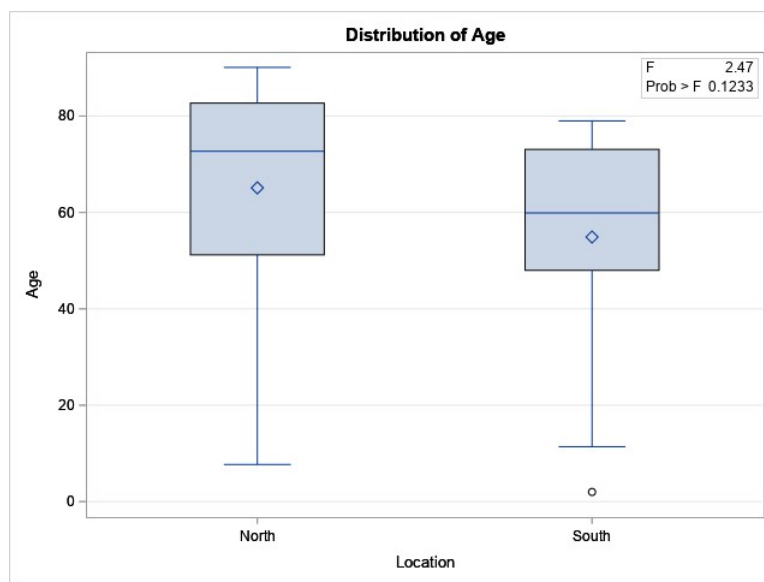
Dependent Variable: Age

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	1218.44444	1218.44444	2.47	0.1233
Error	45	22224.48960	493.87755		
Corrected Total	46	23442.93404			

R-Square	Coeff Var	Root MSE	Age Mean
0.051975	36.83776	22.22336	60.32766

Source	DF	Type I SS	Mean Square	F Value	Pr > F
Location	1	1218.444443	1218.444443	2.47	0.1233

Source	DF	Type III SS	Mean Square	F Value	Pr > F
Location	1	1218.444443	1218.444443	2.47	0.1233



## The SAS System

## The GLM Procedure

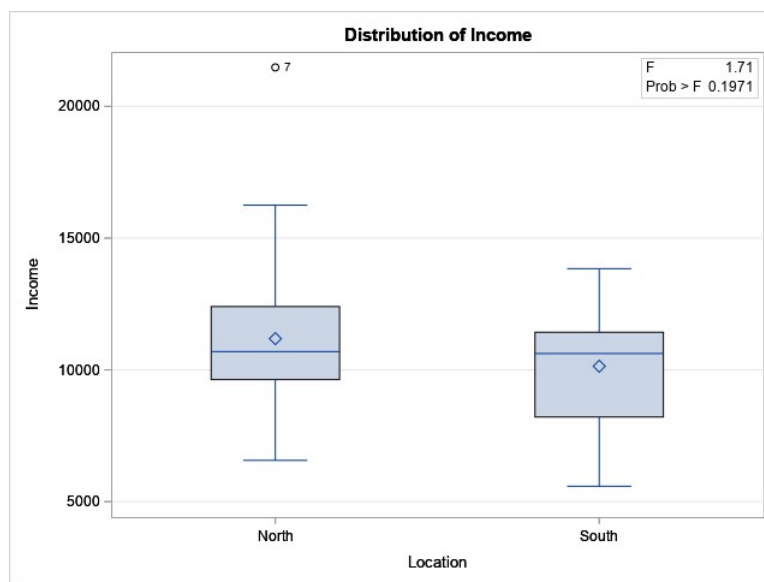
Dependent Variable: Income

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	12805221.1	12805221.1	1.71	0.1971
Error	45	336132685.6	7469615.2		
Corrected Total	46	348937906.6			

R-Square	Coeff Var	Root MSE	Income Mean
0.036698	25.55257	2733.060	10695.83

Source	DF	Type I SS	Mean Square	F Value	Pr > F
Location	1	12805221.08	12805221.08	1.71	0.1971

Source	DF	Type III SS	Mean Square	F Value	Pr > F
Location	1	12805221.08	12805221.08	1.71	0.1971



The SAS System

The GLM Procedure

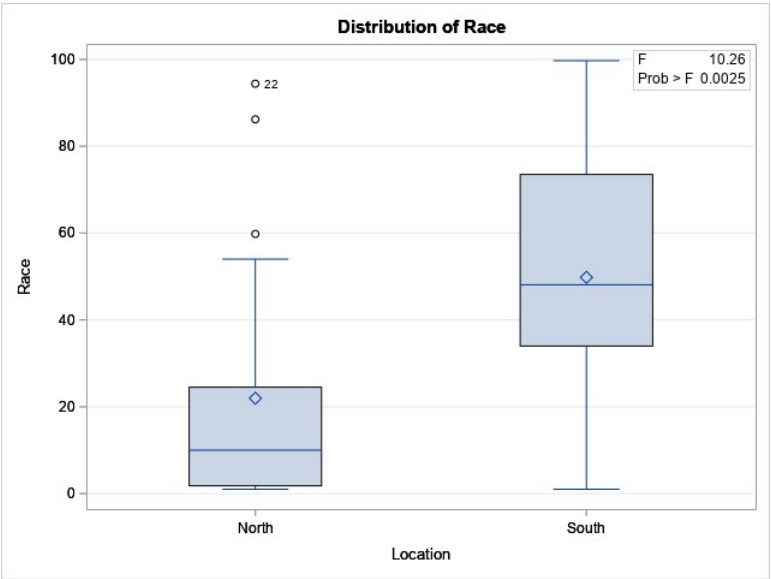
Dependent Variable: Race

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	9072.16763	9072.16763	10.26	0.0025
Error	45	39777.65195	883.94782		
Corrected Total	46	48849.81957			

R-Square	Coeff Var	Root MSE	Race Mean
0.185715	84.98262	29.73126	34.98511

Source	DF	Type I SS	Mean Square	F Value	Pr > F
Location	1	9072.167629	9072.167629	10.26	0.0025

Source	DF	Type III SS	Mean Square	F Value	Pr > F
Location	1	9072.167629	9072.167629	10.26	0.0025



The SAS System

The GLM Procedure  
Multivariate Analysis of Variance

Canonical Analysis												
H = Type III SSCP Matrix for Location E = Error SSCP Matrix												
	Canonical Correlation	Adjusted Canonical Correlation	Approximate Standard Error	Squared Canonical Correlation	Eigenvalues of Inv(E)*H = CanRsq/(1-CanRsq)				Test of H0: The canonical correlations in the current row and all that follow			
					Eigenvalue	Difference	Proportion	Cumulative	Likelihood Ratio	Approximate F Value	Num DF	Den DF
1	0.618637	0.579404	0.091014	0.382711	0.6200		1.0000	1.0000	0.61728882	5.08	5	

Note: The F statistic is exact.

Canonical Structure			
	Total	Between	Within
	Can1	Can1	Can1
Fire	0.0002	1.0000	0.0002
Theft	0.2452	1.0000	0.1949
Age	0.3685	1.0000	0.2974
Income	0.3097	1.0000	0.2479
Race	-0.6966	-1.0000	-0.6065

Canonical Coefficients		
	Standardized	Raw
	Can1	Can1
Fire	0.44670512	0.04802111
Theft	0.42867835	0.02949560
Age	0.45792652	0.02028471
Income	-0.07572404	-0.00002749
Race	-1.44751779	-0.04441926

MANOVA Test Criteria and Exact F Statistics for the Hypothesis of No Overall Location Effect  
H = Type III SSCP Matrix for Location  
E = Error SSCP Matrix

S=1 M=1.5 N=19.5					
Statistic	Value	F Value	Num DF	Den DF	Pr > F
Wilks' Lambda	0.61728882	5.08	5	41	0.0010
Pillai's Trace	0.38271118	5.08	5	41	0.0010
Hotelling-Lawley Trace	0.61998722	5.08	5	41	0.0010
Roy's Greatest Root	0.61998722	5.08	5	41	0.0010