```
* Encoding: UTF-8.

'Ejercicio 1 Analisis exploratorio de Datos co SPSS'.

>Error # 1.  Command name: 'Ejercicio
>The first word in the line is not recognized as an SPSS Statistics command.
>Execution of this command stops.

'Data fuente'.

>Error # 1.  Command name: 'Data
>The first word in the line is not recognized as an SPSS Statistics command.
>Execution of this command stops.
GET
  FILE='C:\Users\santi\OneDrive\Desktop\Entornos de Computación Estadística\Ac
tividad 2\Ficheros datos2 SPSS\Empleados.sav'.

>Warning # 67.  Command name: GET FILE
>The document is already in use by another user or process.  If you make
>changes to the document they may overwrite changes made by others or your
>changes may be overwritten by others.
>File opened C:\Users\santi\OneDrive\Desktop\Entornos de Computación Estadísti
ca\Actividad 2\Ficheros datos2 SPSS\Empleados.sav

>Warning # 5281.  Command name: GET FILE
>SPSS Statistics is running in Unicode encoding mode.  This file is encoded in
>a locale-specific (code page) encoding.  The defined width of any string
>variables are automatically tripled in order to avoid possible data loss.  Yo
u
>can use ALTER TYPE to set the width of string variables to the width of the
>longest observed value for each string variable.
DATASET NAME DataSet1 WINDOW=FRONT.
```

Dataset Name

Warnings

The active dataset will replace the existing dataset named DataSet1.

```
'1.Análisis de frecuencia y descriptivo'.

>Error # 1.  Command name: '1
```

```
>The first word in the line is not recognized as an SPSS Statistics command.
>Execution of this command stops.

DATASET ACTIVATE DataSet1.

SUMMARIZE
    VARIABLES= salario
    /STATISTICS=ALL.
```

Summarize

```
[DataSet1]
```

Case Processing Summary

	Cases					
	Included		Excluded		Total	
	N	Percent	N	Percent	N	Percent
Salario actual	474	100.0%	0	0.0%	474	100.0%

Report

Salario actual

Mean	N	Std. Deviation
$34,419.57	474	$17,075.661

```
FREQUENCIES
    VARIABLES= salario
    /HISTOGRAM.
```

Frequencies

Statistics

Salario actual

N	Valid	474
	Missing	0

Salario actual

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	$15,750	1	.2	.2	.2
	$15,900	1	.2	.2	.4
	$16,200	3	.6	.6	1.1
	$16,350	1	.2	.2	1.3
	$16,500	1	.2	.2	1.5
	$16,650	1	.2	.2	1.7
	$16,800	1	.2	.2	1.9
	$16,950	3	.6	.6	2.5
	$17,100	2	.4	.4	3.0
	$17,250	1	.2	.2	3.2
	$17,400	2	.4	.4	3.6
	$17,700	1	.2	.2	3.8
	$18,150	2	.4	.4	4.2
	$18,450	1	.2	.2	4.4
	$18,750	1	.2	.2	4.6
	$19,200	2	.4	.4	5.1
	$19,650	6	1.3	1.3	6.3
	$19,800	1	.2	.2	6.5
	$19,950	2	.4	.4	7.0
	$20,100	2	.4	.4	7.4
	$20,400	3	.6	.6	8.0
	$20,550	1	.2	.2	8.2
	$20,700	2	.4	.4	8.6
	$20,850	5	1.1	1.1	9.7
	$21,000	2	.4	.4	10.1
	$21,150	2	.4	.4	10.5
	$21,300	4	.8	.8	11.4
	$21,450	3	.6	.6	12.0
	$21,600	3	.6	.6	12.7
	$21,750	3	.6	.6	13.3
	$21,900	5	1.1	1.1	14.3
	$22,050	4	.8	.8	15.2
	$22,200	3	.6	.6	15.8
	$22,350	6	1.3	1.3	17.1
	$22,500	7	1.5	1.5	18.6

Salario actual

	Frequency	Percent	Valid Percent	Cumulative Percent
$22,650	2	.4	.4	19.0
$22,800	2	.4	.4	19.4
$22,950	4	.8	.8	20.3
$23,100	4	.8	.8	21.1
$23,250	2	.4	.4	21.5
$23,400	4	.8	.8	22.4
$23,550	2	.4	.4	22.8
$23,700	2	.4	.4	23.2
$23,850	2	.4	.4	23.6
$24,000	8	1.7	1.7	25.3
$24,150	4	.8	.8	26.2
$24,300	4	.8	.8	27.0
$24,450	8	1.7	1.7	28.7
$24,600	2	.4	.4	29.1
$24,750	4	.8	.8	30.0
$24,900	1	.2	.2	30.2
$25,050	4	.8	.8	31.0
$25,200	5	1.1	1.1	32.1
$25,350	2	.4	.4	32.5
$25,500	4	.8	.8	33.3
$25,650	2	.4	.4	33.8
$25,800	2	.4	.4	34.2
$25,950	4	.8	.8	35.0
$26,100	2	.4	.4	35.4
$26,250	7	1.5	1.5	36.9
$26,400	4	.8	.8	37.8
$26,550	5	1.1	1.1	38.8
$26,700	7	1.5	1.5	40.3
$26,850	2	.4	.4	40.7
$27,000	3	.6	.6	41.4
$27,150	2	.4	.4	41.8
$27,300	5	1.1	1.1	42.8
$27,450	5	1.1	1.1	43.9
$27,600	2	.4	.4	44.3
$27,750	7	1.5	1.5	45.8

Salario actual

	Frequency	Percent	Valid Percent	Cumulative Percent
$27,900	4	.8	.8	46.6
$28,050	3	.6	.6	47.3
$28,200	1	.2	.2	47.5
$28,350	3	.6	.6	48.1
$28,500	6	1.3	1.3	49.4
$28,650	1	.2	.2	49.6
$28,800	2	.4	.4	50.0
$28,950	1	.2	.2	50.2
$29,100	5	1.1	1.1	51.3
$29,160	1	.2	.2	51.5
$29,250	2	.4	.4	51.9
$29,340	1	.2	.2	52.1
$29,400	5	1.1	1.1	53.2
$29,550	1	.2	.2	53.4
$29,700	1	.2	.2	53.6
$29,850	4	.8	.8	54.4
$30,000	5	1.1	1.1	55.5
$30,150	2	.4	.4	55.9
$30,270	1	.2	.2	56.1
$30,300	4	.8	.8	57.0
$30,450	1	.2	.2	57.2
$30,600	3	.6	.6	57.8
$30,750	13	2.7	2.7	60.5
$30,900	3	.6	.6	61.2
$31,050	1	.2	.2	61.4
$31,200	3	.6	.6	62.0
$31,350	3	.6	.6	62.7
$31,500	3	.6	.6	63.3
$31,650	4	.8	.8	64.1
$31,950	4	.8	.8	65.0
$32,100	1	.2	.2	65.2
$32,400	1	.2	.2	65.4
$32,550	3	.6	.6	66.0
$32,850	1	.2	.2	66.2
$33,000	1	.2	.2	66.5

Salario actual

	Frequency	Percent	Valid Percent	Cumulative Percent
$33,150	1	.2	.2	66.7
$33,300	3	.6	.6	67.3
$33,450	1	.2	.2	67.5
$33,540	1	.2	.2	67.7
$33,750	1	.2	.2	67.9
$33,900	6	1.3	1.3	69.2
$34,410	1	.2	.2	69.4
$34,500	5	1.1	1.1	70.5
$34,620	1	.2	.2	70.7
$34,800	2	.4	.4	71.1
$34,950	1	.2	.2	71.3
$35,100	2	.4	.4	71.7
$35,250	4	.8	.8	72.6
$35,550	2	.4	.4	73.0
$35,700	3	.6	.6	73.6
$36,000	4	.8	.8	74.5
$36,150	1	.2	.2	74.7
$36,600	1	.2	.2	74.9
$37,050	1	.2	.2	75.1
$37,500	1	.2	.2	75.3
$37,650	1	.2	.2	75.5
$37,800	3	.6	.6	76.2
$38,400	1	.2	.2	76.4
$38,550	1	.2	.2	76.6
$38,700	1	.2	.2	76.8
$38,850	2	.4	.4	77.2
$39,150	1	.2	.2	77.4
$39,300	1	.2	.2	77.6
$39,600	1	.2	.2	77.8
$39,900	1	.2	.2	78.1
$40,050	1	.2	.2	78.3
$40,200	4	.8	.8	79.1
$40,350	2	.4	.4	79.5
$40,800	2	.4	.4	80.0
$41,100	1	.2	.2	80.2

Salario actual

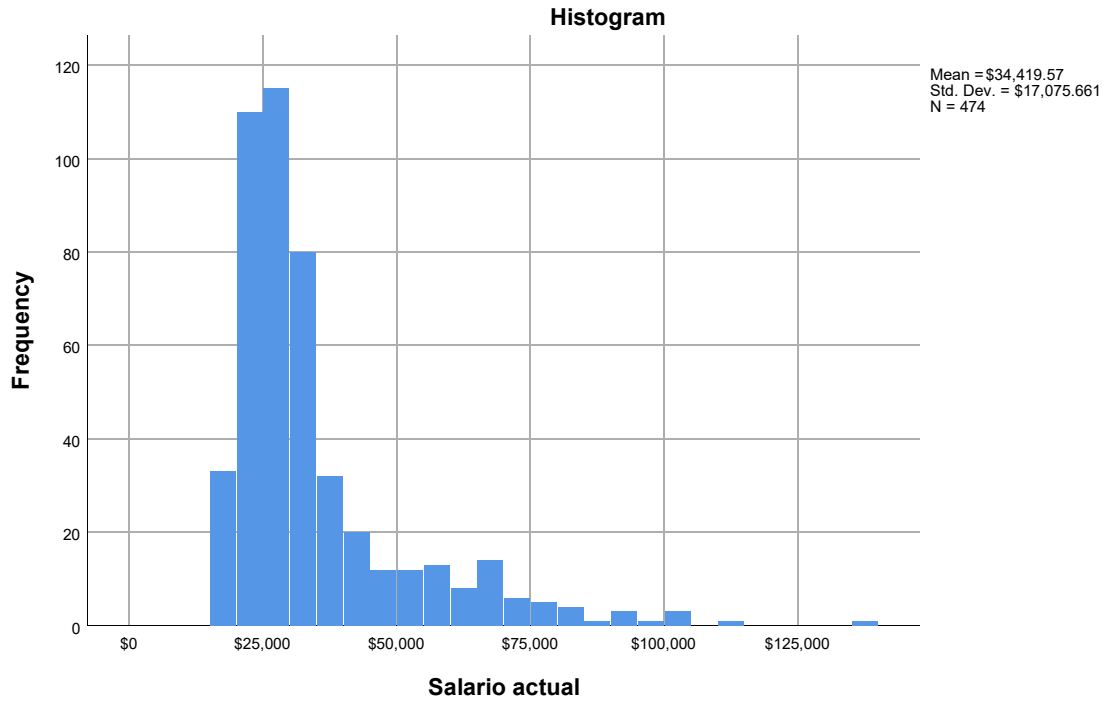
	Frequency	Percent	Valid Percent	Cumulative Percent
$41,550	1	.2	.2	80.4
$42,000	1	.2	.2	80.6
$42,300	2	.4	.4	81.0
$43,000	1	.2	.2	81.2
$43,410	1	.2	.2	81.4
$43,500	1	.2	.2	81.6
$43,650	1	.2	.2	81.9
$43,950	1	.2	.2	82.1
$44,875	1	.2	.2	82.3
$45,000	1	.2	.2	82.5
$45,150	1	.2	.2	82.7
$45,250	1	.2	.2	82.9
$45,625	1	.2	.2	83.1
$46,000	2	.4	.4	83.5
$46,875	1	.2	.2	83.8
$47,250	1	.2	.2	84.0
$47,550	1	.2	.2	84.2
$48,000	1	.2	.2	84.4
$48,750	1	.2	.2	84.6
$49,000	1	.2	.2	84.8
$50,000	1	.2	.2	85.0
$50,550	1	.2	.2	85.2
$51,000	1	.2	.2	85.4
$51,250	1	.2	.2	85.7
$51,450	1	.2	.2	85.9
$52,125	1	.2	.2	86.1
$52,650	1	.2	.2	86.3
$53,125	1	.2	.2	86.5
$54,000	1	.2	.2	86.7
$54,375	1	.2	.2	86.9
$54,875	1	.2	.2	87.1
$54,900	1	.2	.2	87.3
$55,000	3	.6	.6	88.0
$55,500	1	.2	.2	88.2
$55,750	1	.2	.2	88.4

Salario actual

	Frequency	Percent	Valid Percent	Cumulative Percent
$56,500	1	.2	.2	88.6
$56,550	1	.2	.2	88.8
$56,750	1	.2	.2	89.0
$57,000	1	.2	.2	89.2
$58,125	1	.2	.2	89.5
$58,750	1	.2	.2	89.7
$59,375	1	.2	.2	89.9
$59,400	1	.2	.2	90.1
$60,000	2	.4	.4	90.5
$60,375	1	.2	.2	90.7
$60,625	1	.2	.2	90.9
$61,250	1	.2	.2	91.1
$61,875	2	.4	.4	91.6
$62,500	1	.2	.2	91.8
$65,000	3	.6	.6	92.4
$66,000	1	.2	.2	92.6
$66,250	1	.2	.2	92.8
$66,750	1	.2	.2	93.0
$66,875	2	.4	.4	93.5
$67,500	1	.2	.2	93.7
$68,125	2	.4	.4	94.1
$68,750	2	.4	.4	94.5
$69,250	1	.2	.2	94.7
$70,000	2	.4	.4	95.1
$70,875	1	.2	.2	95.4
$72,500	1	.2	.2	95.6
$73,500	1	.2	.2	95.8
$73,750	1	.2	.2	96.0
$75,000	2	.4	.4	96.4
$78,125	1	.2	.2	96.6
$78,250	1	.2	.2	96.8
$78,500	1	.2	.2	97.0
$80,000	1	.2	.2	97.3
$81,250	1	.2	.2	97.5
$82,500	1	.2	.2	97.7

Salario actual

	Frequency	Percent	Valid Percent	Cumulative Percent
$83,750	1	.2	.2	97.9
$86,250	1	.2	.2	98.1
$90,625	1	.2	.2	98.3
$91,250	1	.2	.2	98.5
$92,000	1	.2	.2	98.7
$97,000	1	.2	.2	98.9
$100,000	1	.2	.2	99.2
$103,500	1	.2	.2	99.4
$103,750	1	.2	.2	99.6
$110,625	1	.2	.2	99.8
$135,000	1	.2	.2	100.0
Total	474	100.0	100.0	




```
FREQUENCIES
    VARIABLES=educ  /FORMAT=AVALUE
    /BARCHART FREQ
    /ORDER=  ANALYSIS
    /STATISTICS ALL.
```

Frequencies

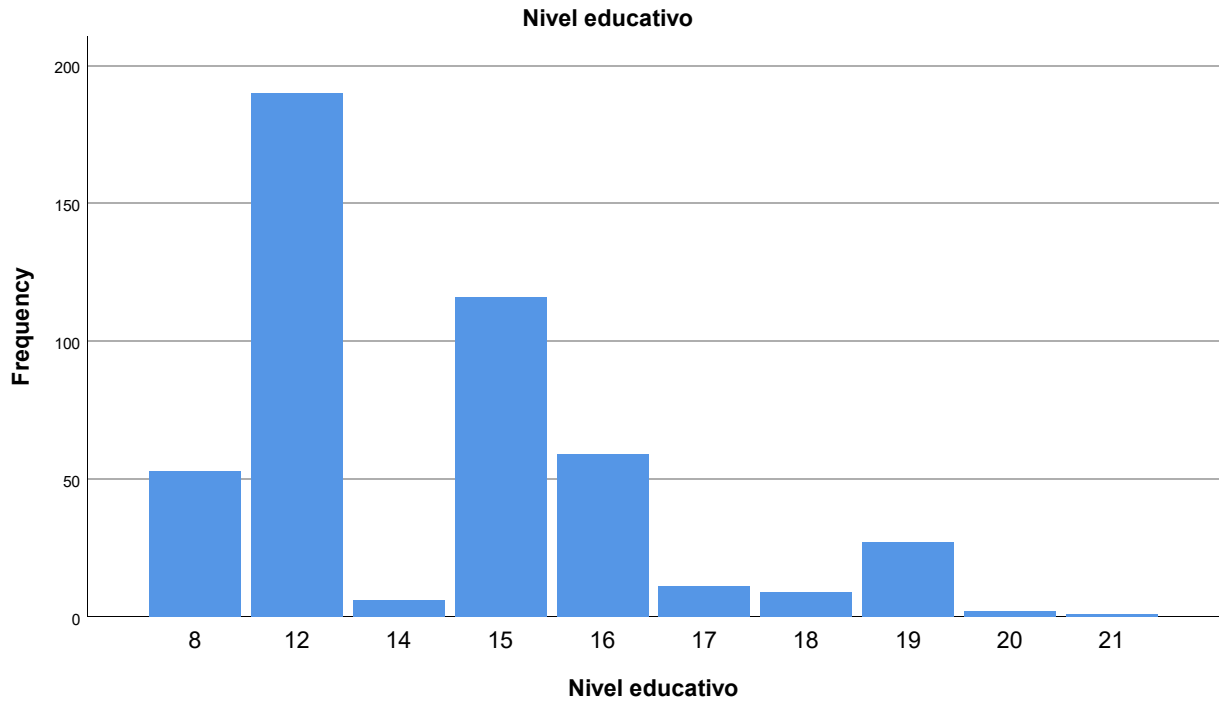
Statistics

Nivel educativo

N	Valid	474
	Missing	0
Mean		13.49
Std. Error of Mean		.133
Median		12.00
Mode		12
Std. Deviation		2.885
Variance		8.322
Skewness		-.114
Std. Error of Skewness		.112
Kurtosis		-.265
Std. Error of Kurtosis		.224
Range		13
Minimum		8
Maximum		21
Sum		6395

Nivel educativo

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	8	53	11.2	11.2	11.2
	12	190	40.1	40.1	51.3
	14	6	1.3	1.3	52.5
	15	116	24.5	24.5	77.0
	16	59	12.4	12.4	89.5
	17	11	2.3	2.3	91.8
	18	9	1.9	1.9	93.7
	19	27	5.7	5.7	99.4
	20	2	.4	.4	99.8
	21	1	.2	.2	100.0
	Total	474	100.0	100.0	



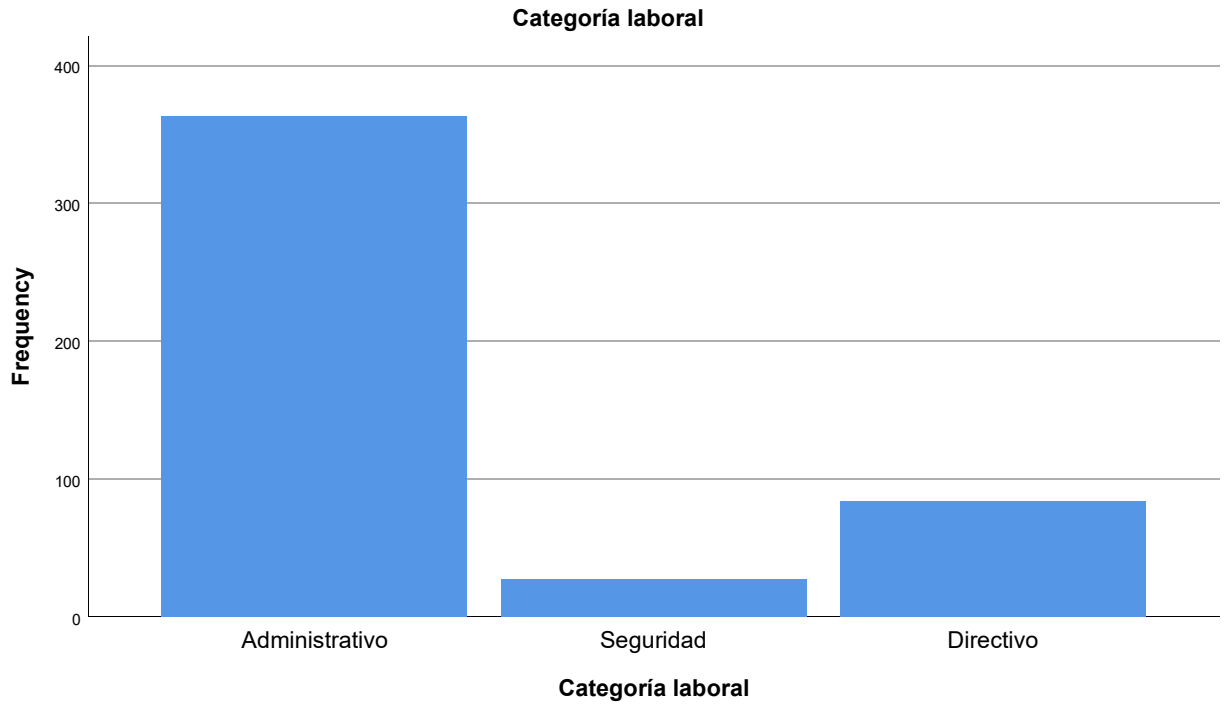

```
FREQUENCIES
    VARIABLES=catlab  /FORMAT=NOTABLE
    /BARCHART  FREQ
    /ORDER=  ANALYSIS.
```

Frequencies

Statistics

Categoría laboral

N	Valid	474
	Missing	0




```
'2.Análisis exploratorio'

>Error # 1.  Command name: '2
>The first word in the line is not recognized as an SPSS Statistics command.
>Execution of this command stops.

EXAMINE
VARIABLES=salario tiempemp BY catlab
    /PLOT BOXPLOT STEMLEAF HISTOGRAM NPPLOT
    /COMPARE GROUP
    /PERCENTILES (5,10,25,50,75,90,95) HAVERAGE
    /STATISTICS DESCRIPTIVES EXTREME
    /CINTERVAL 95
    /MISSING LISTWISE
    /NOTOTAL.
```

Explore

Categoría laboral

Case Processing Summary

		Cases				
		Valid		Missing		Total
	Categoría laboral	N	Percent	N	Percent	N
Salario actual	Administrativo	363	100.0%	0	0.0%	363
	Seguridad	27	100.0%	0	0.0%	27
	Directivo	84	100.0%	0	0.0%	84
Meses desde el contrato	Administrativo	363	100.0%	0	0.0%	363
	Seguridad	27	100.0%	0	0.0%	27
	Directivo	84	100.0%	0	0.0%	84

Case Processing Summary

		Cases
		Total
	Categoría laboral	Percent
Salario actual	Administrativo	100.0%
	Seguridad	100.0%
	Directivo	100.0%
Meses desde el contrato	Administrativo	100.0%
	Seguridad	100.0%
	Directivo	100.0%

Descriptives

	Categoría laboral			Statistic
Salario actual	Administrativo	Mean		$27,838.54
		95% Confidence Interval for Mean	Lower Bound	$27,057.40
			Upper Bound	$28,619.68
		5% Trimmed Mean		$27,290.50
		Median		$26,550.00
		Variance		57274547.72
		Std. Deviation		$7,567.995
		Minimum		$15,750
		Maximum		$80,000
		Range		$64,250
		Interquartile Range		$8,400
		Skewness		1.905
		Kurtosis		7.977
	Seguridad	Mean		$30,938.89
		95% Confidence Interval for Mean	Lower Bound	$30,102.37
			Upper Bound	$31,775.40
		5% Trimmed Mean		$31,007.72
		Median		$30,750.00
		Variance		4471602.564
		Std. Deviation		$2,114.616
		Minimum		$24,300
		Maximum		$35,250
		Range		$10,950
		Interquartile Range		$1,200
		Skewness		-.368
		Kurtosis		3.652
	Directivo	Mean		$63,977.80
		95% Confidence Interval for Mean	Lower Bound	$60,018.44
			Upper Bound	$67,937.16
		5% Trimmed Mean		$62,728.31
		Median		$60,500.00
		Variance		332871850.2
		Std. Deviation		$18,244.776
		Minimum		$34,410
		Maximum		$135,000

Descriptives

	Categoría laboral			Std. Error
Salario actual	Administrativo	Mean		$397.217
		95% Confidence Interval for Mean	Lower Bound	
			Upper Bound	
		5% Trimmed Mean		
		Median		
		Variance		
		Std. Deviation		
		Minimum		
		Maximum		
		Range		
		Interquartile Range		
		Skewness		.128
		Kurtosis		.255
	Seguridad	Mean		$406.958
		95% Confidence Interval for Mean	Lower Bound	
			Upper Bound	
		5% Trimmed Mean		
		Median		
		Variance		
		Std. Deviation		
		Minimum		
		Maximum		
		Range		
		Interquartile Range		
		Skewness		.448
		Kurtosis		.872
	Directivo	Mean		$1,990.668
		95% Confidence Interval for Mean	Lower Bound	
			Upper Bound	
		5% Trimmed Mean		
		Median		
		Variance		
		Std. Deviation		
		Minimum		
		Maximum		

Descriptives

	Categoría laboral			Statistic
		Range		$100,590
		Interquartile Range		$20,475
		Skewness		1.181
		Kurtosis		2.107
Meses desde el contrato	Administrativo	Mean		81.07
		95% Confidence Interval for Mean	Lower Bound	80.02
			Upper Bound	82.11
		5% Trimmed Mean		81.07
		Median		81.00
		Variance		102.222
		Std. Deviation		10.110
		Minimum		63
		Maximum		98
		Range		35
		Interquartile Range		18
		Skewness		-.021
		Kurtosis		-1.149
	Seguridad	Mean		81.56
		95% Confidence Interval for Mean	Lower Bound	78.20
			Upper Bound	84.91
		5% Trimmed Mean		81.62
		Median		80.00
		Variance		72.026
		Std. Deviation		8.487
		Minimum		67
		Maximum		95
		Range		28
		Interquartile Range		14
		Skewness		-.087
		Kurtosis		-1.077
	Directivo	Mean		81.15
		95% Confidence Interval for Mean	Lower Bound	78.90
			Upper Bound	83.41
		5% Trimmed Mean		81.21
		Median		81.00

Descriptives

	Categoría laboral			Std. Error
		Range		
		Interquartile Range		
		Skewness		.263
		Kurtosis		.520
Meses desde el contrato	Administrativo	Mean		.531
		95% Confidence Interval for Mean	Lower Bound	
			Upper Bound	
		5% Trimmed Mean		
		Median		
		Variance		
		Std. Deviation		
		Minimum		
		Maximum		
		Range		
		Interquartile Range		
		Skewness		.128
		Kurtosis		.255
	Seguridad	Mean		1.633
		95% Confidence Interval for Mean	Lower Bound	
			Upper Bound	
		5% Trimmed Mean		
		Median		
		Variance		
		Std. Deviation		
		Minimum		
		Maximum		
		Range		
		Interquartile Range		
		Skewness		.448
		Kurtosis		.872
	Directivo	Mean		1.136
		95% Confidence Interval for Mean	Lower Bound	
			Upper Bound	
		5% Trimmed Mean		
		Median		

Descriptives

Categoría laboral		Statistic
	Variance	108.373
	Std. Deviation	10.410
	Minimum	64
	Maximum	98
	Range	34
	Interquartile Range	18
	Skewness	-.164
	Kurtosis	-1.230

Descriptives

Categoría laboral		Std. Error
	Variance	
	Std. Deviation	
	Minimum	
	Maximum	
	Range	
	Interquartile Range	
	Skewness	.263
	Kurtosis	.520

Percentiles

			Percentiles	
		Categoría laboral	5	10
Weighted Average (Definition 1)	Salario actual	Administrativo	$17,790.00	$20,400.00
		Seguridad	$25,980.00	$29,340.00
		Directivo	$40,087.50	$43,250.00
	Meses desde el contrato	Administrativo	66.00	67.00
		Seguridad	67.40	68.80
		Directivo	65.00	65.00
Tukey's Hinges	Salario actual	Administrativo		
		Seguridad		
		Directivo		
	Meses desde el contrato	Administrativo		
		Seguridad		
		Directivo		

Percentiles

			Percentiles	
		Categoría laboral	25	50
Weighted Average (Definition 1)	Salario actual	Administrativo	$22,800.00	$26,550.00
		Seguridad	$30,000.00	$30,750.00
		Directivo	$51,618.75	$60,500.00
	Meses desde el contrato	Administrativo	72.00	81.00
		Seguridad	76.00	80.00
		Directivo	73.00	81.00
Tukey's Hinges	Salario actual	Administrativo	$22,800.00	$26,550.00
		Seguridad	$30,150.00	$30,750.00
		Directivo	$51,787.50	$60,500.00
	Meses desde el contrato	Administrativo	72.00	81.00
		Seguridad	76.50	80.00
		Directivo	73.00	81.00

Percentiles

			Percentiles	
		Categoría laboral	75	90
Weighted Average (Definition 1)	Salario actual	Administrativo	$31,200.00	$36,870.00
		Seguridad	$31,200.00	$34,650.00
		Directivo	$72,093.75	$90,937.50
	Meses desde el contrato	Administrativo	90.00	95.00
		Seguridad	90.00	92.40
		Directivo	91.00	94.00
Tukey's Hinges	Salario actual	Administrativo	$31,200.00	
		Seguridad	$30,975.00	
		Directivo	$71,687.50	
	Meses desde el contrato	Administrativo	90.00	
		Seguridad	90.00	
		Directivo	91.00	

Percentiles

			Percentiles
		Categoría laboral	95
Weighted Average (Definition 1)	Salario actual	Administrativo	$40,710.00
		Seguridad	$35,250.00
		Directivo	$102,625.00
	Meses desde el contrato	Administrativo	97.00
		Seguridad	94.60
		Directivo	96.00
Tukey's Hinges	Salario actual	Administrativo	
		Seguridad	
		Directivo	
	Meses desde el contrato	Administrativo	
		Seguridad	
		Directivo	

Extreme Values

	Categoría laboral			Case Number	Value
Salario actual	Administrativo	Highest	1	218	$80,000
			2	272	$66,875
			3	72	$54,000
			4	161	$52,650
			5	80	$51,000
		Lowest	1	378	$15,750
			2	338	$15,900
			3	411	$16,200
			4	224	$16,200
			5	90	$16,200
	Seguridad	Highest	1	291	$35,250
			2	303	$35,250
			3	281	$34,500
			4	206	$33,750
			5	174	$31,950[a]
		Lowest	1	126	$24,300
			2	386	$28,500
			3	326	$29,550

Extreme Values

	Categoría laboral			Case Number	Value
			4	429	$30,000
			5	385	$30,000[b]
	Directivo	Highest	1	29	$135,000
			2	32	$110,625
			3	18	$103,750
			4	343	$103,500
			5	446	$100,000
		Lowest	1	462	$34,410
			2	120	$37,800
			3	288	$38,700
			4	286	$40,050
			5	231	$40,200
Meses desde el contrato	Administrativo	Highest	1	2	98
			2	3	98
			3	4	98
			4	5	98
			5	6	98[c]
		Lowest	1	474	63
			2	473	63
			3	472	63
			4	471	64
			5	470	64[d]
	Seguridad	Highest	1	45	95
			2	48	94
			3	96	92
			4	98	92
			5	111	91[e]
		Lowest	1	429	67
			2	414	68
			3	386	69
			4	385	69
			5	353	73
	Directivo	Highest	1	1	98
			2	18	97

Extreme Values

Categoría laboral			Case Number	Value
		3	27	96
		4	29	96
		5	32	96[f]
	Lowest	1	468	64
		2	464	64
		3	462	65
		4	458	65
		5	456	65[g]

a. Only a partial list of cases with the value $31,950 are shown in the table of upper extremes.

b. Only a partial list of cases with the value $30,000 are shown in the table of lower extremes.

c. Only a partial list of cases with the value 98 are shown in the table of upper extremes.

d. Only a partial list of cases with the value 64 are shown in the table of lower extremes.

e. Only a partial list of cases with the value 91 are shown in the table of upper extremes.

f. Only a partial list of cases with the value 96 are shown in the table of upper extremes.

g. Only a partial list of cases with the value 65 are shown in the table of lower extremes.

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk	
	Categoría laboral	Statistic	df	Sig.	Statistic	df
Salario actual	Administrativo	.107	363	.000	.882	363
	Seguridad	.276	27	.000	.818	27
	Directivo	.109	84	.016	.929	84
Meses desde el contrato	Administrativo	.084	363	.000	.955	363
	Seguridad	.136	27	.200*	.948	27
	Directivo	.108	84	.017	.934	84

Tests of Normality

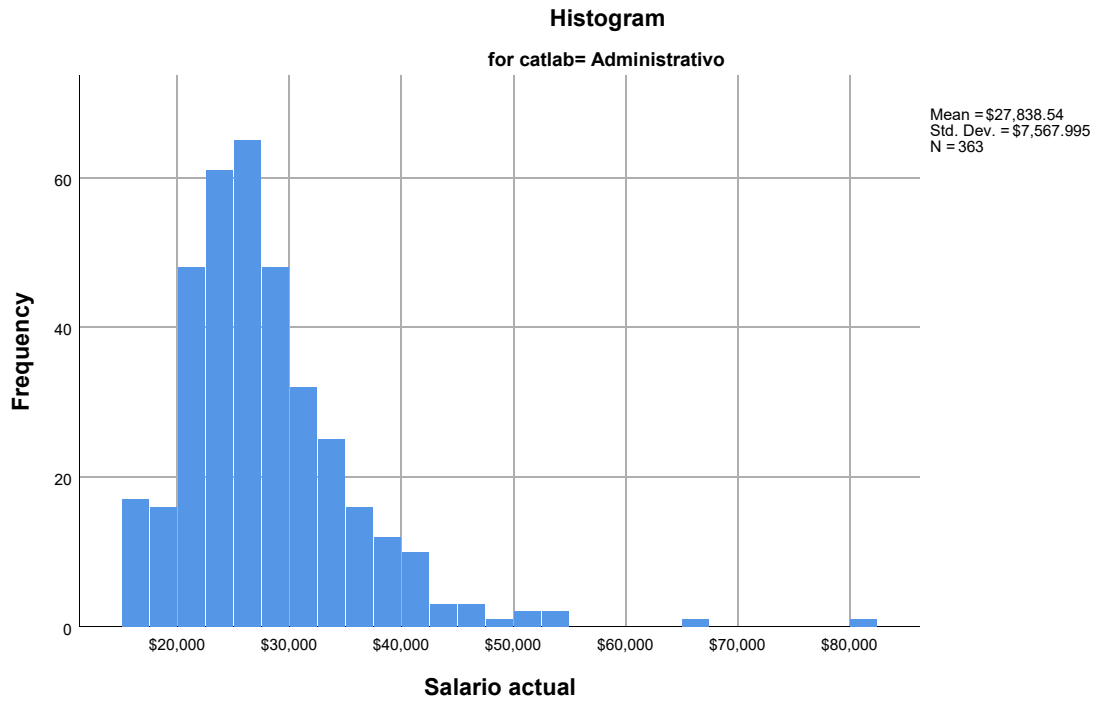
	Categoría laboral	Shapiro-... Sig.
Salario actual	Administrativo	.000
	Seguridad	.000
	Directivo	.000
Meses desde el contrato	Administrativo	.000
	Seguridad	.191
	Directivo	.000

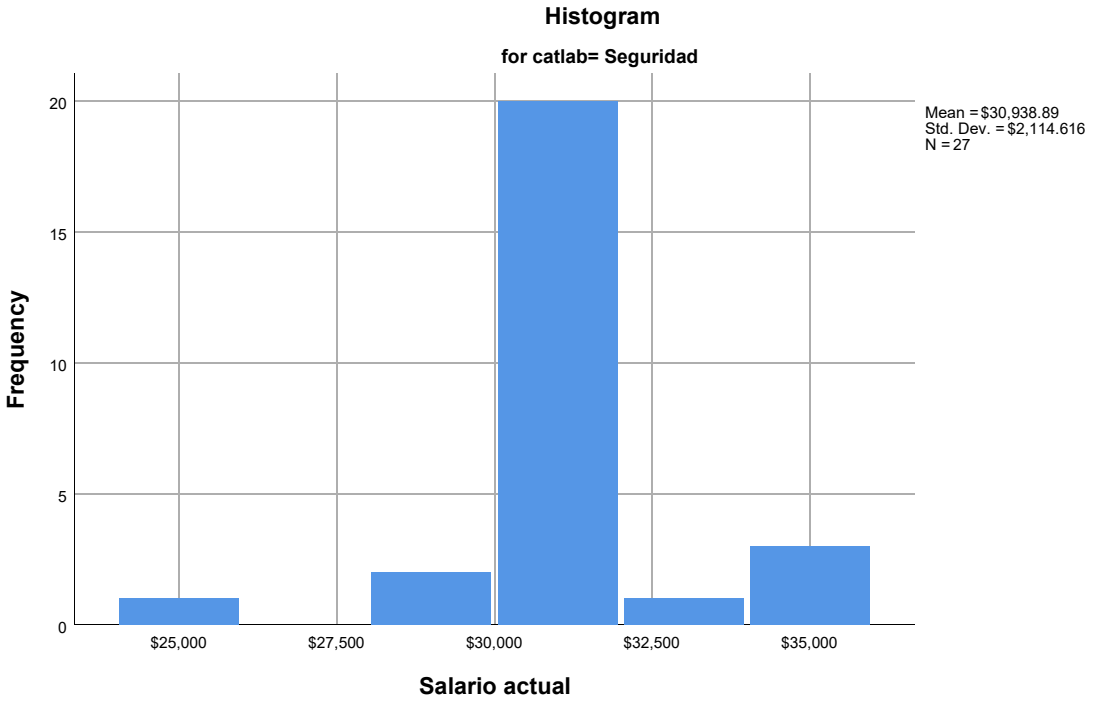
*. This is a lower bound of the true significance.

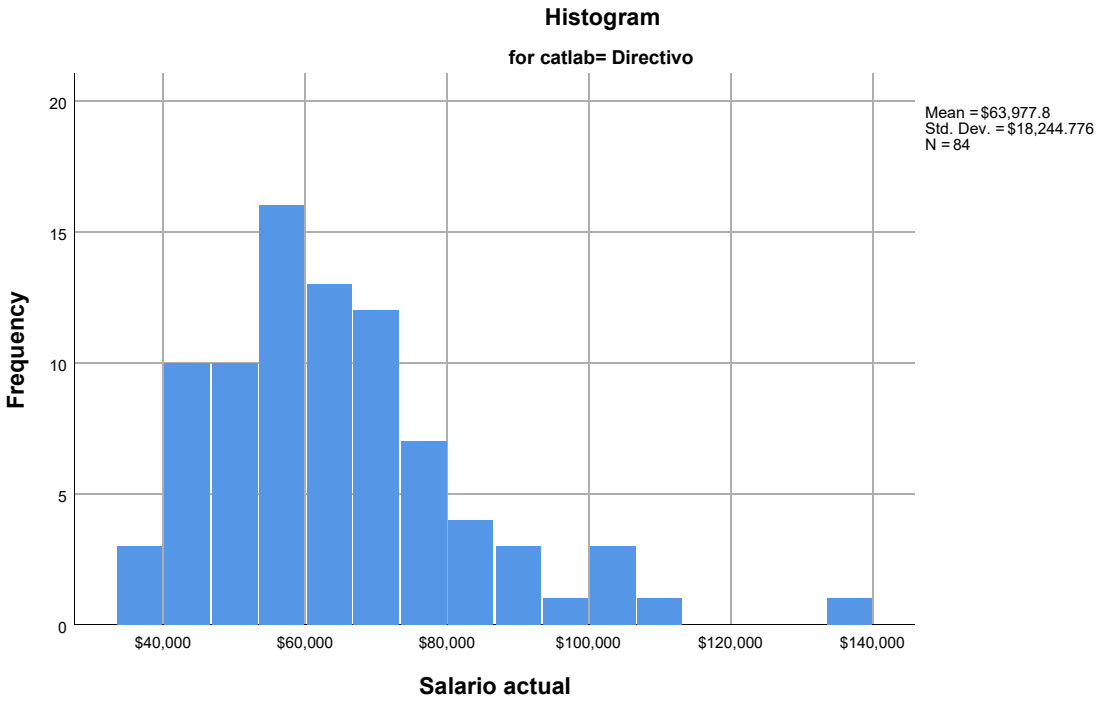
a. Lilliefors Significance Correction

Salario actual

Histograms







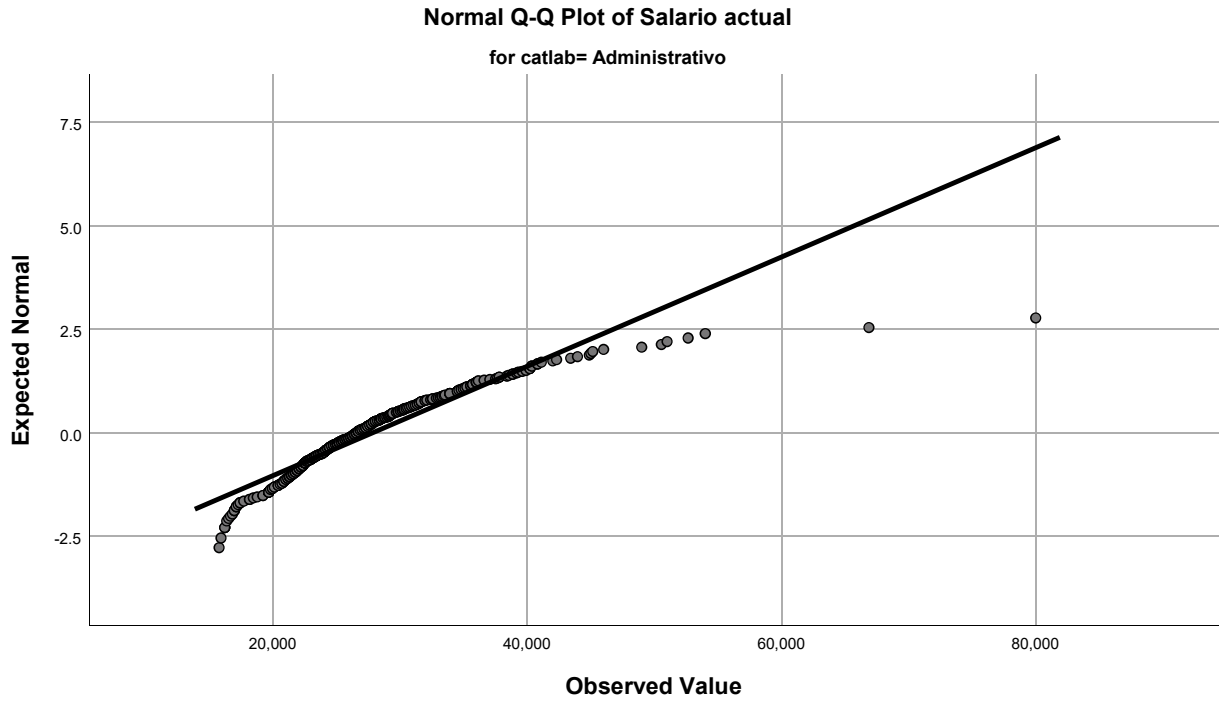
Stem-and-Leaf Plots

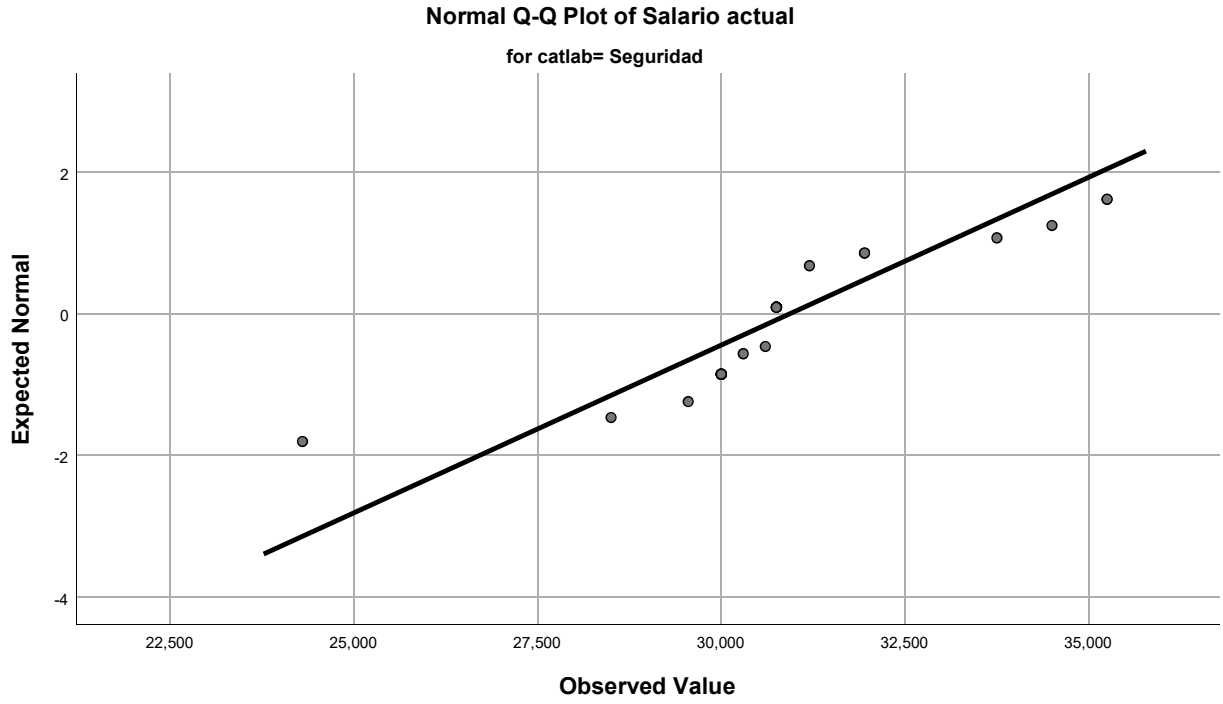
Salario actual Stem-and-Leaf Plot for
catlab= Administrativo

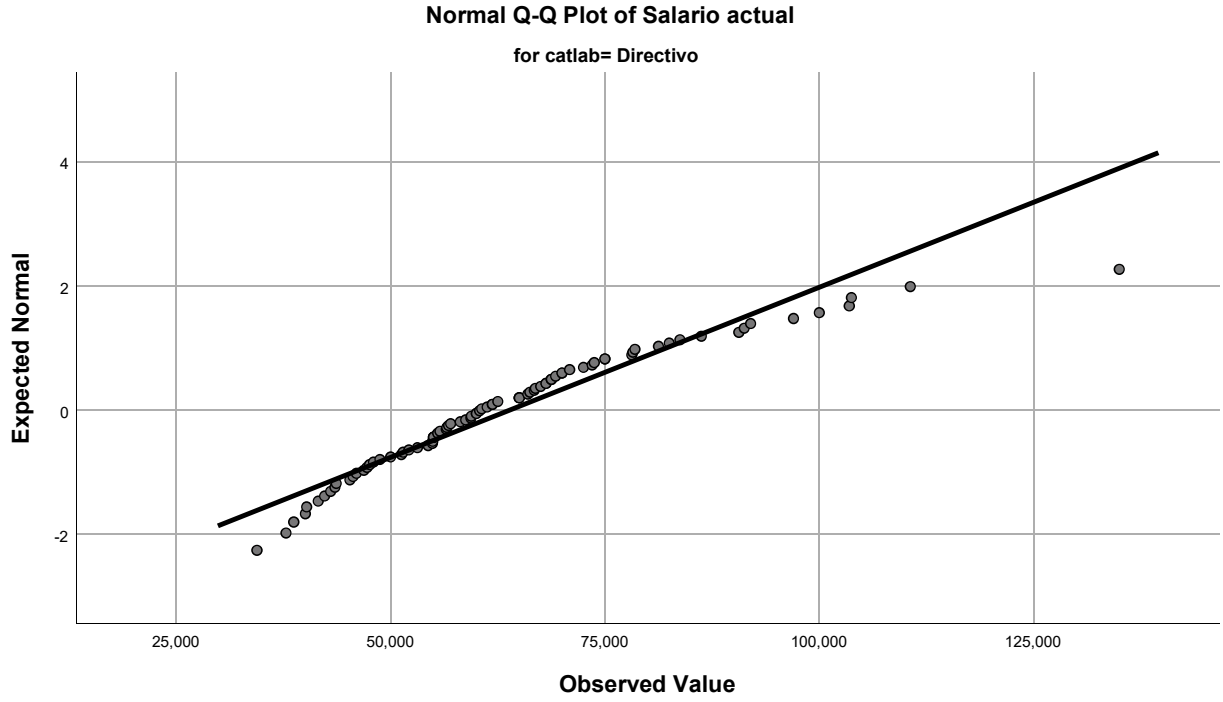
```
 Frequency    Stem &  Leaf

     2.00        1 .  55
    16.00        1 .  6666666666777777
    15.00        1 .  888899999999999
    35.00        2 .  00000000000001111111111111111111111
    44.00        2 .  22222222222222222222222222333333333333333333
    53.00        2 .  44444444444444444444444444445555555555555555555555555
    55.00        2 .  66666666666666666666666666677777777777777777777777777777
    35.00        2 .  88888888888888899999999999999999999
    30.00        3 .  000000000000000111111111111111
    19.00        3 .  2222223333333333333
    17.00        3 .  44444444555555555
    11.00        3 .  66666677777
     8.00        3 .  88889999
     8.00        4 .  00000001
     3.00        4 .  223
    12.00 Extremes    (>=43950)

 Stem width:     10000
 Each leaf:        1 case(s)



Salario actual Stem-and-Leaf Plot for
catlab= Seguridad

 Frequency    Stem &  Leaf

     2.00 Extremes    (=<28500)
     1.00       29 .  5
     5.00       30 .  00003
    12.00       30 .  677777777777
     1.00       31 .  2
     2.00       31 .  99
     4.00 Extremes    (>=33750)

 Stem width:      1000
 Each leaf:        1 case(s)
```

```
Salario actual Stem-and-Leaf Plot for
catlab= Directivo

 Frequency    Stem &  Leaf

     3.00        3 .  478
    15.00        4 .  001233355667788
    21.00        5 .  011234445555566678899
    21.00        6 .  000011125556666788889
    11.00        7 .  00023355888
     4.00        8 .  1236
     4.00        9 .  0127
     1.00       10 .  0
     4.00 Extremes    (>=103500)

 Stem width:     10000
 Each leaf:        1 case(s)
```

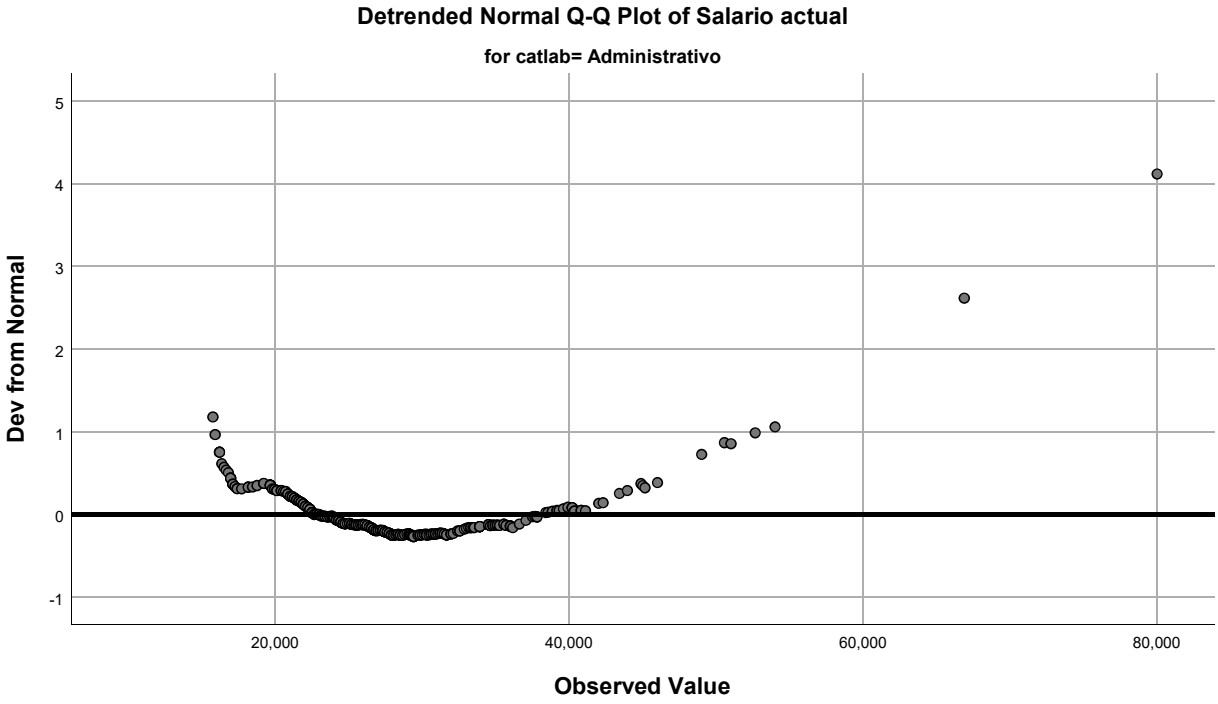
Normal Q-Q Plots

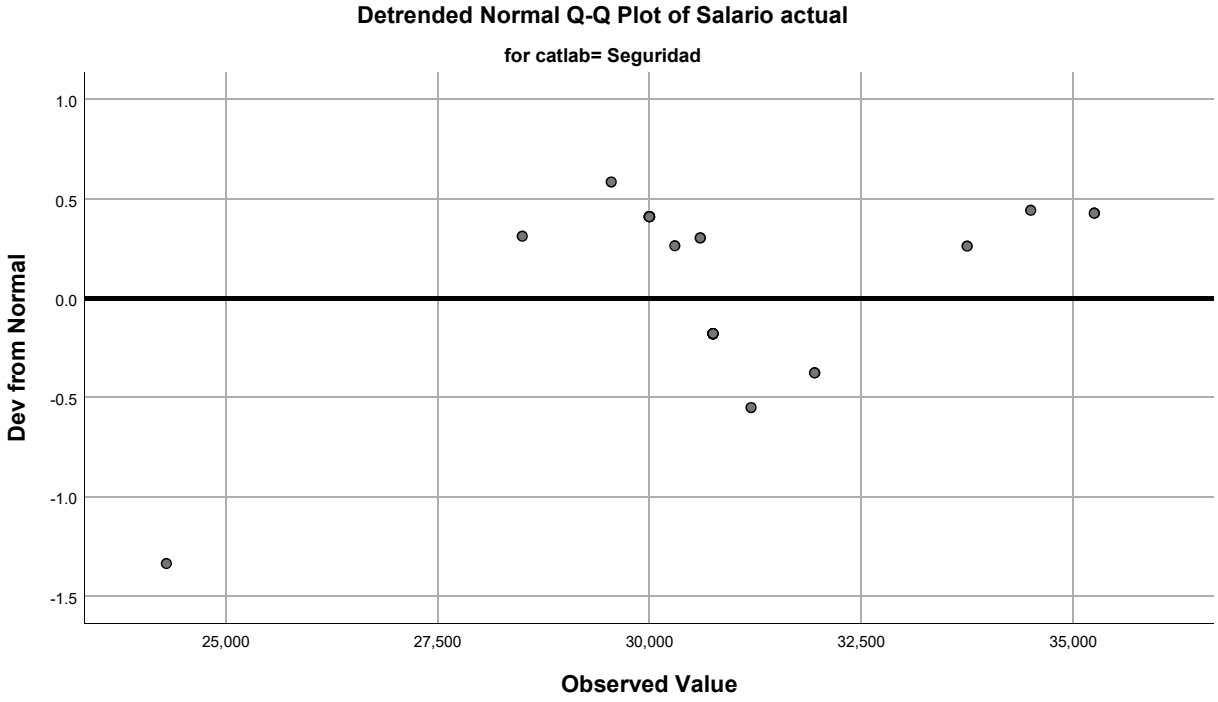


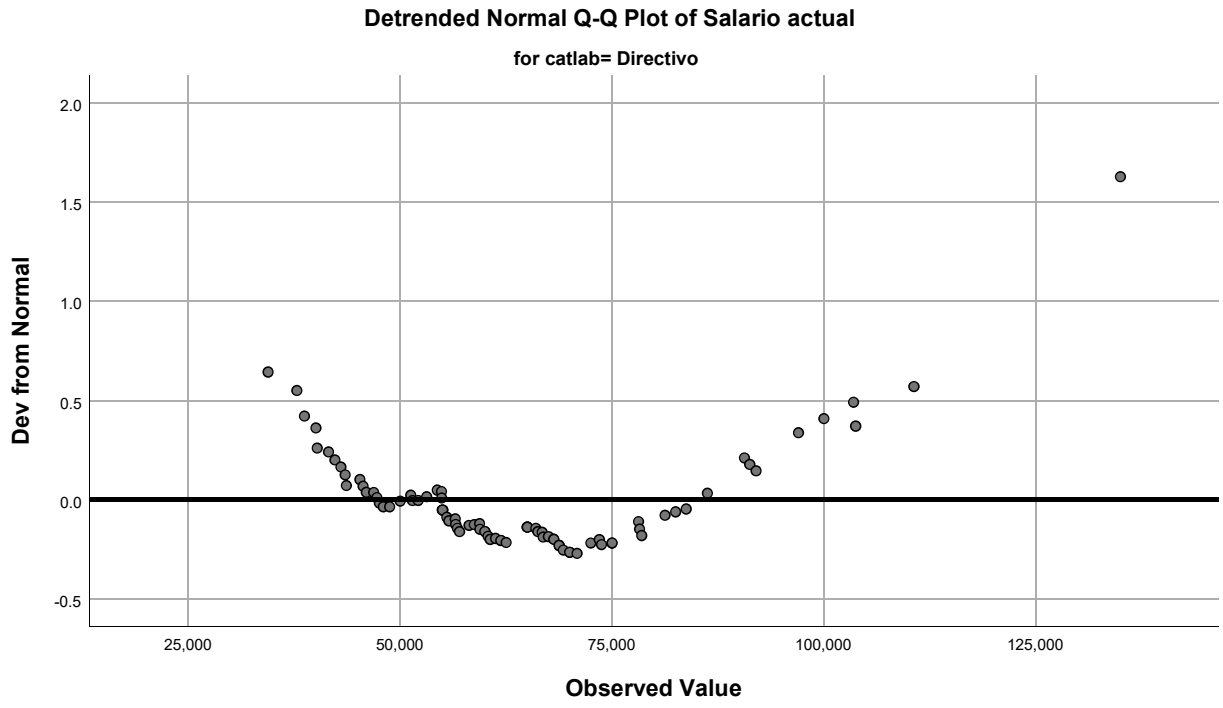


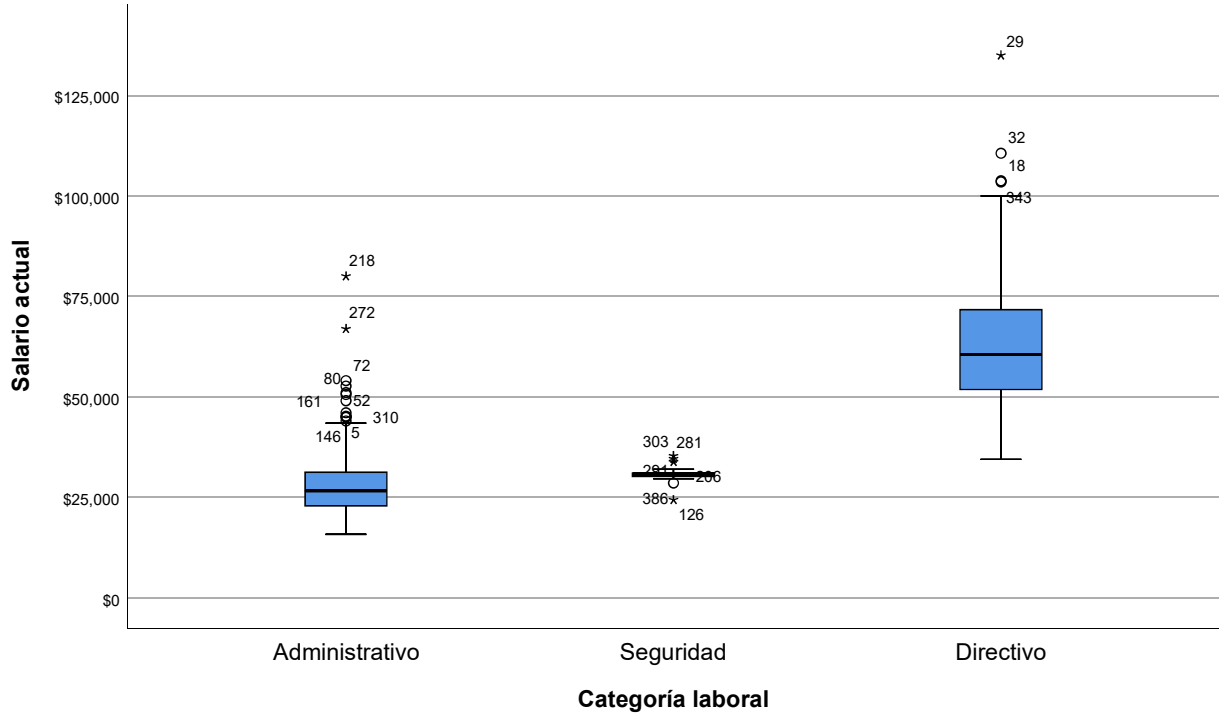


Detrended Normal Q-Q Plots


Detrended Normal Q-Q Plot of Salario actual
for catlab= Administrativo
Dev from Normal
5
4
3
2
1
0
-1
20,000
40,000
60,000
80,000
Observed Value

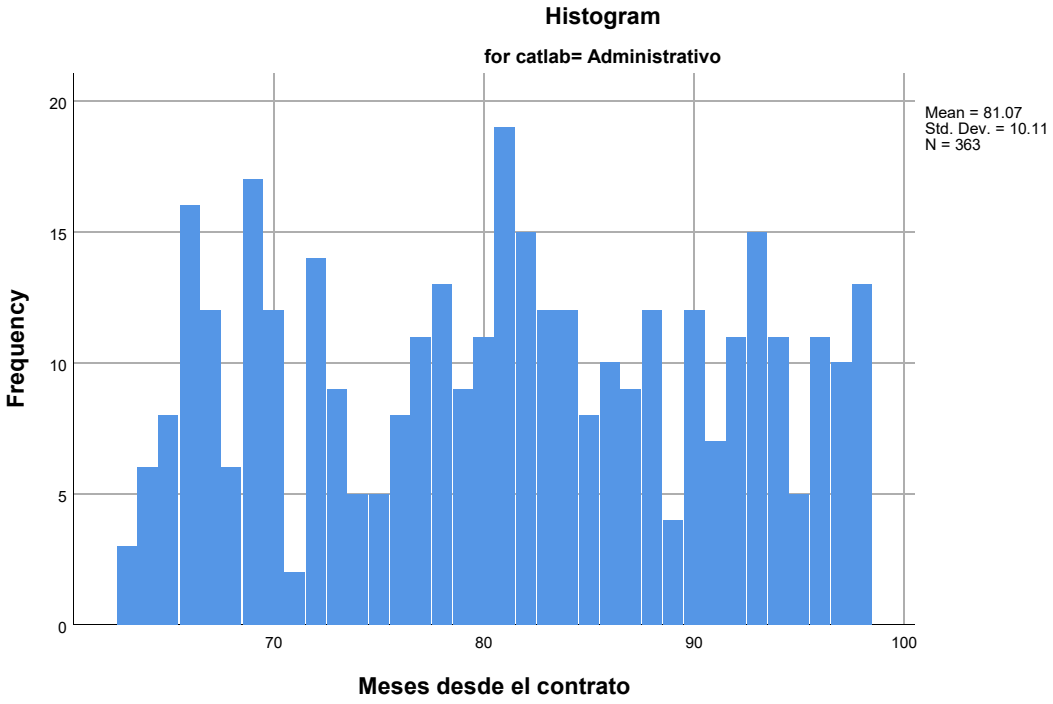

Detrended Normal Q-Q Plot of Salario actual
for catlab= Seguridad
Dev from Normal
1.0
0.5
0.0
-0.5
-1.0
-1.5
25,000
27,500
30,000
32,500
35,000
Observed Value

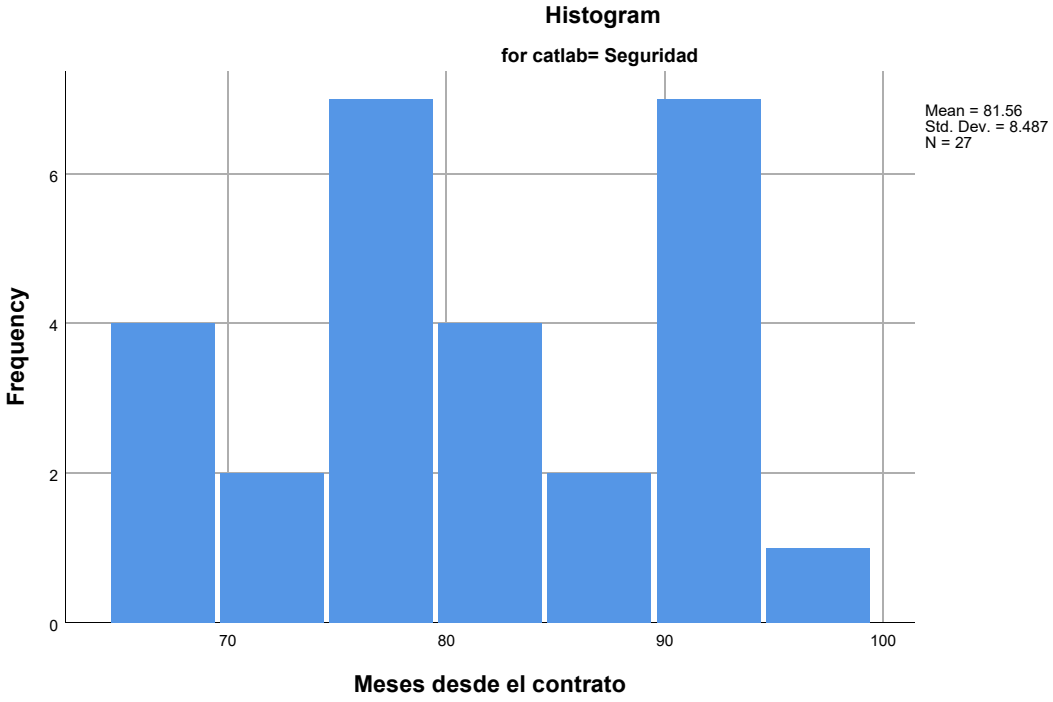


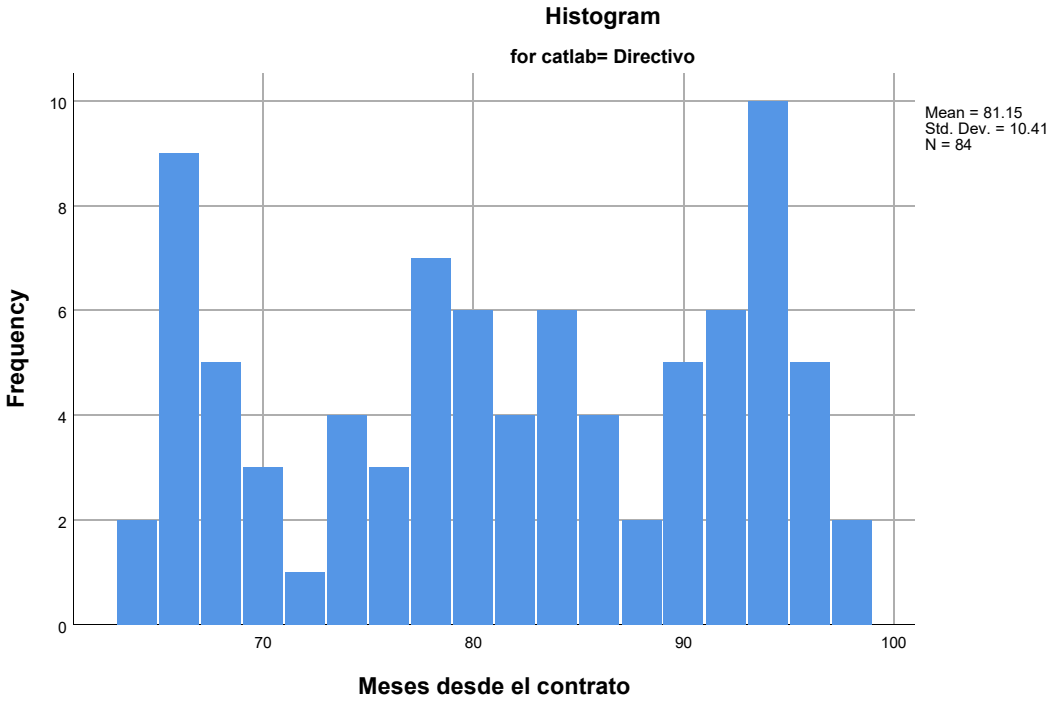


Meses desde el contrato

Histograms


Histogram
for catlab= Administrativo
Mean = 81.07
Std. Dev. = 10.11
N = 363
Frequency
0
5
10
15
20
70
80
90
100
Meses desde el contrato


Histogram
for catlab= Seguridad
Mean = 81.56
Std. Dev. = 8.487
N = 27
Frequency
0
2
4
6
70
80
90
100
Meses desde el contrato



Stem-and-Leaf Plots

Meses desde el contrato Stem-and-Leaf Plot for
catlab= Administrativo

Frequency	Stem &	Leaf
3.00	6 .	333
14.00	6 .	44444455555555
28.00	6 .	6666666666666666777777777777
23.00	6 .	88888899999999999999999
14.00	7 .	00000000000011
23.00	7 .	22222222222222333333333
10.00	7 .	4444455555
19.00	7 .	6666666677777777777
22.00	7 .	8888888888888999999999
30.00	8 .	000000000001111111111111111111
27.00	8 .	222222222222222333333333333
20.00	8 .	44444444444455555555
19.00	8 .	6666666666777777777
16.00	8 .	8888888888889999
19.00	9 .	0000000000001111111
26.00	9 .	22222222222333333333333333

```
   16.00        9 .  4444444444455555
   21.00        9 .  666666666667777777777
   13.00        9 .  8888888888888

 Stem width:  10
 Each leaf:        1 case(s)
```

Meses desde el contrato Stem-and-Leaf Plot for
catlab= Seguridad

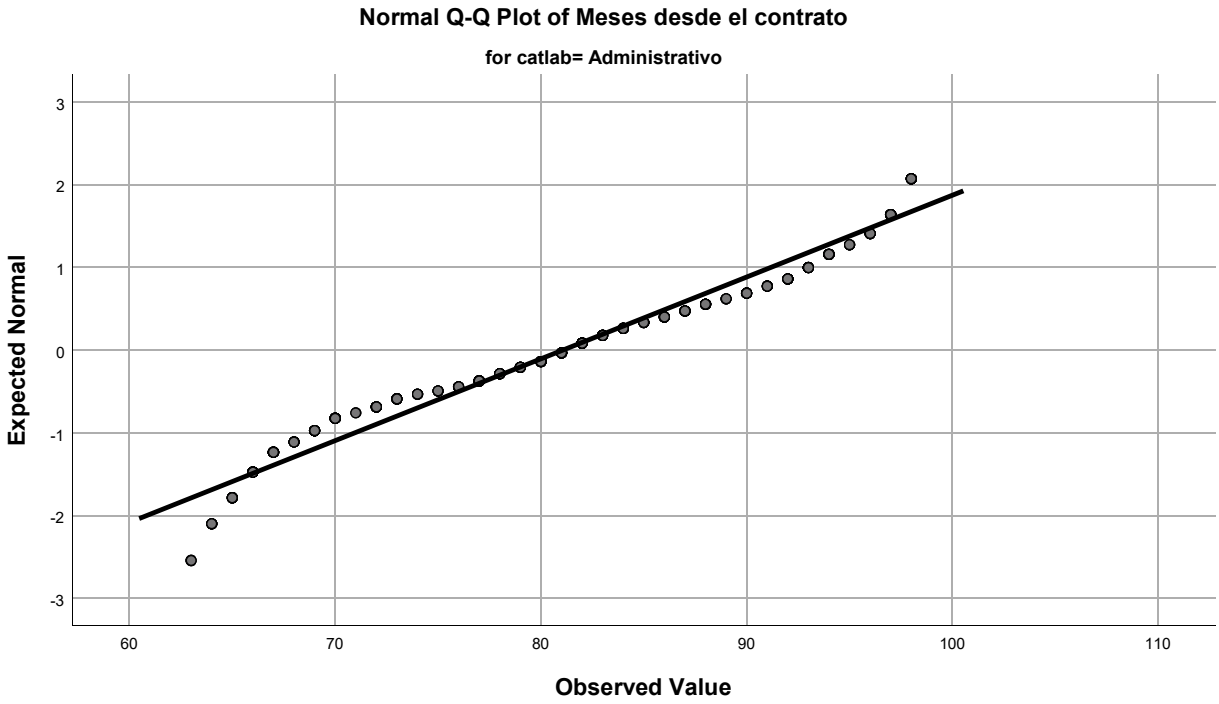
```
 Frequency    Stem &  Leaf

     4.00        6 .  7899
     2.00        7 .  34
     7.00        7 .  6788899
     4.00        8 .  0334
     2.00        8 .  57
     7.00        9 .  0011224
     1.00        9 .  5

 Stem width:  10
 Each leaf:        1 case(s)
```

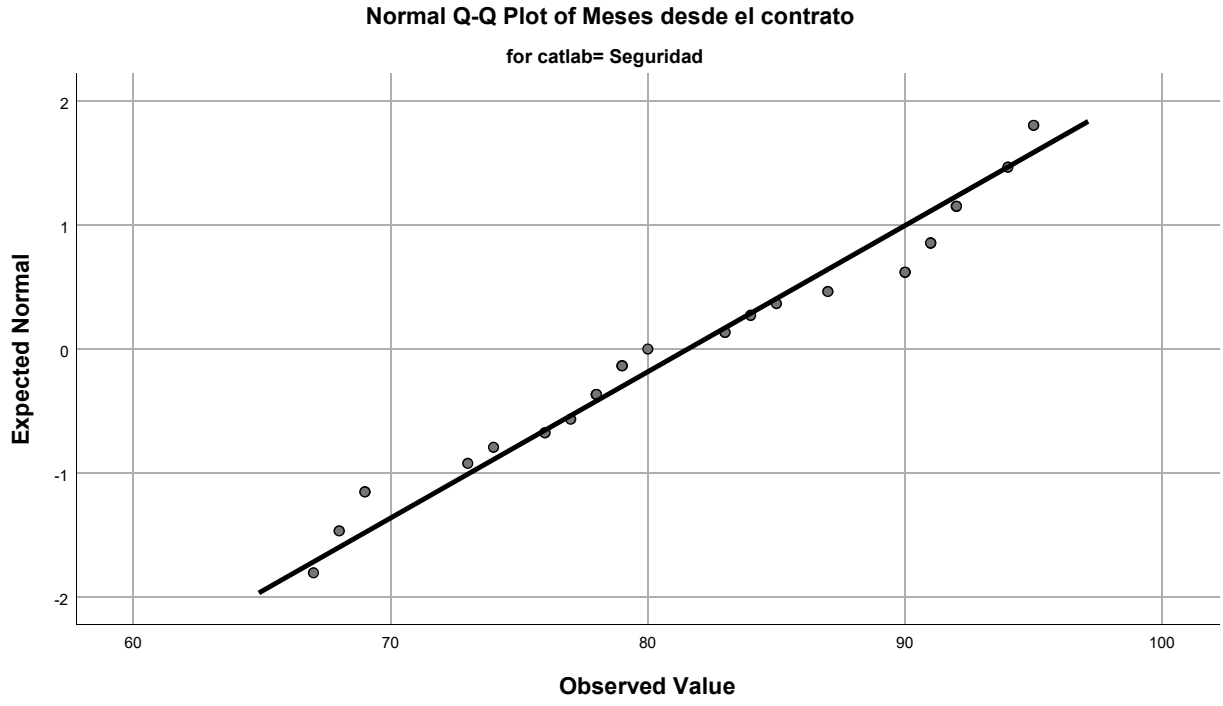
Meses desde el contrato Stem-and-Leaf Plot for
catlab= Directivo

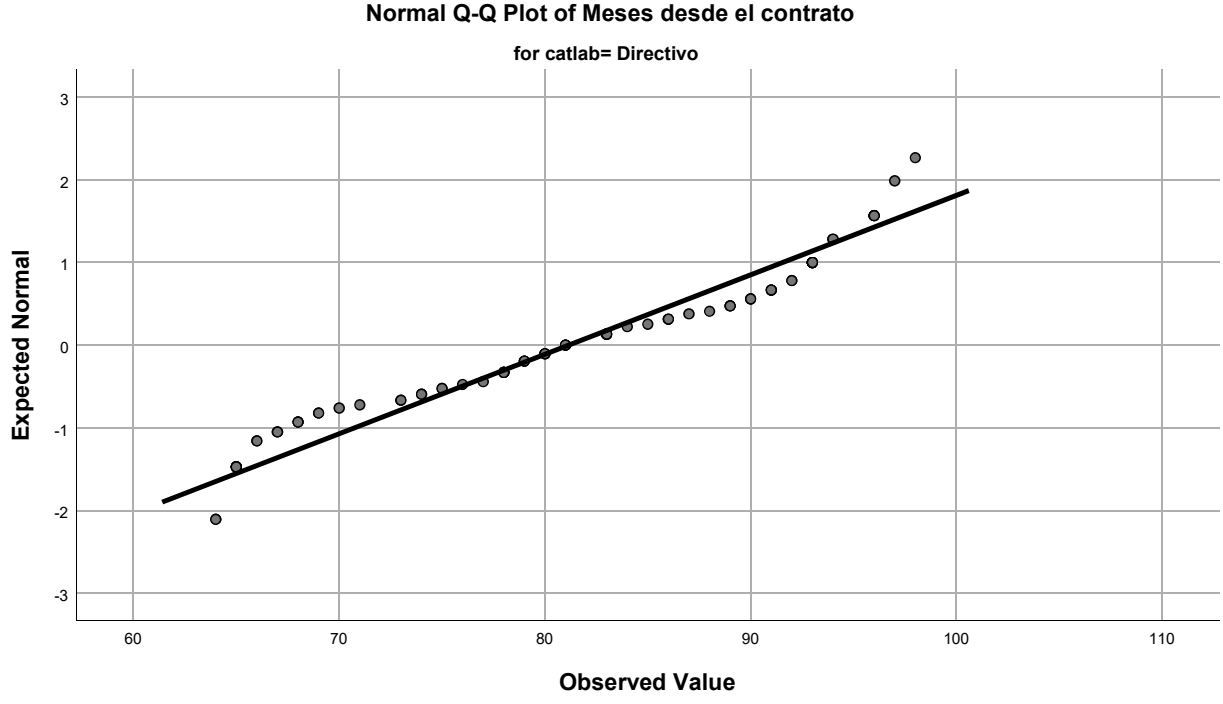
```
 Frequency    Stem &  Leaf

     2.00        6 .  44
    16.00        6 .  5555555667788899
     6.00        7 .  013344
    13.00        7 .  5567888888999
    13.00        8 .  0001111333334
     9.00        8 .  566678999
    18.00        9 .  001111223333333344
     7.00        9 .  6666678

 Stem width:  10
```

Each leaf: 1 case(s)

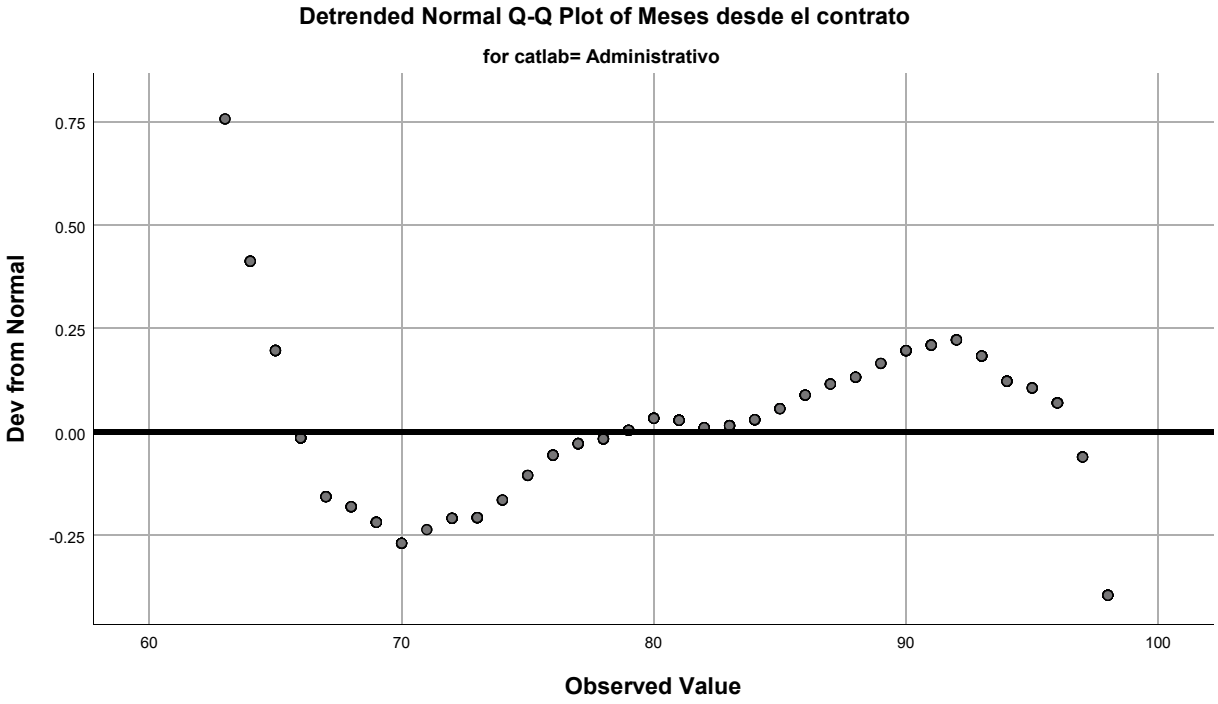
Normal Q-Q Plots

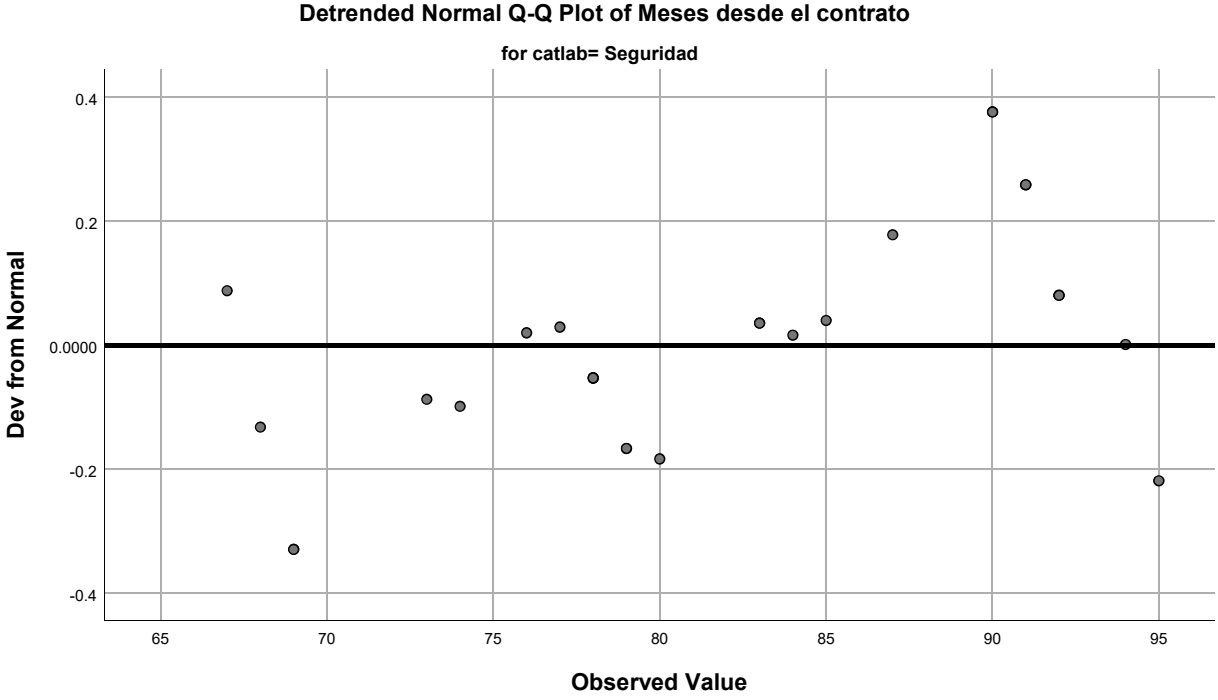


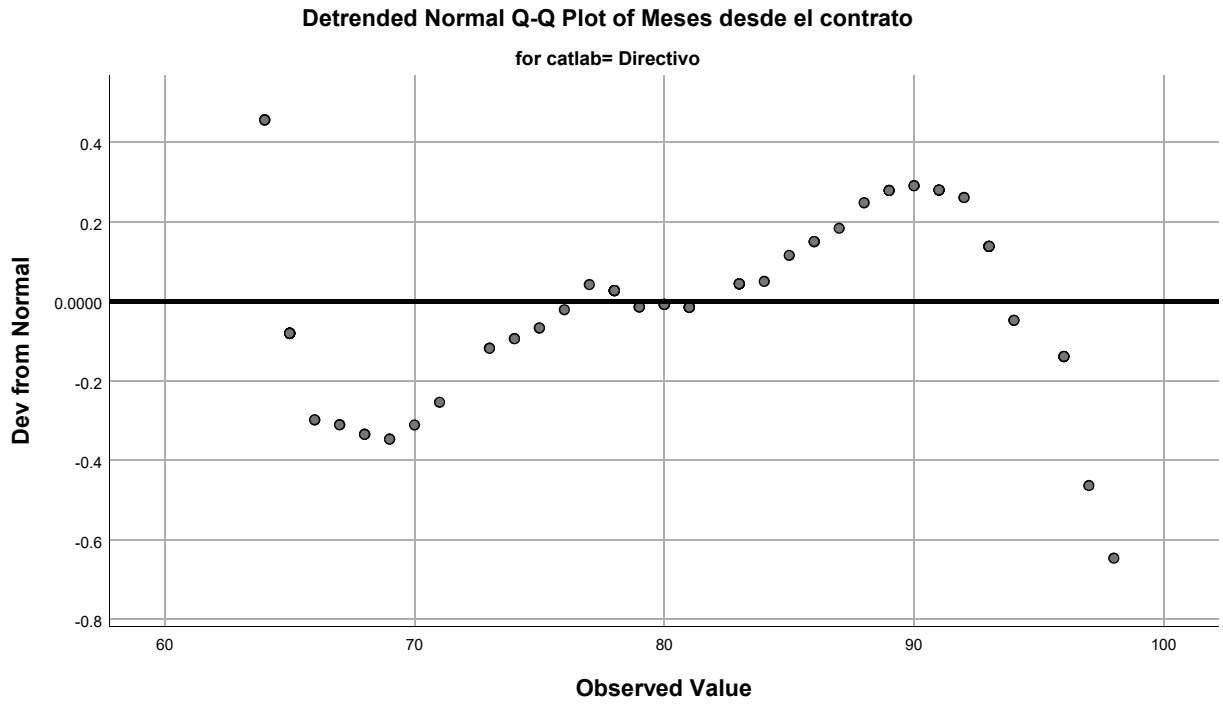


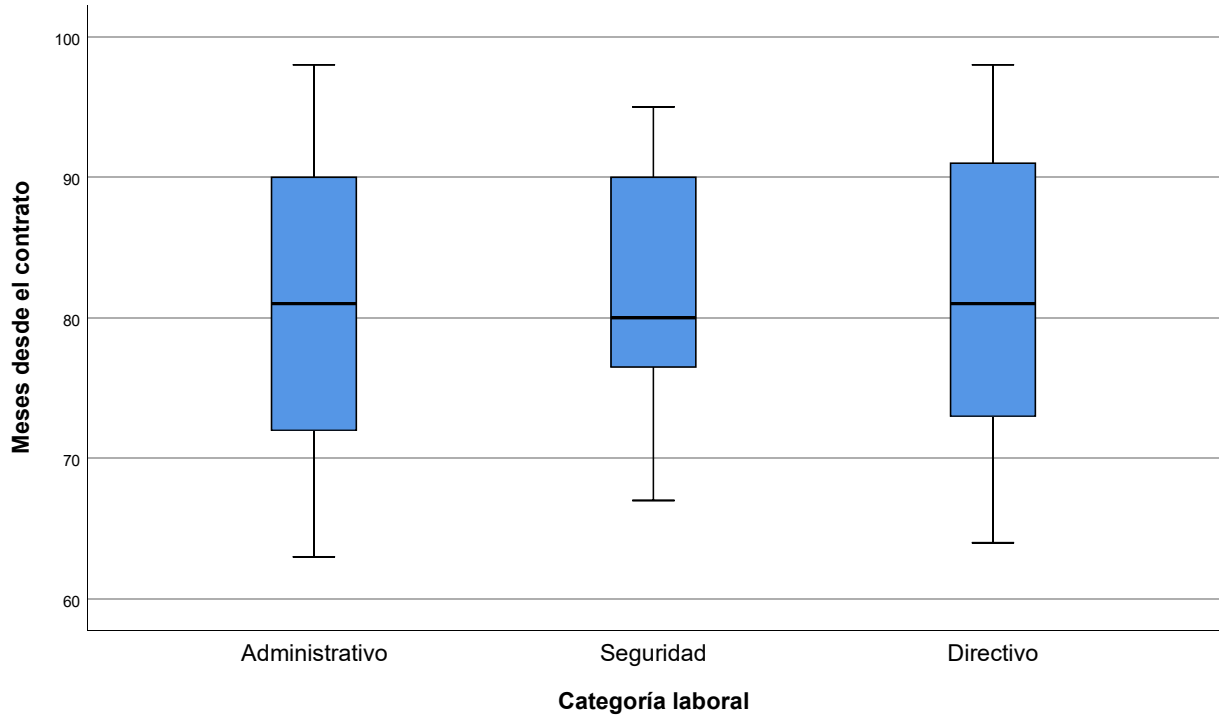


Detrended Normal Q-Q Plots


Detrended Normal Q-Q Plot of Meses desde el contrato
for catlab= Administrativo
Dev from Normal
0.75
0.50
0.25
0.00
-0.25
60
70
80
90
100
Observed Value


Detrended Normal Q-Q Plot of Meses desde el contrato
for catlab= Seguridad
Dev from Normal
0.4
0.2
0.0000
-0.2
-0.4
65
70
75
80
85
90
95
Observed Value





'Ejercicio 2: Cubos OLAP con SPSS'

>Error # 1. Command name: 'Ejercicio

```
>The first word in the line is not recognized as an SPSS Statistics command.
>Execution of this command stops.
'Data fuente'.
GET
  FILE='C:\Users\santi\OneDrive\Desktop\Entornos de Computación Estadística\Ac
tividad 2\Ficheros datos2 SPSS\EncuestaUSA 1991.sav'.

>Warning # 67.  Command name: GET FILE
>The document is already in use by another user or process.  If you make
>changes to the document they may overwrite changes made by others or your
>changes may be overwritten by others.
>File opened C:\Users\santi\OneDrive\Desktop\Entornos de Computación Estadísti
ca\Actividad 2\Ficheros datos2 SPSS\EncuestaUSA 1991
DATASET NAME DataSet2 WINDOW=FRONT.
```

Dataset Name

Warnings

The active dataset will replace the existing dataset named DataSet2.

```
'1. Construccion de los cubos'.

>Error # 1.  Command name: '1
>The first word in the line is not recognized as an SPSS Statistics command.
>Execution of this command stops.
DATASET ACTIVATE DataSet2.
OLAP CUBES
    edad educ educpad educesp by sexo catocu80 obedecer trabajar
    /CELLS=SUM NPCT.
```

OLAP Cubes

[DataSet2]

Case Processing Summary

	Cases					
	Included		Excluded		Total	
	N	Percent	N	Percent	N	Percent
Edad del encuestado * Sexo del encuestado	1514	99.8%	3	0.2%	1517	100.0%
Número de años de escolarización * Sexo del encuestado	1510	99.5%	7	0.5%	1517	100.0%
Número de años de escolarización del padre * Sexo del encuestado	1069	70.5%	448	29.5%	1517	100.0%
Número de años de escolarización del cónyugue * Sexo del encuestado	790	52.1%	727	47.9%	1517	100.0%
Edad del encuestado * Categoría ocupacional	1416	93.3%	101	6.7%	1517	100.0%
Número de años de escolarización * Categoría ocupacional	1415	93.3%	102	6.7%	1517	100.0%
Número de años de escolarización del padre * Categoría ocupacional	1009	66.5%	508	33.5%	1517	100.0%
Número de años de escolarización del cónyugue * Categoría ocupacional	759	50.0%	758	50.0%	1517	100.0%
Edad del encuestado * Obedecer es	981	64.7%	536	35.3%	1517	100.0%
Número de años de escolarización * Obedecer es	978	64.5%	539	35.5%	1517	100.0%
Número de años de escolarización del padre * Obedecer es	686	45.2%	831	54.8%	1517	100.0%
Número de años de escolarización del cónyugue * Obedecer es	532	35.1%	985	64.9%	1517	100.0%
Edad del encuestado * Trabajar duro es	981	64.7%	536	35.3%	1517	100.0%

Case Processing Summary

	Cases					
	Included		Excluded		Total	
	N	Percent	N	Percent	N	Percent
Número de años de escolarización * Trabajar duro es	978	64.5%	539	35.5%	1517	100.0%
Número de años de escolarización del padre * Trabajar duro es	686	45.2%	831	54.8%	1517	100.0%
Número de años de escolarización del cónyugue * Trabajar duro es	532	35.1%	985	64.9%	1517	100.0%

Edad del encuestado Número de años de escolarización Número de años de escolarización del padre Número de años de escolarización del cónyugue by Sexo del encuestado

Sexo del encuestado: Total

	Sum	% of Total N
Edad del encuestado	69078	100.0%
Número de años de escolarización	19455	100.0%
Número de años de escolarización del padre	11632	100.0%
Número de años de escolarización del cónyugue	10184	100.0%

Edad del encuestado Número de años de escolarización Número de años de escolarización del padre Número de años de escolarización del cónyugue by Categoría ocupacional

Categoría ocupacional: Total

	Sum	% of Total N
Edad del encuestado	64840	100.0%
Número de años de escolarización	18423	100.0%
Número de años de escolarización del padre	11010	100.0%
Número de años de escolarización del cónyugue	9862	100.0%

Edad del encuestado Número de años de escolarización Número de años de escolarización del padre Número de años de escolarización del cónyugue by Obedecer es

Obedecer es: Total

	Sum	% of Total N
Edad del encuestado	44439	100.0%
Número de años de escolarización	12637	100.0%
Número de años de escolarización del padre	7496	100.0%
Número de años de escolarización del cónyugue	6909	100.0%

Edad del encuestado Número de años de escolarización Número de años de escolarización del padre Número de años de escolarización del cónyugue by Trabajar duro es

Trabajar duro es: Total

	Sum	% of Total N
Edad del encuestado	44439	100.0%
Número de años de escolarización	12637	100.0%
Número de años de escolarización del padre	7496	100.0%
Número de años de escolarización del cónyugue	6909	100.0%

```
'Ejercicio 3: Regresion lineal con SPSS'.

>Error # 1.  Command name: 'Ejercicio
>The first word in the line is not recognized as an SPSS Statistics command.
>Execution of this command stops.
'Data fuente'.

>Error # 1.  Command name: 'Data
>The first word in the line is not recognized as an SPSS Statistics command.
>Execution of this command stops.
 GET
  FILE='C:\Users\santi\OneDrive\Desktop\Entornos de Computación Estadística\Ac
tividad 2\Ficheros datos2 SPSS\Hatco.sav'.

>Warning # 67.  Command name: GET FILE
>The document is already in use by another user or process.  If you make
>changes to the document they may overwrite changes made by others or your
>changes may be overwritten by others.
>File opened C:\Users\santi\OneDrive\Desktop\Entornos de Computación Estadísti
ca\Actividad 2\Ficheros datos2 SPSS\Hatco.sav
DATASET NAME DataSet3 WINDOW=FRONT.
```

Dataset Name

Warnings

The active dataset will replace the existing dataset named DataSet3.

```
'1. Analisis de Regresion'.

>Error # 1.  Command name: '1
>The first word in the line is not recognized as an SPSS Statistics command.
>Execution of this command stops.
DATASET ACTIVATE DataSet3.
REGRESSION
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS R ANOVA
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT y
  /METHOD=ENTER x1 x2 x3 x4 x5 x6 x7 x8.
```

Regression

```
[DataSet3] C:\Users\santi\OneDrive\Desktop\Entornos de Computación Estadística
\Actividad 2\Ficheros datos2 SPSS\Hatco.sav
```

Variables Entered/Removed[a]

Model	Variables Entered	Variables Removed	Method
1	x8, x4, x5, x3, x7, x6, x2, x1[b]	.	Enter

a. Dependent Variable: y

b. All requested variables entered.

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.896[a]	.802	.785	4.1680

a. Predictors: (Constant), x8, x4, x5, x3, x7, x6, x2, x1

ANOVA[a]

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	6418.138	8	802.267	46.181	.000[b]
	Residual	1580.862	91	17.372		
	Total	7999.000	99			

a. Dependent Variable: y

b. Predictors: (Constant), x8, x4, x5, x3, x7, x6, x2, x1

Coefficients[a]

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-14.804	4.866		-3.043	.003
	x1	.689	1.908	.101	.361	.719
	x2	-.405	1.971	-.054	-.205	.838
	x3	3.990	.425	.615	9.385	.000
	x4	-.112	.629	-.014	-.178	.859
	x5	7.842	3.695	.655	2.123	.036
	x6	1.748	.902	.150	1.938	.056
	x7	-.159	.392	-.028	-.406	.686
	x8	5.281	1.486	.289	3.554	.001

a. Dependent Variable: y