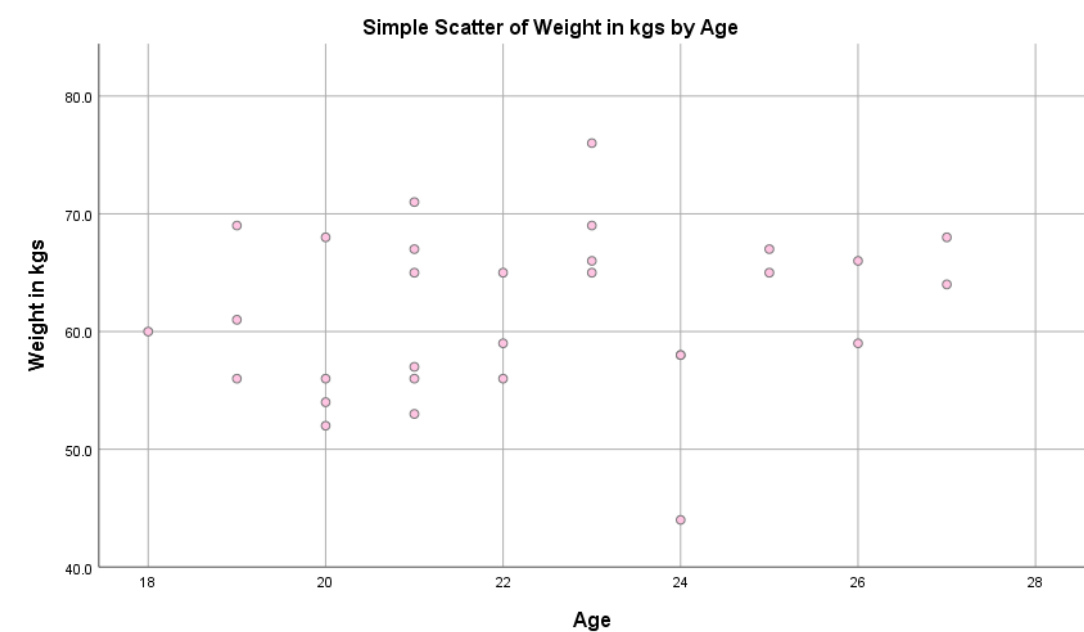
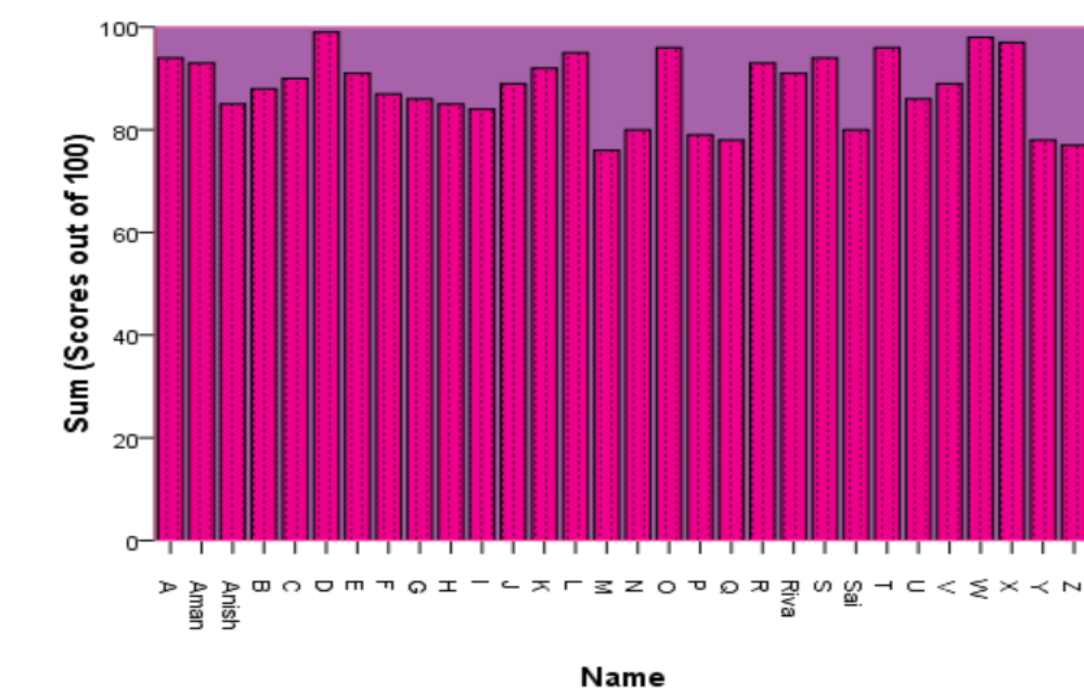


# PRACTICAL 1 SPSS

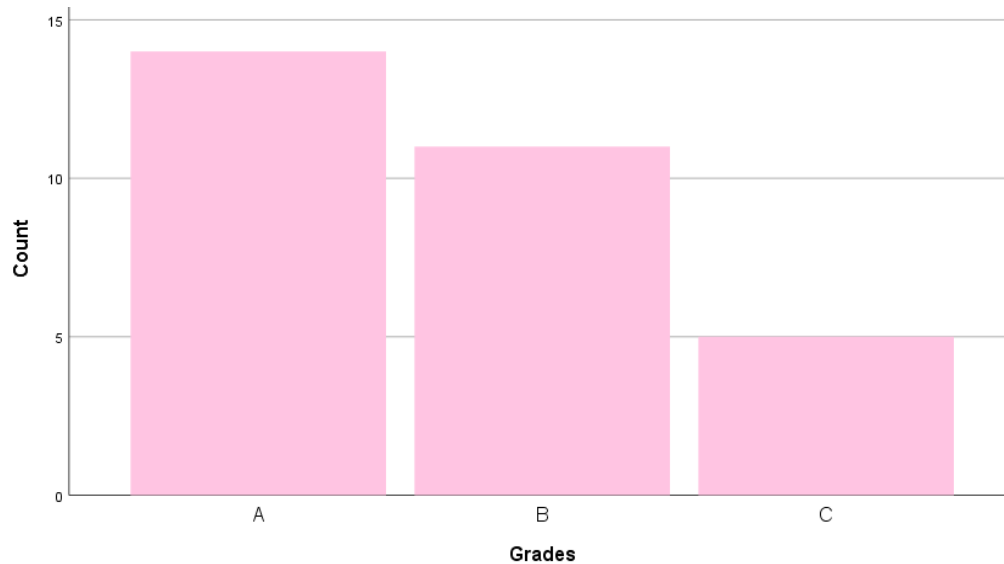
## Q1) AGE VS WEIGHT Scatterplot



## NAME VS SCORES Bar Chart



## GRADES Bar Chart



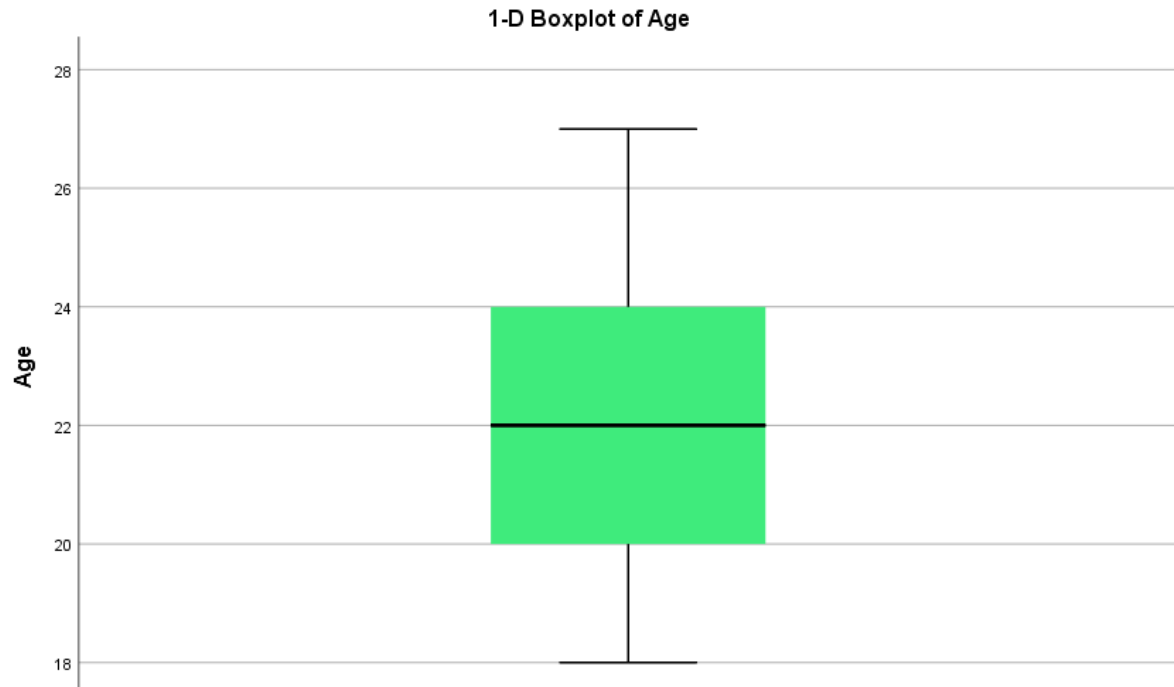
## HEIGHTS Histogram



## WEIGHTS Histogram with distribution curve



## AGE Boxplot



## GRADES VS GENDER AND REGION Crosstab

		Gender							
		Female				Male			
		Region				Region			
		East	North	South	West	East	North	South	West
		Count	Count	Count	Count	Count	Count	Count	Count
Grades	A	1	1	4	3	1	1	1	2
	B	1	0	1	1	2	4	0	2
	C	0	0	1	1	2	0	1	0

## GRADES VS REGION Crosstab

### Case Processing Summary

	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
Grades * Region	31	100.0%	0	0.0%	31	100.0%

### Grades \* Region Crosstabulation

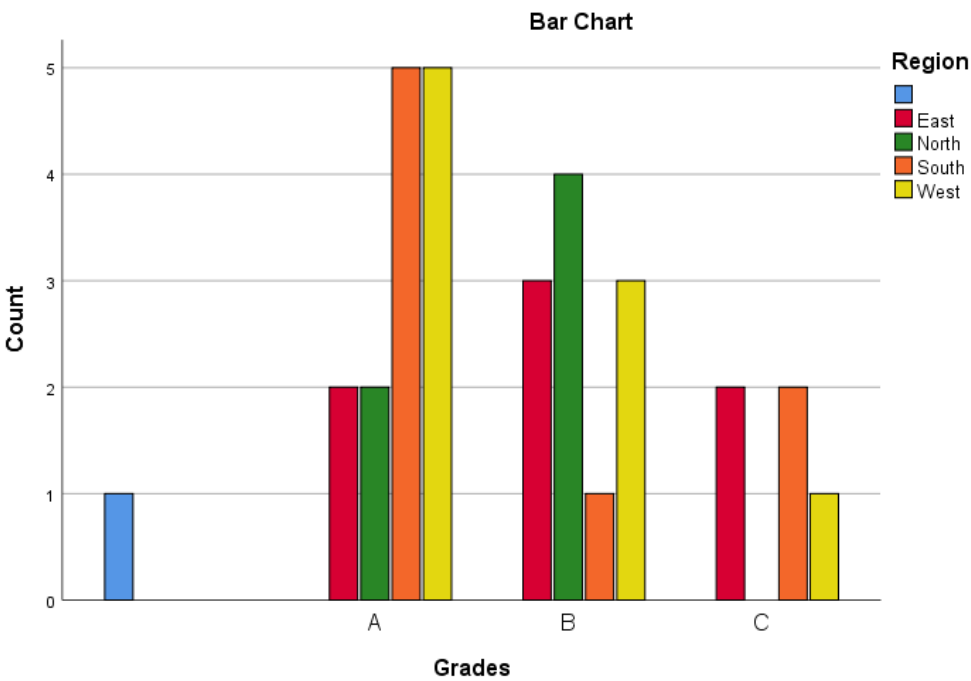
Count

		Region				Total
		East	North	South	West	
Grades		1	0	0	0	1
	A	0	2	2	5	14
	B	0	3	4	3	11
	C	0	2	0	2	5
Total		1	7	6	9	31

### Chi-Square Tests

	Value	df	Asymptotic Significance (2- sided)
Pearson Chi-Square	37.453 <sup>a</sup>	12	.000
Likelihood Ratio	16.153	12	.184
N of Valid Cases	31		

a. 20 cells (100.0%) have expected count less than 5. The minimum expected count is .03.



**Frequencies for Catergorical variables**

		Statistics			
		Name	Gender	Region	Grades
N	Valid	31	31	31	31
	Missing	0	0	0	0

## Frequency Table

		Name			Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid		1	3.2	3.2	3.2
	A	1	3.2	3.2	6.5
	Aman	1	3.2	3.2	9.7
	Anish	1	3.2	3.2	12.9
	B	1	3.2	3.2	16.1
	C	1	3.2	3.2	19.4
	D	1	3.2	3.2	22.6
	E	1	3.2	3.2	25.8
	F	1	3.2	3.2	29.0
	G	1	3.2	3.2	32.3
	H	1	3.2	3.2	35.5
	I	1	3.2	3.2	38.7
	J	1	3.2	3.2	41.9
	K	1	3.2	3.2	45.2
	L	1	3.2	3.2	48.4
	M	1	3.2	3.2	51.6
	N	1	3.2	3.2	54.8
	O	1	3.2	3.2	58.1
	P	1	3.2	3.2	61.3
	Q	1	3.2	3.2	64.5
	R	1	3.2	3.2	67.7
	Riva	1	3.2	3.2	71.0
	S	1	3.2	3.2	74.2
	Sai	1	3.2	3.2	77.4
	T	1	3.2	3.2	80.6
	U	1	3.2	3.2	83.9
	V	1	3.2	3.2	87.1
	W	1	3.2	3.2	90.3
	X	1	3.2	3.2	93.5
	Y	1	3.2	3.2	96.8
	Z	1	3.2	3.2	100.0
	Total	31	100.0	100.0	

		Gender			
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		1	3.2	3.2	3.2
	Female	14	45.2	45.2	48.4
	Male	16	51.6	51.6	100.0
	Total	31	100.0	100.0	

		Region			
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		1	3.2	3.2	3.2
	East	7	22.6	22.6	25.8
	North	6	19.4	19.4	45.2
	South	8	25.8	25.8	71.0
	West	9	29.0	29.0	100.0
	Total	31	100.0	100.0	

		Grades			
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		1	3.2	3.2	3.2
	A	14	45.2	45.2	48.4
	B	11	35.5	35.5	83.9
	C	5	16.1	16.1	100.0
	Total	31	100.0	100.0	

## **Descriptives for quantitative variables**

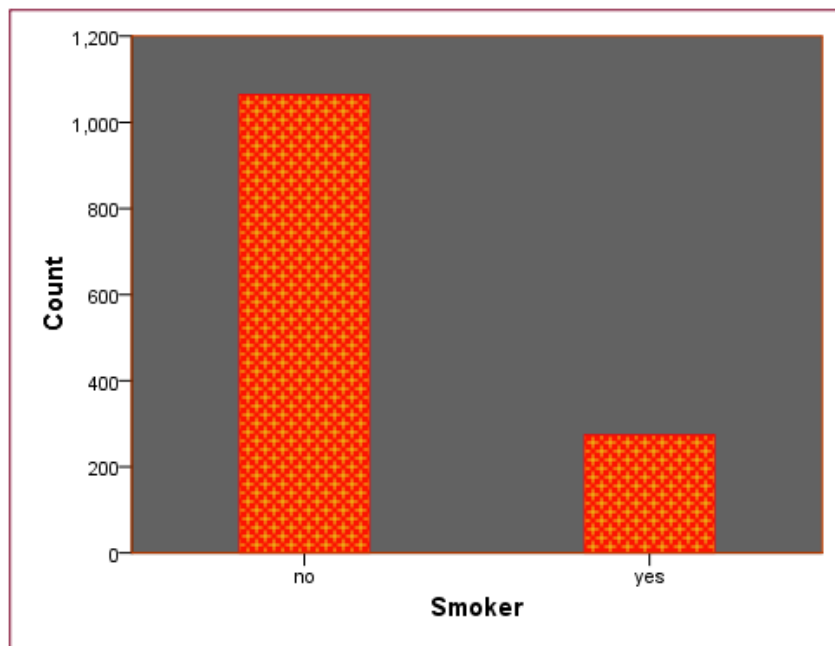
Descriptive Statistics					
	N	Minimum	Maximum	Mean	Variance
Age	30	18	27	22.23	6.185
Earn_per_month	30	100.0	300.0	215.500	2604.052
Height in cms	30	153.0	170.0	161.133	18.120
Scores out of 100	30	76	99	88.20	46.786
Spend_per_month	30	50.0	200.0	129.333	1227.126
Weight in kgs	30	44.0	76.0	61.667	46.851
Valid N (listwise)	30				

The average age of a student is 22. A student earns on an average approximately 215 per month. The average score of a student is 88.



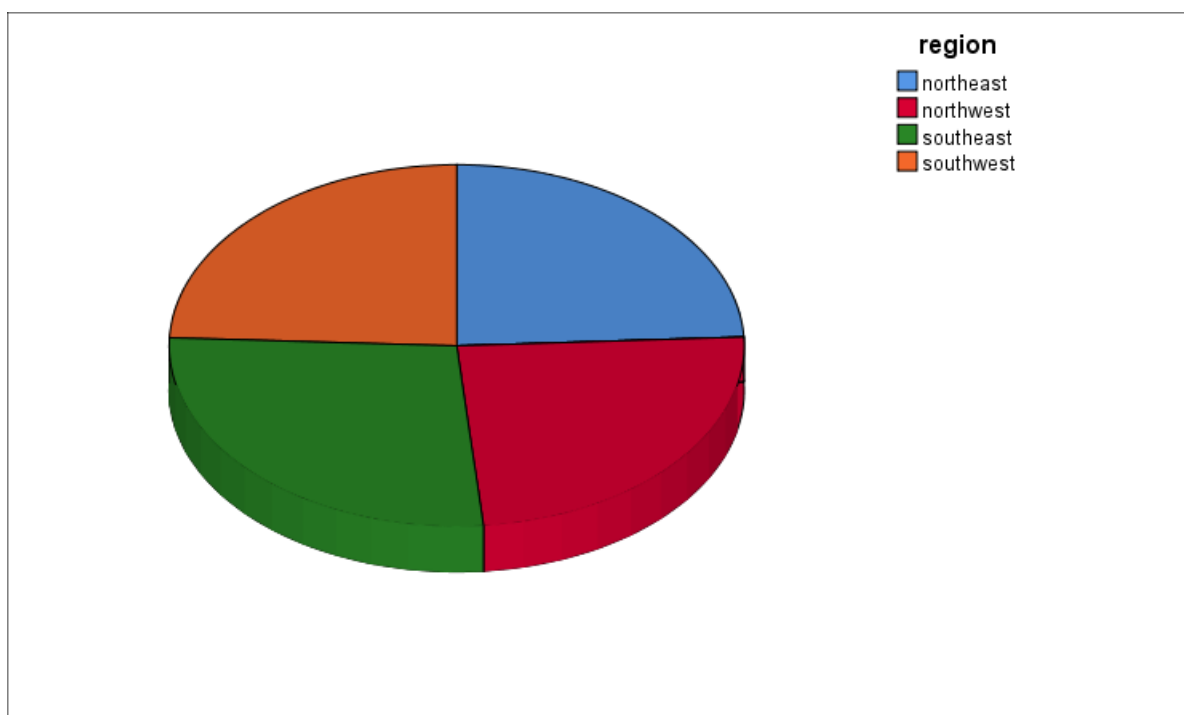
**Q2)**

**a) SMOKERS Bar Chart**

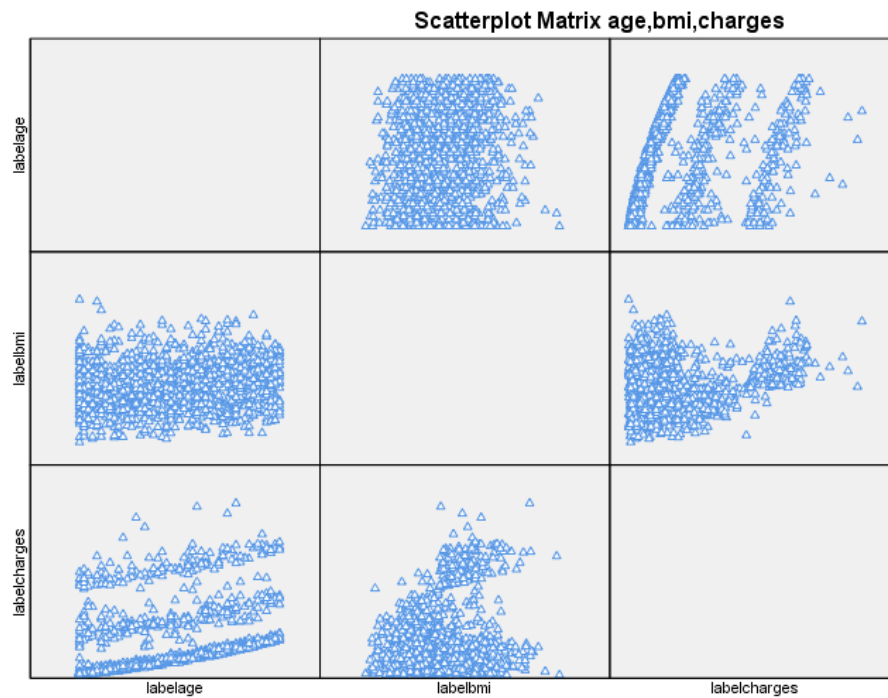


The above bar chart depicts the number of smokers. There are less number of smokers in the sample.

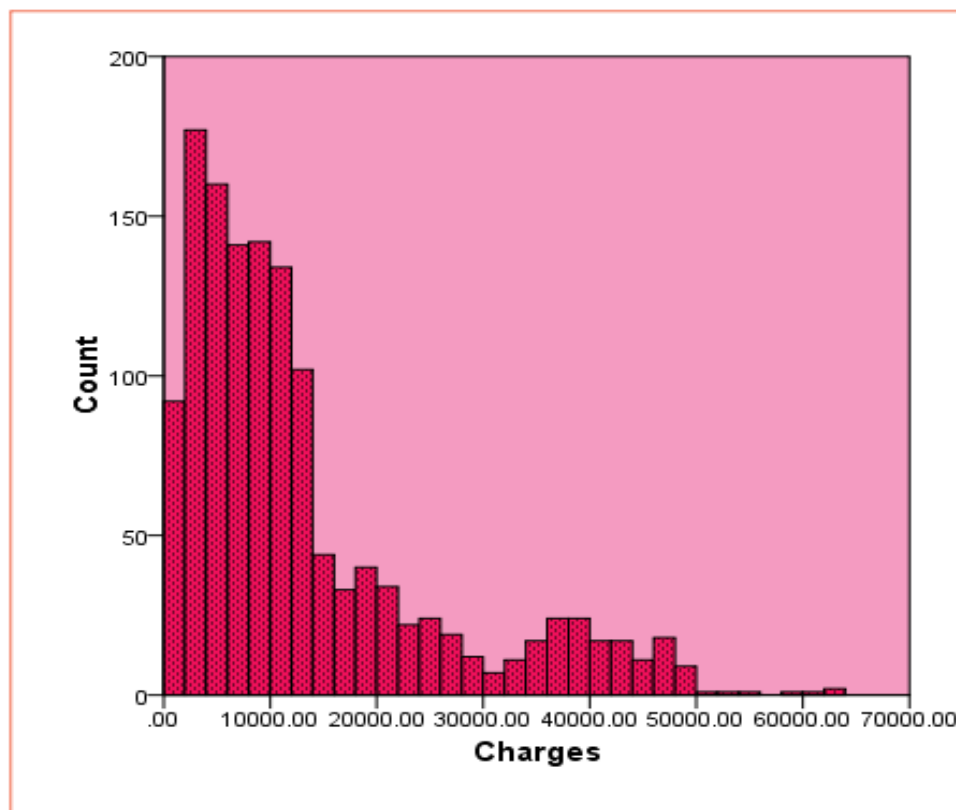
**b) REGION Pie Chart**



### c) SCATTERPLOT MATRIX OF Age, BMI, Charges

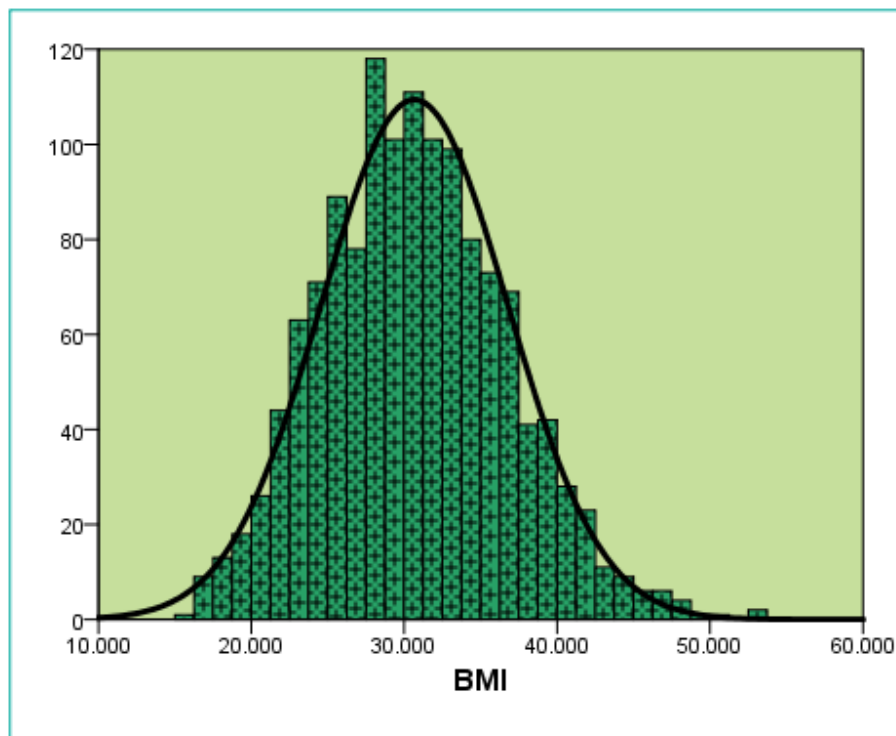


### d) HISTOGRAM of Charges



## HISTOGRAM of BMI

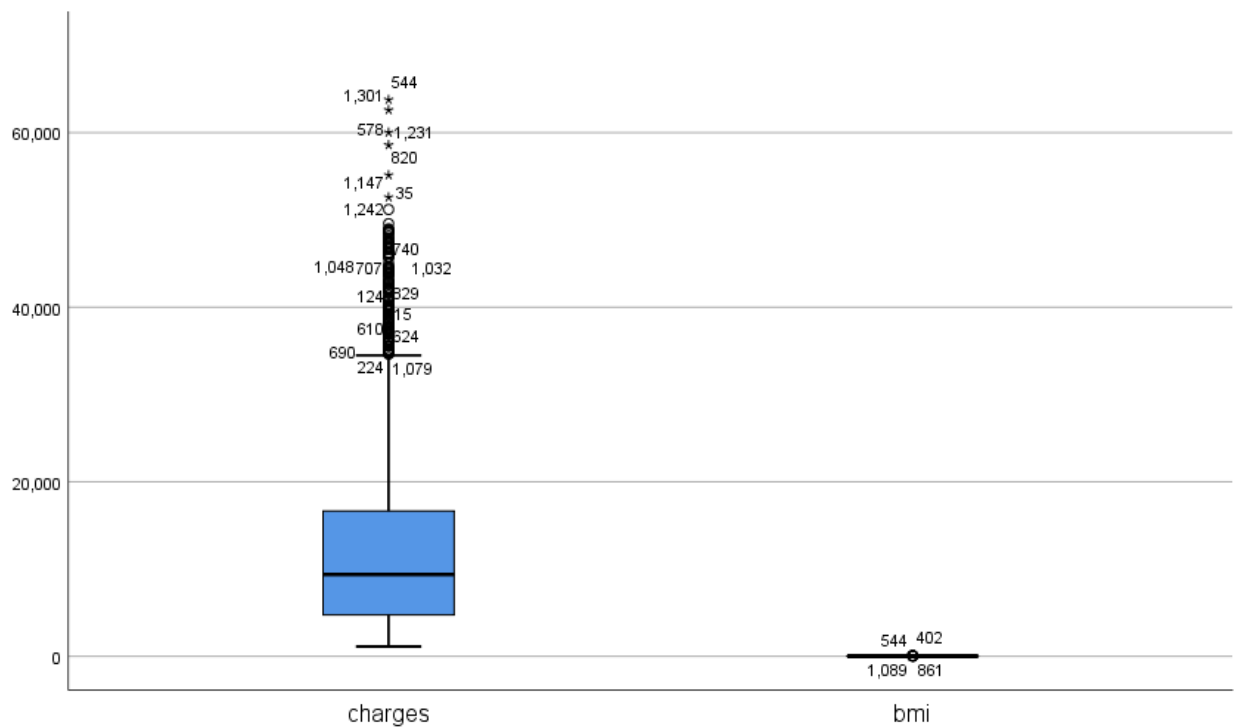
BMI follows a normal distribution



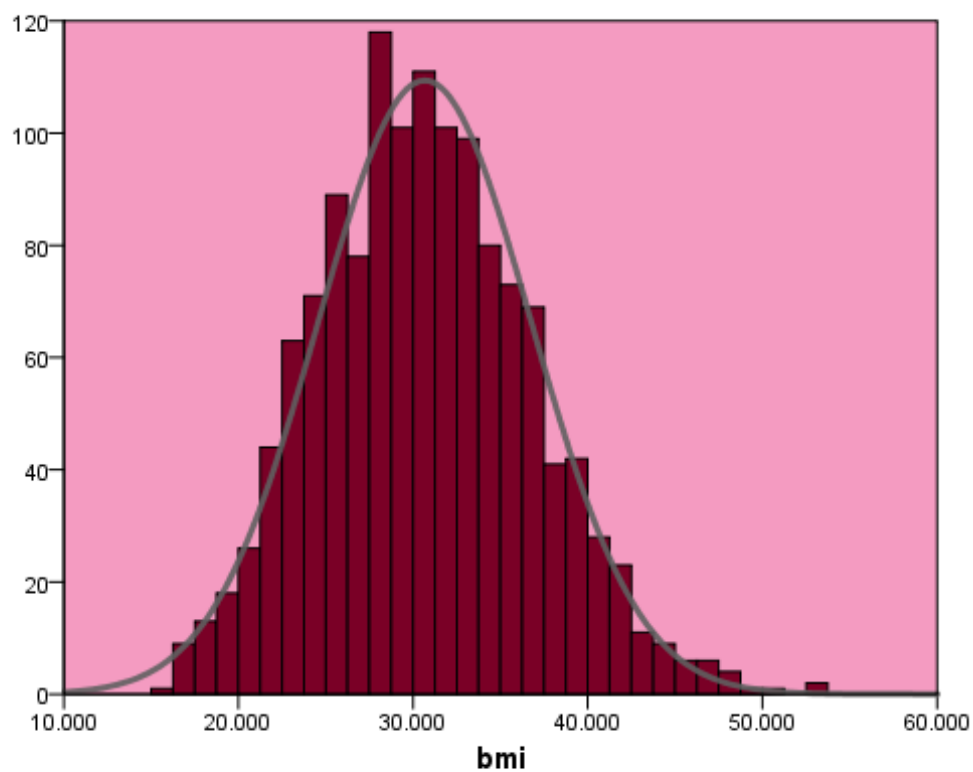
### e) BMI AND CHARGES Boxplot

Case Processing Summary

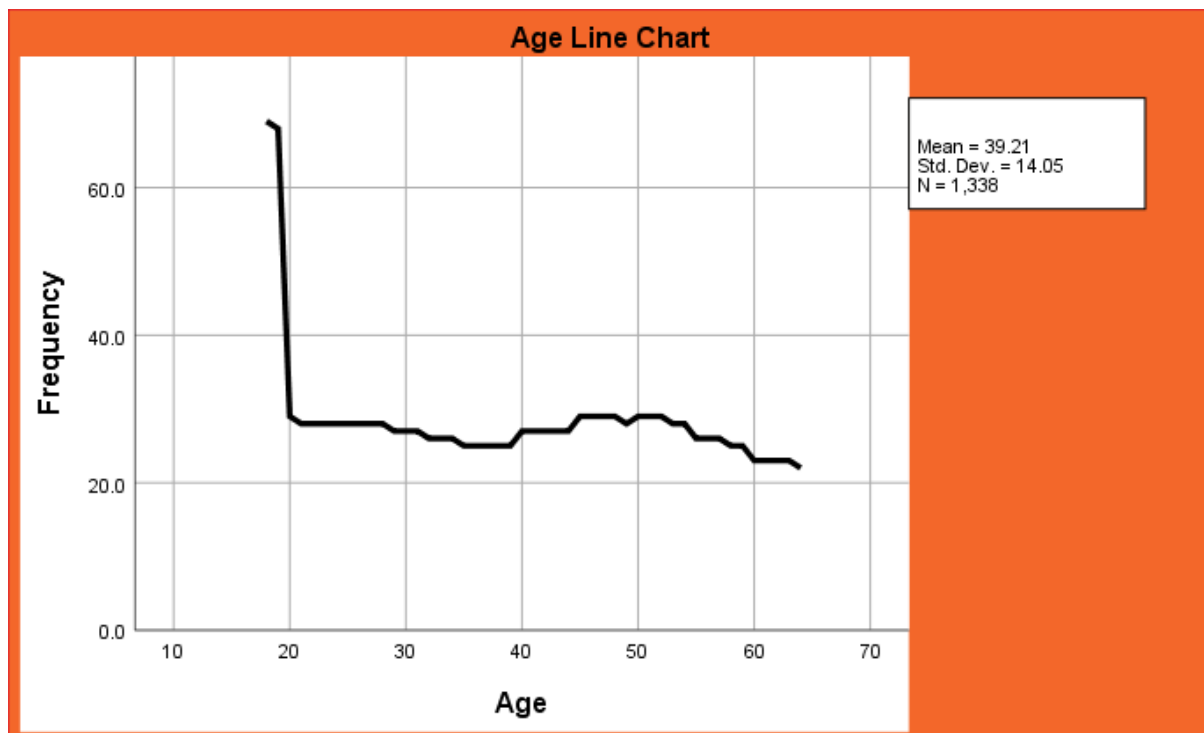
	Valid		Cases Missing		Total	
	N	Percent	N	Percent	N	Percent
charges	1338	100.0%	0	0.0%	1338	100.0%
bmi	1338	100.0%	0	0.0%	1338	100.0%



## f) BMI Histogram



## g) LINE CHART Age



## h) Frequency table of Region and Children

Statistics			
		children	region
N	Valid	1338	1338
	Missing	0	0

### Frequency Table

		children			Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	0	574	42.9	42.9	42.9
	1	324	24.2	24.2	67.1
	2	240	17.9	17.9	85.1
	3	157	11.7	11.7	96.8
	4	25	1.9	1.9	98.7
	5	18	1.3	1.3	100.0
	Total	1338	100.0	100.0	

		region			
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	northeast	324	24.2	24.2	24.2
	northwest	325	24.3	24.3	48.5
	southeast	364	27.2	27.2	75.7
	southwest	325	24.3	24.3	100.0
	Total	1338	100.0	100.0	

## i) Descriptives statistics for Age, BMI and Charges

Descriptive Statistics					
	N	Minimum	Maximum	Mean	Variance
age	1338	18	64	39.21	197.401
bmi	1338	15.960	53.130	30.66340	37.188
charges	1338	1121.87	63770.43	13270.4223	146652372.153
Valid N (listwise)	1338				

## j) Explore Charges with factor Smoker

smoker

Case Processing Summary							
		Valid		Cases Missing		Total	
smoker		N	Percent	N	Percent	N	Percent
charges	no	1064	100.0%	0	0.0%	1064	100.0%
	yes	274	100.0%	0	0.0%	274	100.0%

### Descriptives

smoker		Statistic	Std. Error
Charges	no	Mean	8434.2683
		95% Confidence Interval for Mean	183.75117
		Lower Bound	8073.7121
		Upper Bound	8794.8245
		5% Trimmed Mean	7811.0211
		Median	7345.4053
		Variance	35925420.496
		Std. Deviation	5993.78182
		Minimum	1121.87
		Maximum	36910.61
		Range	35788.73
		Interquartile Range	7379.69
		Skewness	1.538
		Kurtosis	.075
	yes	Mean	32050.2318
		95% Confidence Interval for Mean	697.25036
		Lower Bound	30677.5609
		Upper Bound	33422.9028
		5% Trimmed Mean	31820.4234
		Median	34456.3485
		Variance	133207311.206
		Std. Deviation	11541.54718
		Minimum	12829.46
		Maximum	63770.43
		Range	50940.97
		Interquartile Range	20283.24
		Skewness	.128
		Kurtosis	.147
			.293

## Stem-and-Leaf Plots

Frequency	Stem &	Leaf
92.00	1 .	111112222556666666666667777777777888888999999&
99.00	2 .	000111111111222222233334444445556667777778888899
78.00	3 .	00011122222333344455555677788899999
90.00	4 .	000111222333344444455555666677777788888999
70.00	5 .	000111222223333344444566677899999
73.00	6 .	0011111222333334444555666677778899
68.00	7 .	00111111222233334444556666777799&
78.00	8 .	000011222223334445555556666778889999
64.00	9 .	011122223334445556667778888899
60.00	10 .	001112233444555667777889999
74.00	11 .	00001122233333444555566777888888999
56.00	12 .	0011222233444556666789999
43.00	13 .	001122344446788899&
28.00	14 .	001223334449&
7.00	15 .	1&&
5.00	16 .	0&
4.00	17 .	&&
8.00	18 .	89&
6.00	19 .	4&&
8.00	20 .	47&&
5.00	21 .	&&
2.00	22 .	&
46.00	Extremes	(>=22494)

& denotes fractional leaves.

Frequency	Stem &	Leaf
7.00	1 .	2334444
55.00	1 .	
55555666666666677777777777777778888888888899999999999999		
44.00	2 .	00000000111111111111222222333333334444444444
16.00	2 .	5556667777888999
22.00	3 .	0022233333334444444444
51.00	3 .	55555666666666666777777778888888888899999999999999
41.00	4 .	0000000001111111222222222333333344444444
31.00	4 .	55556666666666677777777888888889



```

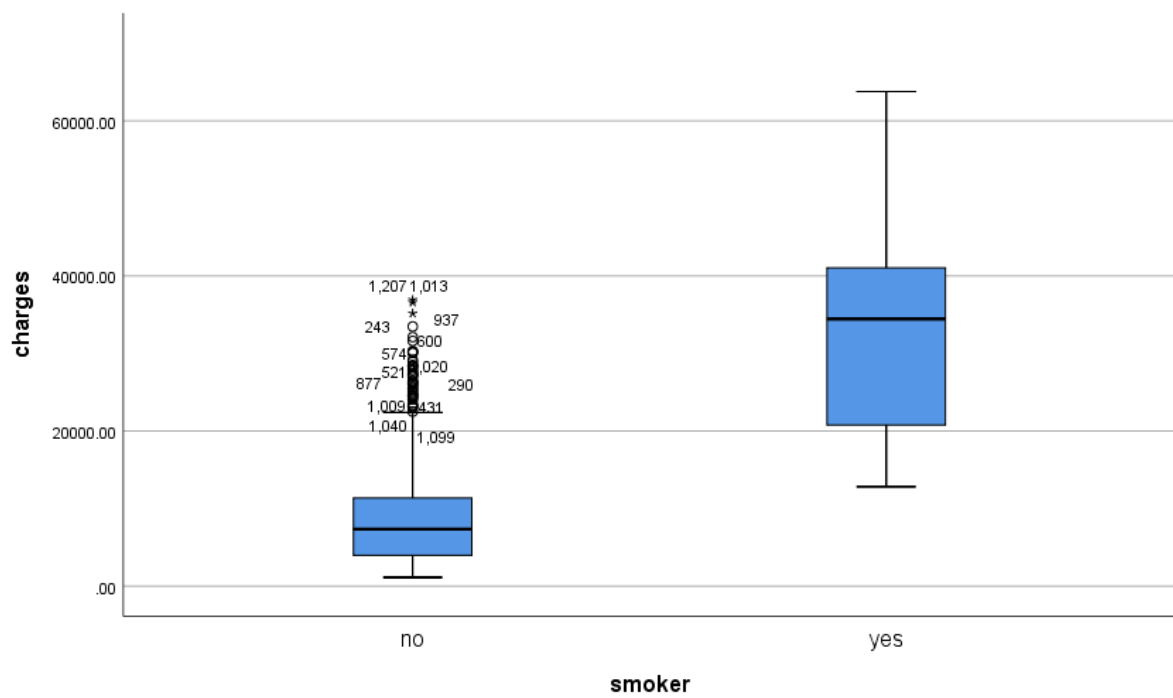
2.00      5 . 12
2.00      5 . 58
3.00      6 . 023

```

```

Stem width: 10000.00
Each leaf:   1 case(s)

```



## k) Explore Charges with factor Sex

sex

Case Processing Summary

		Valid		Cases Missing		Total	
sex		N	Percent	N	Percent	N	Percent
charges	female	662	100.0%	0	0.0%	662	100.0%
	male	676	100.0%	0	0.0%	676	100.0%

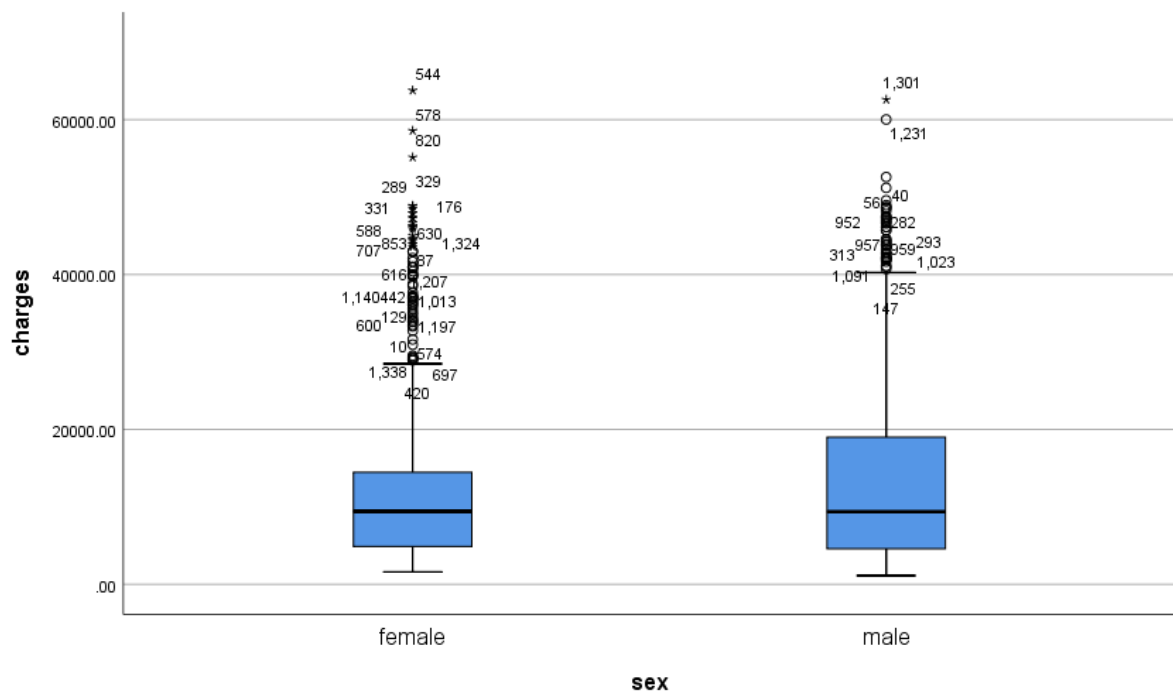
## Descriptives

sex		Statistic		Std. Error
charges	female	Mean	12569.5788	432.52936
		95% Confidence Interval for	Lower Bound	11720.2818
		Mean	Upper Bound	13418.8759
		5% Trimmed Mean	11324.5294	
		Median	9412.9625	
		Variance	123848048.289	
		Std. Deviation	11128.70380	
		Minimum	1607.51	
		Maximum	63770.43	
		Range	62162.92	
		Interquartile Range	9589.84	
		Skewness	1.729	.095
		Kurtosis	2.754	.190
	male	Mean	13956.7512	498.88561
		95% Confidence Interval for	Lower Bound	12977.1969
		Mean	Upper Bound	14936.3054
		5% Trimmed Mean	12811.7448	
		Median	9369.6158	
		Variance	168247513.288	
		Std. Deviation	12971.02592	
		Minimum	1121.87	
		Maximum	62592.87	
		Range	61471.00	
		Interquartile Range	14459.90	
		Skewness	1.336	.094
		Kurtosis	.818	.188

## Stem-and-Leaf Plots

```
Stem width: 10000.00
Each leaf: 2 case(s)
```

```
Stem width: 10000.00
Each leaf: 2 case(s)
```



## I) Explore Charges with factor Region

region

### Case Processing Summary

		Valid		Cases Missing		Total	
region		N	Percent	N	Percent	N	Percent
charges	northeas	324	100.0%	0	0.0%	324	100.0%
	northwes	325	100.0%	0	0.0%	325	100.0%
	southeas	364	100.0%	0	0.0%	364	100.0%
	southwes	325	100.0%	0	0.0%	325	100.0%

## Descriptives

region		Statistic		Std. Error
charges	northeas	Mean	13406.3845	625.32239
		95% Confidence Interval for	Lower Bound	12176.1655
		Mean	Upper Bound	14636.6035
		5% Trimmed Mean	12305.9569	
		Median	10057.6520	
		Variance	126693102.651	
		Std. Deviation	11255.80307	
		Minimum	1694.80	
		Maximum	58571.07	
		Range	56876.28	
		Interquartile Range	11582.85	
		Skewness	1.493	.135
		Kurtosis	1.756	.270
	northwes	Mean	12417.5754	614.17942
		95% Confidence Interval for	Lower Bound	11209.2924
		Mean	Upper Bound	13625.8584
		5% Trimmed Mean	11186.5903	
		Median	8965.7958	
		Variance	122595316.361	
		Std. Deviation	11072.27693	
		Minimum	1621.34	
		Maximum	60021.40	
		Range	58400.06	
		Interquartile Range	10196.84	
		Skewness	1.682	.135
		Kurtosis	2.625	.270
	southeas	Mean	14735.4114	732.28454
		95% Confidence Interval for	Lower Bound	13295.3588
		Mean	Upper Bound	16175.4641
		5% Trimmed Mean	13589.9569	
		Median	9294.1319	
		Variance	195191595.783	
		Std. Deviation	13971.09859	
		Minimum	1121.87	
		Maximum	63770.43	
		Range	62648.55	
		Interquartile Range	15111.19	
		Skewness	1.251	.128
		Kurtosis	.520	.255

southwes	Mean		12346.9374	641.07695
	95% Confidence Interval for	Lower Bound	11085.7385	
	Mean	Upper Bound	13608.1363	
	5% Trimmed Mean		11123.3345	
	Median		8798.5930	
	Variance		133568388.767	
	Std. Deviation		11557.17910	
	Minimum		1241.57	
	Maximum		52590.83	
	Range		51349.26	
	Interquartile Range		8717.98	
	Skewness		1.682	.135
	Kurtosis		2.109	.270

## charges

## Stem-and-Leaf Plots

```
charges Stem-and-Leaf Plot for
region= northeas
```

[illegible]

```
Stem width: 10000.00
Each leaf: 1 case(s)
```

```
charges Stem-and-Leaf Plot for
region= northwes
```

```
Stem width: 10000.00
Each leaf: 1 case(s)
```

Frequency	Stem &	Leaf
105.00	0 .	11111111111111111111222222222222333333333334444444444444
88.00	0 .	55555555556666666677777778888888888889999999
55.00	1 .	00000011111112222222333444
28.00	1 .	6777888899999&
14.00	2 .	012344
13.00	2 .	567777&
6.00	3 .	44&
19.00	3 .	66677889&
10.00	4 .	0012
26.00	Extremes	(>=42211)

```
Stem width: 10000.00
Each leaf: 2 case(s)
```

Frequency	Stem &	Leaf
30.00	0 .	11111111111111111111111111111111
39.00	0 .	22222222222222222222222222222222
39.00	0 .	44444444444444444444444444444444
38.00	0 .	66666666666666666666666666666666
36.00	0 .	88888888888888888888888888888888
40.00	1 .	00000000000000000000000000000000
26.00	1 .	22222222222222222222222222222222
8.00	1 .	444444555

```

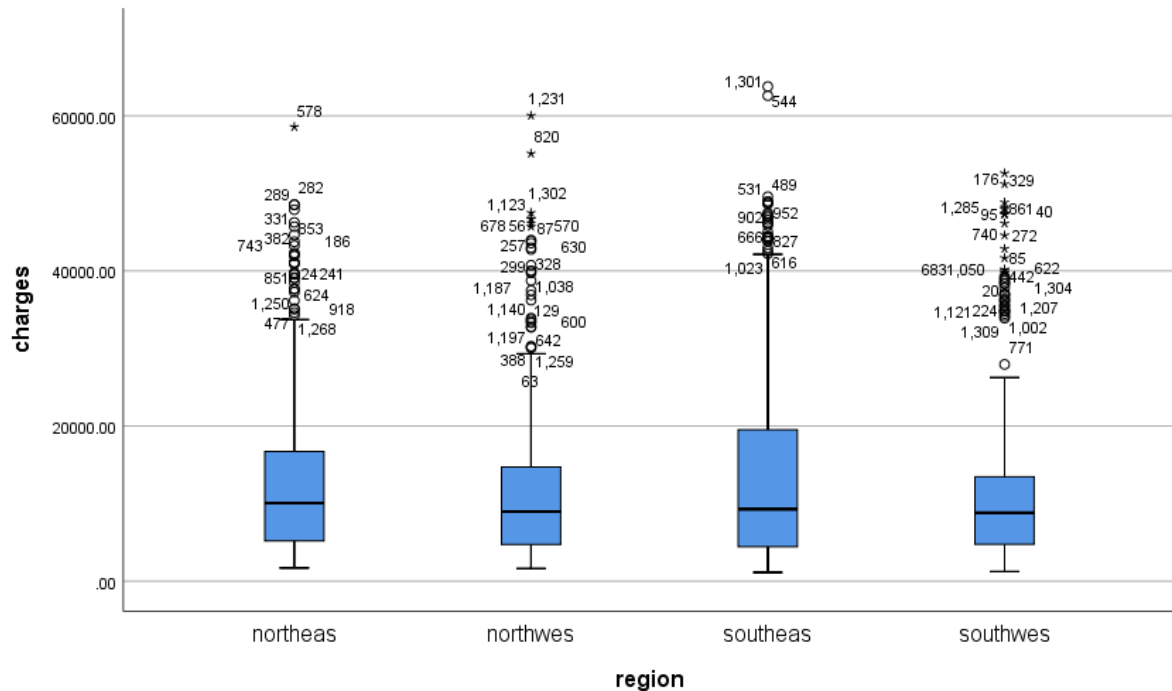
6.00      1 . 666777
7.00      1 . 8889999
7.00      2 . 0000111
5.00      2 . 22333
4.00      2 . 4455
2.00      2 . 66
38.00 Extremes (>=27941)

```

```

Stem width: 10000.00
Each leaf: 1 case(s)

```



## m) Explore Age with factor Sex

sex

### Case Processing Summary

		Valid		Cases Missing		Total	
sex		N	Percent	N	Percent	N	Percent
age	female	662	100.0%	0	0.0%	662	100.0%
	male	676	100.0%	0	0.0%	676	100.0%



## Descriptives

	sex		Statistic	Std. Error	
age	female	Mean	39.50	.546	
		95% Confidence Interval for	Lower Bound	38.43	
		Mean	Upper Bound	40.58	
		5% Trimmed Mean	39.39		
		Median	40.00		
		Variance	197.521		
		Std. Deviation	14.054		
		Minimum	18		
		Maximum	64		
		Range	46		
		Interquartile Range	25		
		Skewness	.029	.095	
		Kurtosis	-1.245	.190	
		male	Mean	38.92	.540
	95% Confidence Interval for		Lower Bound	37.86	
	Mean		Upper Bound	39.98	
	5% Trimmed Mean		38.74		
	Median		39.00		
	Variance		197.406		
	Std. Deviation		14.050		
	Minimum		18		
	Maximum		64		
	Range		46		
	Interquartile Range		25		
	Skewness	.082	.094		
Kurtosis	-1.244	.188			

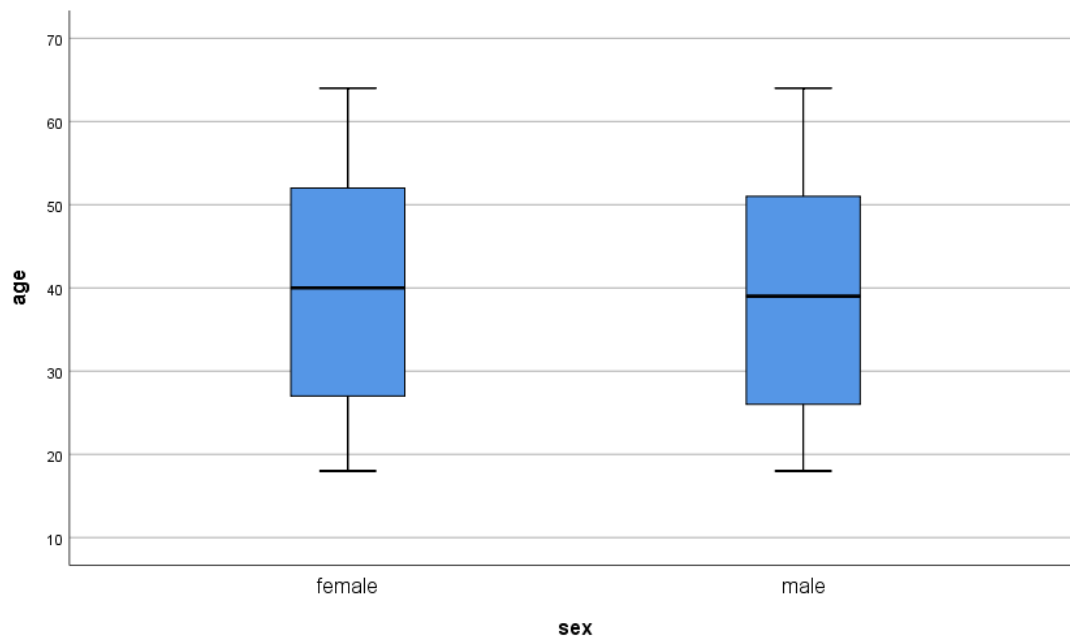
## Age

## Stem-and-Leaf Plots

```
age Stem-and-Leaf Plot for
sex= female
```

[illegible]





## n) Crosstab for Region, Smoker and Sex

		smoker			
		no		yes	
		sex		sex	
		female	male	female	male
		Count	Count	Count	Count
region	northeast	132	125	29	38
	northwest	135	132	29	29
	southeast	139	134	36	55
	southwest	141	126	21	37

## o) Crosstab of Sex vs Smoker

### Case Processing Summary

	Valid		Cases Missing		Total	
	N	Percent	N	Percent	N	Percent
sex * smoker	1338	100.0%	0	0.0%	1338	100.0%

sex \* smoker Crosstabulation

Count

		smoker		Total
		no	yes	
sex	female	547	115	662
	male	517	159	676
Total		1064	274	1338

## p) Crosstab for Smoker vs Region along with a clustered bar chart

### Case Processing Summary

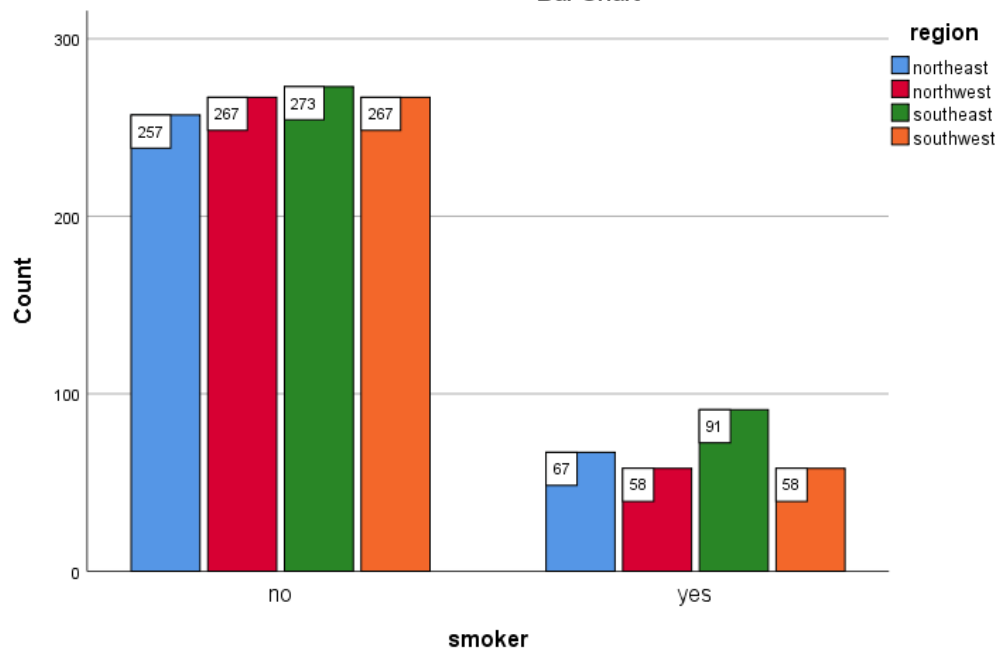
	Valid		Cases Missing		Total	
	N	Percent	N	Percent	N	Percent
smoker * region	1338	100.0%	0	0.0%	1338	100.0%

### smoker \* region Crosstabulation

Count

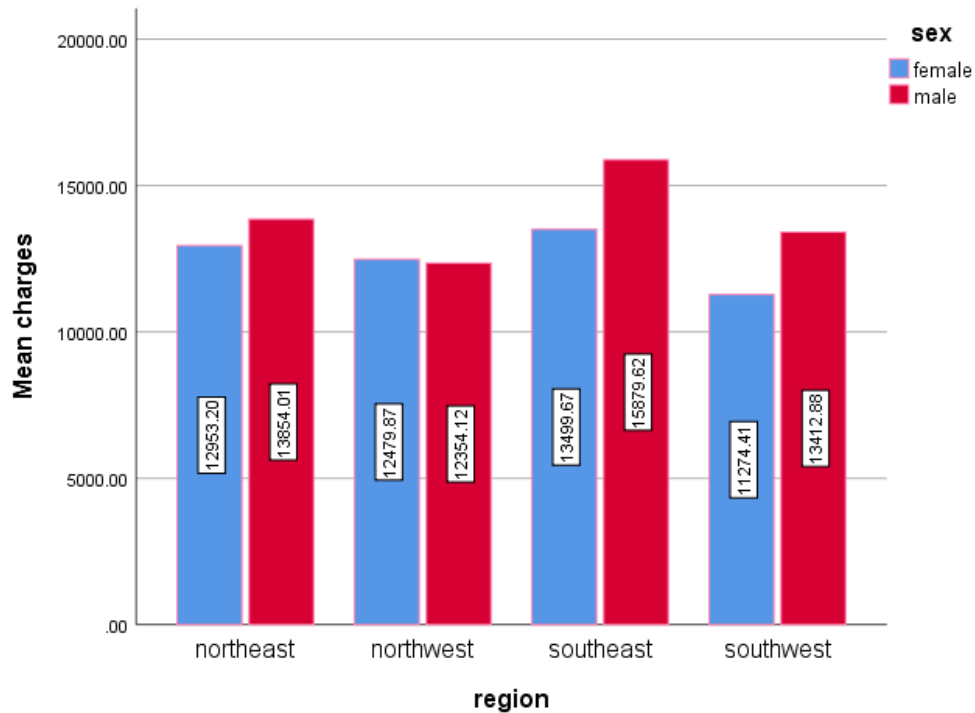
		region				Total
		northeast	northwest	southeast	southwest	
smoker	no	257	267	273	267	1064
	yes	67	58	91	58	274
Total		324	325	364	325	1338

Bar Chart

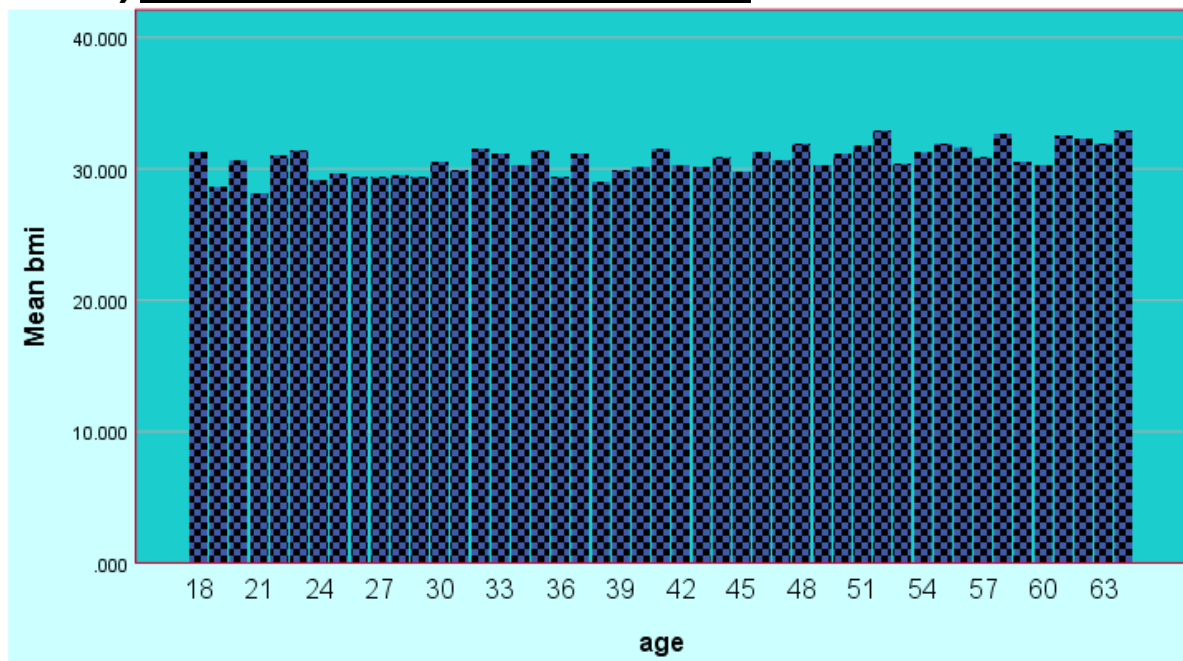


Q3)

**a) Mean Charges Genderwise and Regionwise**

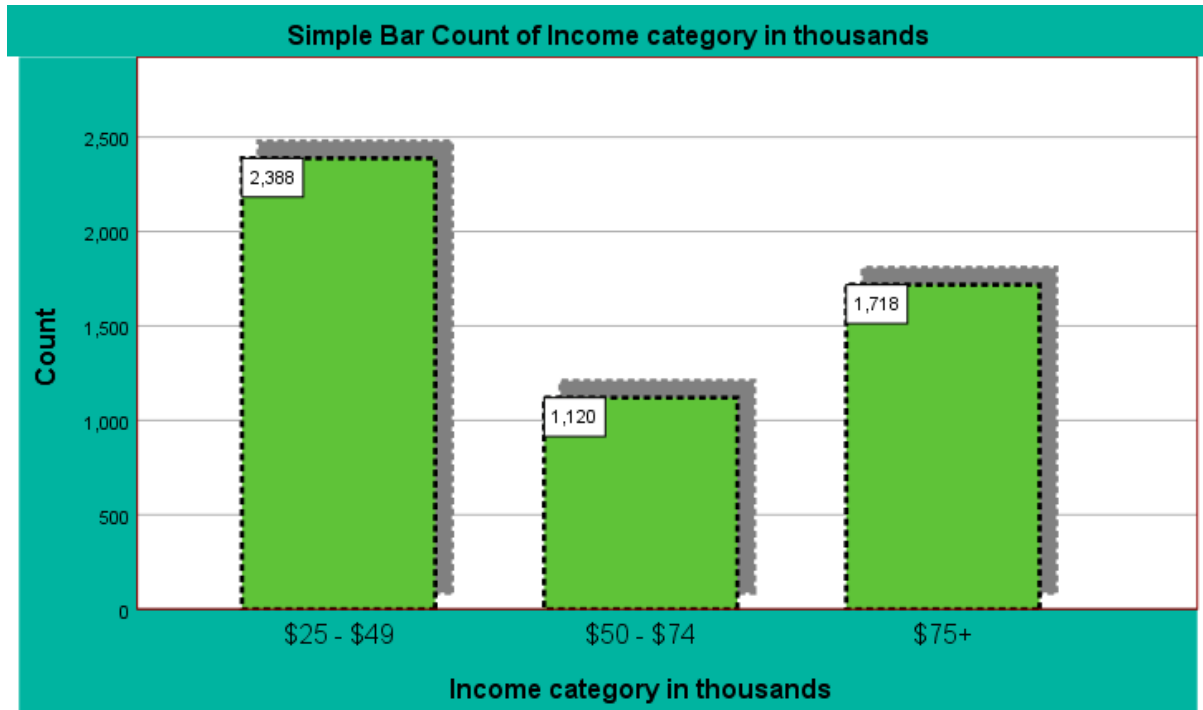


**c) Mean BMI for different Age**

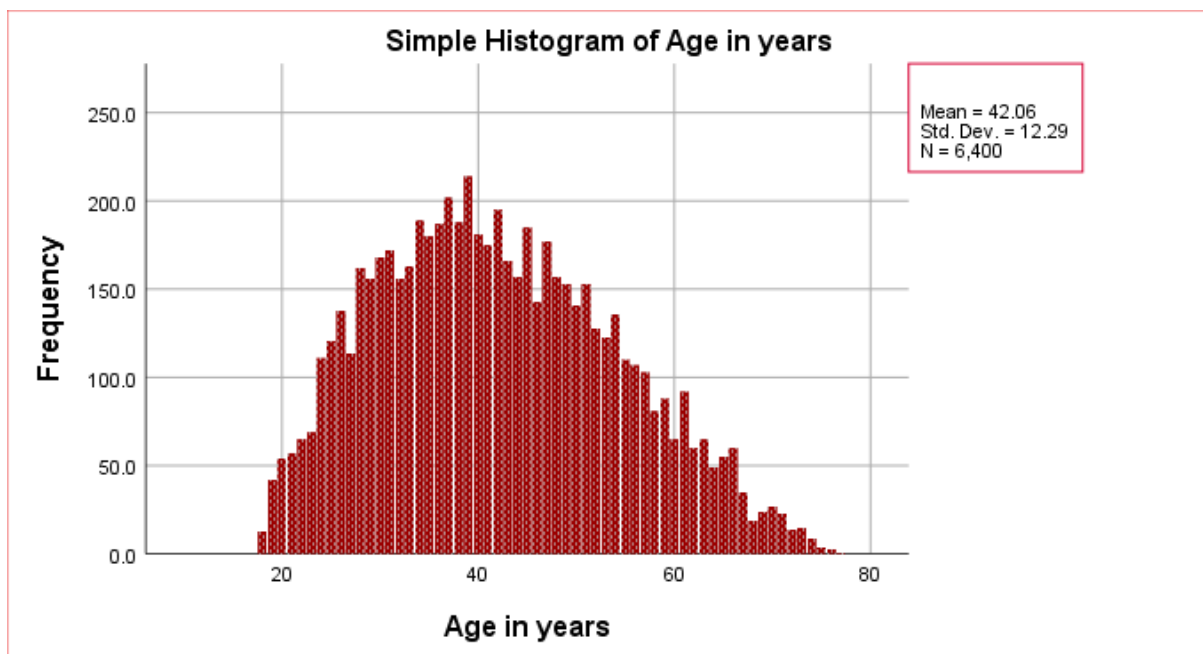


Q4)

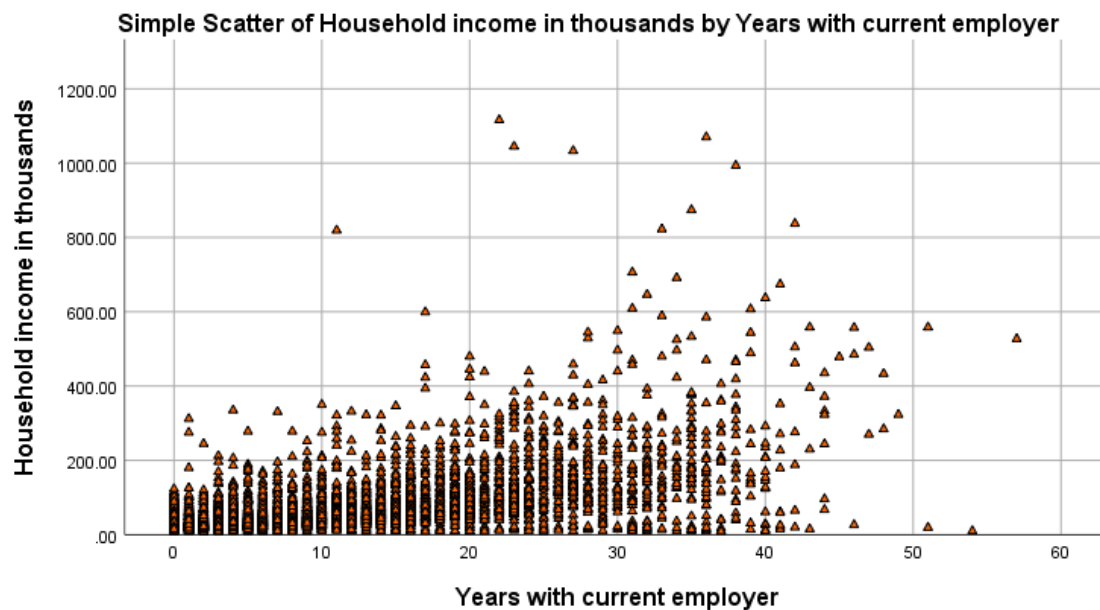
a) BAR CHART of Income Category



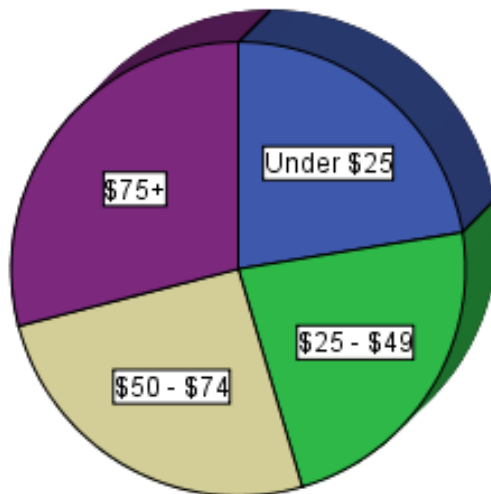
b) HISTOGRAM of Age



### c) SCATTERPLOT of Household Income VS Years with Current Employer



### d) PIE CHART for Income Category and Age



The bar chart depicts the mean age for different Income categories. The income category of \$75+ has comparatively higher mean.

## e) Explore Age with Gender, Martial Status and Retirement Status

### Marital status

#### Case Processing Summary

		Valid		Cases Missing		Total	
Marital status		N	Percent	N	Percent	N	Percent
Age in years	Unmarried	3224	100.0%	0	0.0%	3224	100.0%
	Married	3176	100.0%	0	0.0%	3176	100.0%

#### Descriptives

Marital status			Statistic	Std. Error
Age in years	Unmarried	Mean	42.02	.217
		95% Confidence Interval for Lower Bound	41.60	
		Mean Upper Bound	42.45	
		5% Trimmed Mean	41.74	
		Median	41.00	
		Variance	151.934	
		Std. Deviation	12.326	
		Minimum	18	
		Maximum	75	
		Range	57	
		Interquartile Range	19	
		Skewness	.305	.043
		Kurtosis	-.607	.086
	Married	Mean	42.10	.217
		95% Confidence Interval for Lower Bound	41.67	
		Mean Upper Bound	42.52	
		5% Trimmed Mean	41.83	
		Median	41.00	
		Variance	150.162	
		Std. Deviation	12.254	
		Minimum	18	
		Maximum	77	
		Range	59	







## Retired

### Case Processing Summary

		Valid		Cases Missing		Total	
Retired		N	Percent	N	Percent	N	Percent
Age in years	No	6092	100.0%	0	0.0%	6092	100.0%
	Yes	308	100.0%	0	0.0%	308	100.0%

### Descriptives

Retired		Statistic		Std. Error
Age in years	No	Mean	40.90	.146
		95% Confidence Interval for Lower Bound	40.61	
		Mean Upper Bound	41.18	
		5% Trimmed Mean	40.69	
		Median	40.00	
		Variance	129.507	
		Std. Deviation	11.380	
		Minimum	18	
		Maximum	74	
		Range	56	
		Interquartile Range	17	
		Skewness	.232	.031
		Kurtosis	-.612	.063
	Yes	Mean	65.00	.278
		95% Confidence Interval for Lower Bound	64.46	
		Mean Upper Bound	65.55	
		5% Trimmed Mean	64.95	
		Median	65.00	
		Variance	23.723	
		Std. Deviation	4.871	
		Minimum	55	
		Maximum	77	
		Range	22	
		Interquartile Range	8	
		Skewness	.162	.139
		Kurtosis	-.633	.277

## Stem-and-Leaf Plots

[illegible]

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

Gender	Valid		Cases Missing		Total	
	N	Percent	N	Percent	N	Percent
Male	10	100.0	0	0.0	10	100.0
Female	10	100.0	0	0.0	10	100.0
<b>Total</b>	<b>20</b>	<b>100.0</b>	<b>0</b>	<b>0.0</b>	<b>20</b>	<b>100.0</b>

Age in years	Female	3179	100.0%	0	0.0%	3179	100.0%
	Male	3221	100.0%	0	0.0%	3221	100.0%

### Descriptives

Gender		Statistic		Std. Error
Age in years	Female	Mean	41.74	.212
		95% Confidence Interval for Lower Bound	41.32	
		Mean Upper Bound	42.15	
		5% Trimmed Mean	41.45	
		Median	41.00	
		Variance	142.988	
		Std. Deviation	11.958	
		Minimum	18	
		Maximum	76	
		Range	58	
		Interquartile Range	17	
		Skewness	.327	.043
		Kurtosis	-.534	.087
	Male	Mean	42.37	.222
		95% Confidence Interval for Lower Bound	41.94	
		Mean Upper Bound	42.81	
		5% Trimmed Mean	42.11	
		Median	41.00	
		Variance	158.818	
		Std. Deviation	12.602	
		Minimum	18	
		Maximum	77	
		Range	59	
		Interquartile Range	19	
		Skewness	.268	.043
		Kurtosis	-.667	.086

**Age in years**

## Stem-and-Leaf Plots

Age in years Stem-and-Leaf Plot for  
gender= Female

Frequency	Stem &	Leaf
24.00	1 .	8999
165.00	2 .	00000111112222233333444444444
341.00	2 .	
5555555555666666666677777777778888888888999999999999999	3 .	
448.00	3 .	
000000000000000111111111111122222222222222233333333333333344444444444444444	3 .	
507.00	3 .	
5555555555555556666666666666666677777777777777778888888888888889999999999	4 .	
99999999	4 .	
441.00	4 .	
0000000000000001111111111111122222222222222223333333333333333444444444444444	4 .	
415.00	4 .	
555555555555555666666666666666667777777777777777888888888888888999999999999	5 .	
328.00	5 .	
00000000000001111111111111122222222222333333333333333344444444444	5 .	55555555556666666666777777777788888889999999
231.00	5 .	
148.00	6 .	000001111111122233333444
94.00	6 .	555666667778899
34.00	7 .	0011234
2.00	7 .	&
1.00	Extremes	(>=76)

Stem width: 10  
Each leaf: 6 case(s)

& denotes fractional leaves.

Age in years Stem-and-Leaf Plot for  
gender= Male

Frequency	Stem &	Leaf
31.00	1 .	899999
191.00	2 .	0000011111112222222333333333444444444444444
350.00	2 .	
555555555555666666666666666677777777777788888888888888899999999999999	3 .	
400.00	3 .	
0000000000000000011111111111111222222222222222233333333333333333444444444444444	3 .	
464.00	3 .	
555555555555555666666666666666666677777777777777778888888888888888888999	4 .	
999999999999999999999999	4 .	
433.00	4 .	
00000000000000000001111111111111122222222222222222222333333333333333334444	4 .	
4444444444444444	4 .	
400.00	4 .	

```

353.00      5 .
00000000000000011111111111111112222222222222223333333333333444444444444444
258.00      5 . 555555555566666666666667777777777777788888888889999999999
183.00      6 . 000000011111111122222222233333334444444
 99.00      6 . 55555566666667778999
 54.00      7 . 0001122334
  5.00      7 . &

```

& denotes fractional leaves.

Box plot showing the distribution of Age in years (Y-axis, ranging from 20 to 80) across two categories: Female and Male (X-axis).

The plot displays the median (horizontal line within the box), the interquartile range (the box itself), and the range of the data (whiskers). Outliers are indicated by small circles.

For Females, the median age is approximately 42 years. The interquartile range (IQR) is roughly 33 to 51 years. The whiskers extend from approximately 18 to 75 years, with one outlier at 77 years (labeled 1,998).

For Males, the median age is approximately 41 years. The interquartile range (IQR) is roughly 32 to 52 years. The whiskers extend from approximately 18 to 77 years.



## Q5)

GET

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FILE='C:\Users\ADMIN\Desktop\Dhanashri\Bsc ASA SOS\SEM 5\Multivariate Analysis\Newdata.sav'.
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DATASET NAME DataSet1 WINDOW=FRONT.
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NEW FILE.
```

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DATASET NAME DataSet2 WINDOW=FRONT.
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SAVE OUTFILE='C:\Users\ADMIN\Desktop\Dhanashri\Bsc ASA SOS\SEM 5\Multivariate Analysis\Ver_data.sav'
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DATASET CLOSE DataSet2.
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












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EXECUTE.
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SAVE OUTFILE='C:\Users\ADMIN\Desktop\Dhanashri\Bsc ASA SOS\SEM 5\Multivariate Analysis\Newdata.sav'
```

```
/COMPRESSED.
```

Name	Gender	DOB	Score_Ss em	Age	Region	Weight	Grades	Height	Spend_pe r_month	Earn_per _month
A	Male	15-Mar-2001	94	20	North	54.0	A	165.0	100.0	200.0
B	Female	12-May-2002	88	21	South	65.0	B	154.0	150.0	200.0
C	Female	25-Aug-2000	90	23	East	66.0	A	166.0	130.0	250.0
D	Male	14-Jun-1997	99	19	West	56.0	A	170.0	140.0	275.0
E	Female	23-Nov-1999	91	22	South	59.0	A	158.0	125.0	300.0
F	Male	12-Dec-2001	87	24	North	58.0	B	162.0	135.0	250.0
G	Male	11-Dec-2002	86	21	West	57.0	B	161.0	160.0	175.0
H	Male	29-Jan-2003	85	20	East	56.0	B	162.0	200.0	200.0
I	Female	07-Jun-2001	84	18	West	60.0	B	163.0	120.0	160.0
J	Male	25-Nov-2000	89	19	North	69.0	B	164.0	100.0	215.0
K	Female	29-Sep-1995	92	20	South	68.0	A	166.0	50.0	220.0
L	Female	01-Apr-2003	95	25	South	67.0	A	157.0	75.0	260.0
M	Male	21-Oct-2001	76	26	East	66.0	C	158.0	175.0	240.0
N	Male	28-Feb-2000	80	22	West	65.0	B	159.0	80.0	100.0
O	Female	10-Mar-2002	96	21	North	53.0	A	160.0	90.0	130.0
P	Male	04-Apr-1995	79	23	South	65.0	C	158.0	95.0	140.0
Q	Female	30-Jul-2001	78	27	West	64.0	C	167.0	150.0	250.0
R	Female	04-Aug-2004	93	23	West	76.0	A	164.0	175.0	300.0
S	Male	06-Oct-2002	94	19	East	61.0	A	161.0	160.0	240.0
T	Female	17-Aug-1996	96	20	South	52.0	A	162.0	100.0	210.0

	 Name	 Gender	 DOB	 Score_5sem	 Age	 Region	 Weight	 Grades	 Height	 Spend_per_month	 Earn_per_month	 Blood_Group	 ID
	A	Male	15-Mar-2001	94	20	North	54.0	A	165.0	100.0	200.0	O-	1
	B	Female	12-May-2002	88	21	South	65.0	B	154.0	150.0	200.0	B+	2
	C	Female	25-Aug-2000	90	23	East	66.0	A	166.0	130.0	250.0	A-	3
	D	Male	14-Jun-1997	99	19	West	56.0	A	170.0	140.0	275.0	B-	4
	E	Female	23-Nov-1999	91	22	South	59.0	A	158.0	125.0	300.0	O-	5
	F	Male	12-Dec-2001	87	24	North	58.0	B	162.0	135.0	250.0	AB+	6
	G	Male	11-Dec-2002	86	21	West	57.0	B	161.0	160.0	175.0	AB-	7
	H	Male	29-Jan-2003	85	20	East	56.0	B	162.0	200.0	200.0	A-	8
	I	Female	07-Jun-2001	84	18	West	60.0	B	163.0	120.0	160.0	O+	9
	J	Male	25-Nov-2000	89	19	North	69.0	B	164.0	100.0	215.0	O+	10
	K	Female	29-Sep-1995	92	20	South	68.0	A	166.0	50.0	220.0	A+	11
	L	Female	01-Apr-2003	95	25	South	67.0	A	157.0	75.0	260.0	AB-	12
	M	Male	21-Oct-2001	76	26	East	66.0	C	158.0	175.0	240.0	AB+	13
	N	Male	28-Feb-2000	80	22	West	65.0	B	159.0	80.0	100.0	O+	14
	O	Female	10-Mar-2002	96	21	North	53.0	A	160.0	90.0	130.0	A-	15
	P	Male	04-Apr-1995	79	23	South	65.0	C	158.0	95.0	140.0	O+	16
	Q	Female	30-Jul-2001	78	27	West	64.0	C	167.0	150.0	250.0	B+	17
	R	Female	04-Aug-2004	93	23	West	76.0	A	164.0	175.0	300.0	AB-	18
	S	Male	06-Oct-2002	94	19	East	61.0	A	161.0	160.0	240.0	O+	19
	T	Female	17-Aug-1996	96	20	South	52.0	A	162.0	100.0	210.0	A+	20