Project Instruction's

Create a database in mysQL with 300 rows and multiple columns [MySQL]

Export the table into excel or CSV and design a digital dashboard [Power Bi]

Using the data do the following

Boxplot

Violin plot

Venn diagram

Using the data do the followings

Demographic

Cross tab [between two string variables]

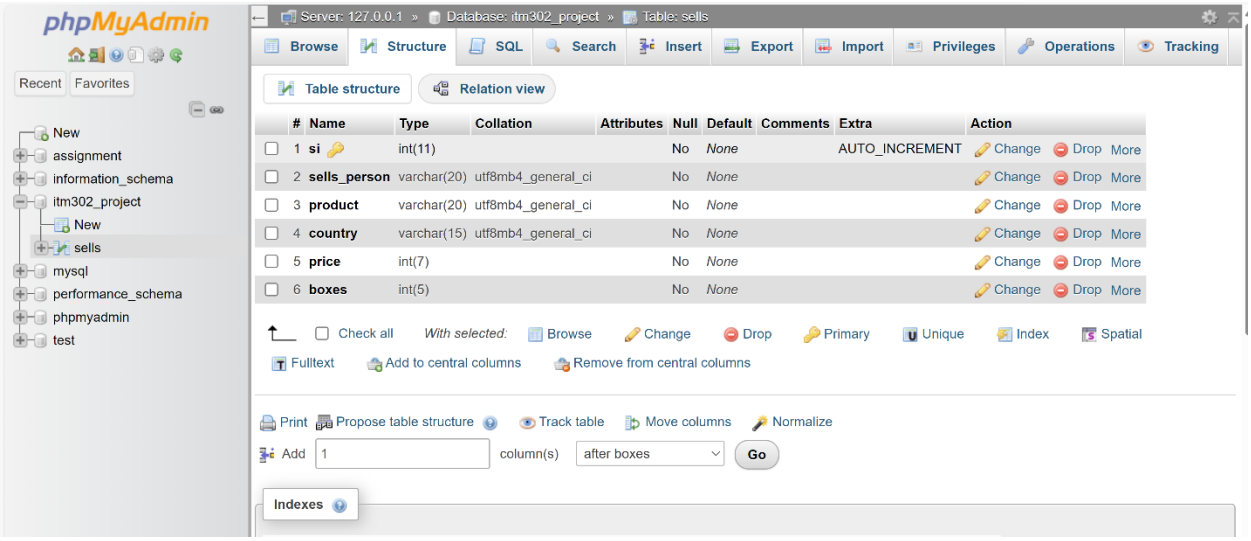
One sample t-test

Independent sample t-test

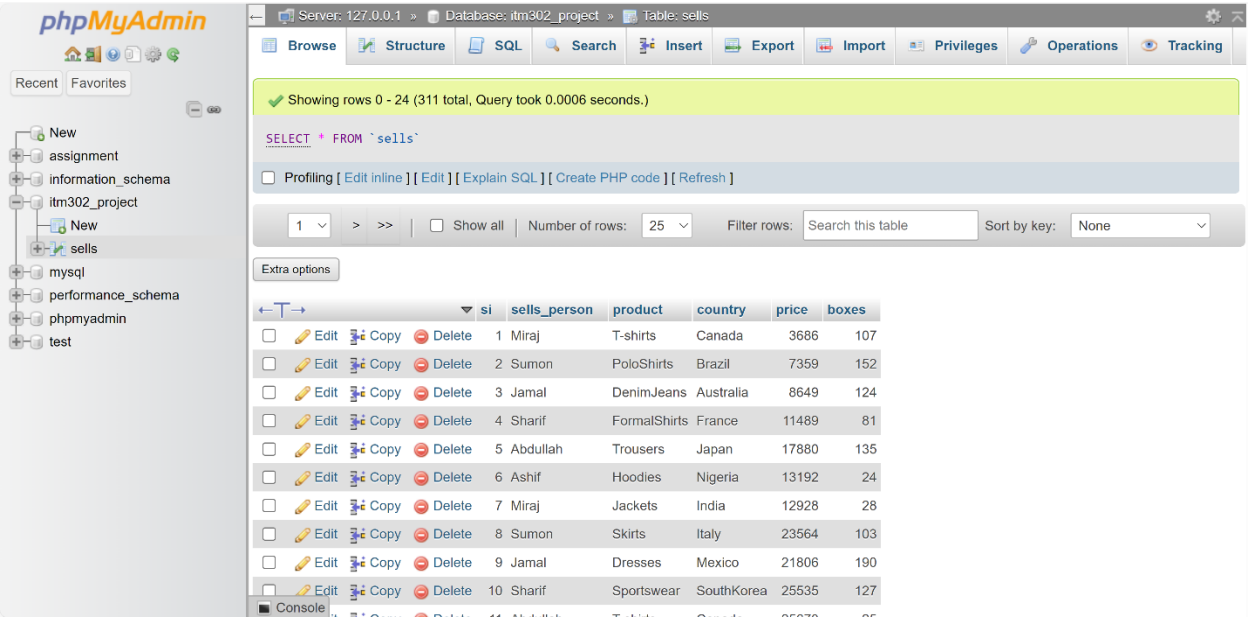
Linear regression

1. Using xampp

BY using xammp ,created a database in Mysql and added a table with 6 column's and 300 rows .Then export the data table in CSV format .

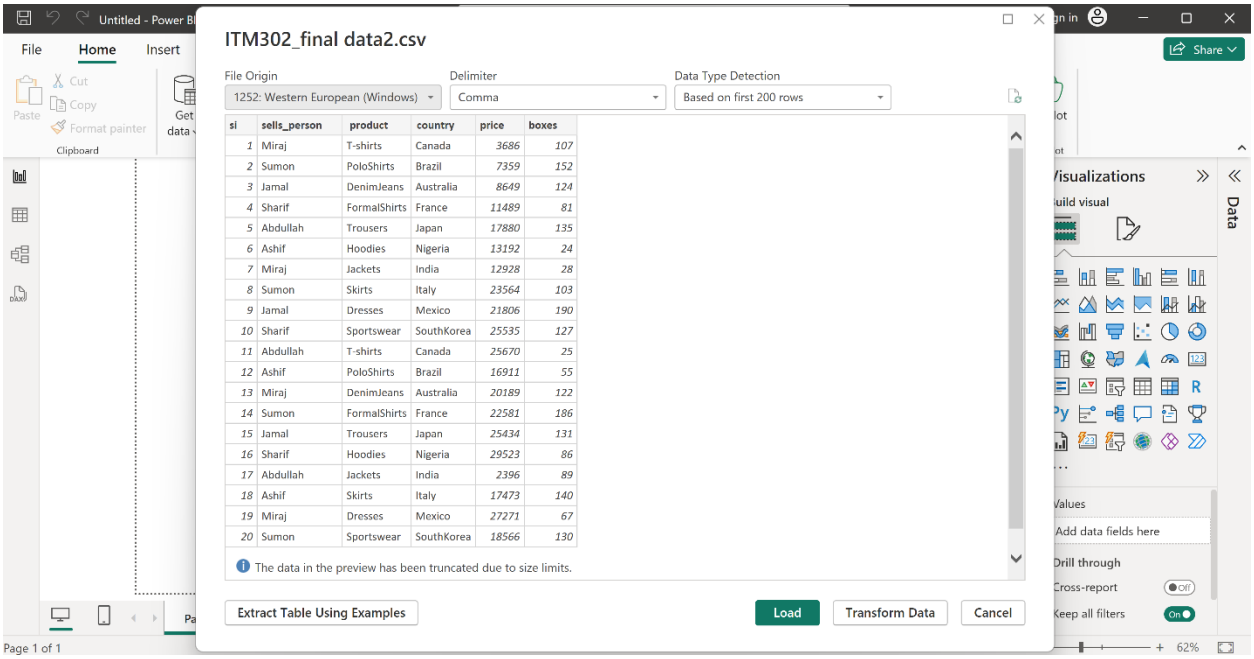


Rows and columns are prepared with data .

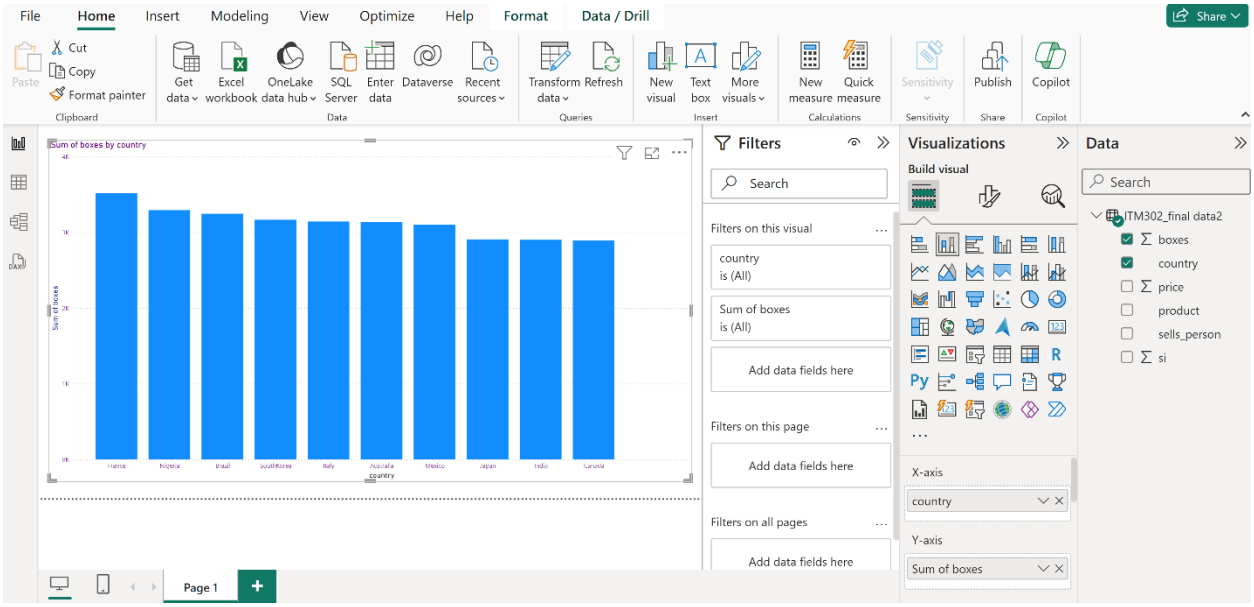


2. Using Power Bi Designing a digital dashboard with different data visualization .

Successfully imported CSV file in power bi software.

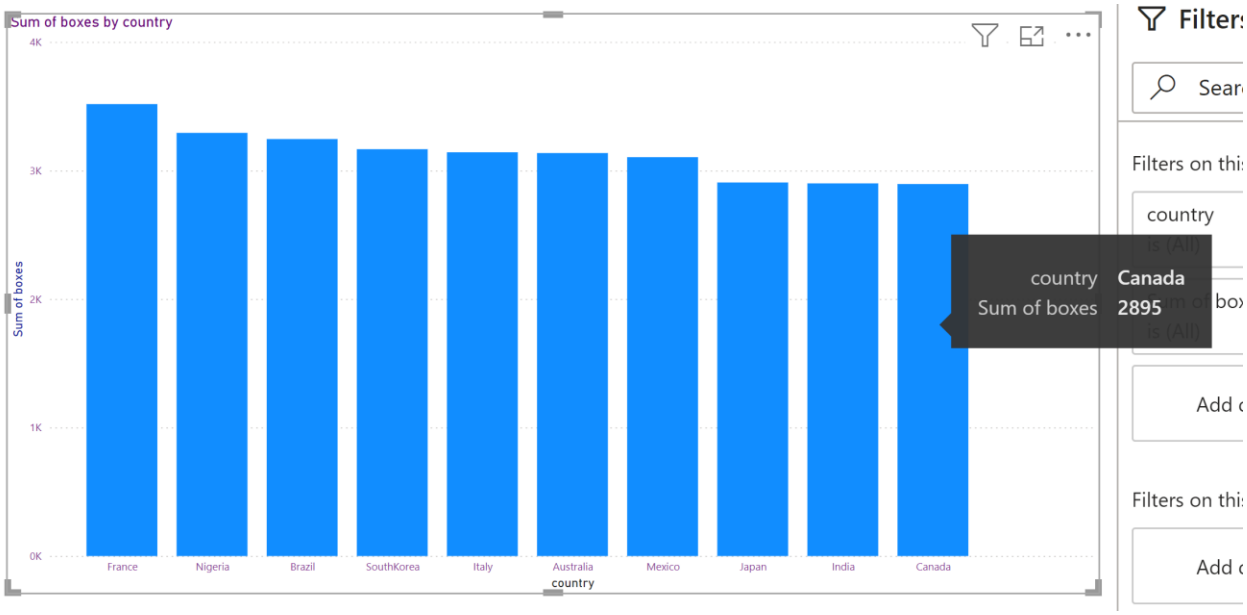


Using power bi we visualized which country we shipped most of the boxes , we figure out that we shipped most of our boxes in France and minimum in Canada.

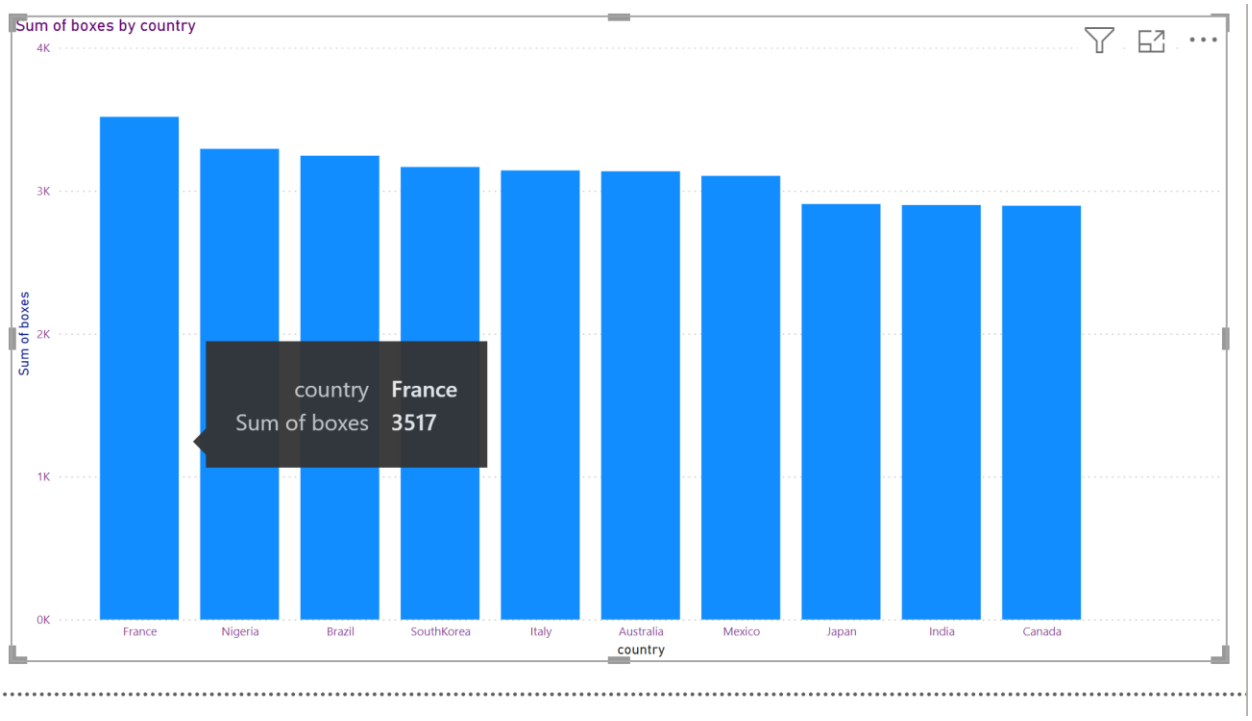


More specified with numbers.

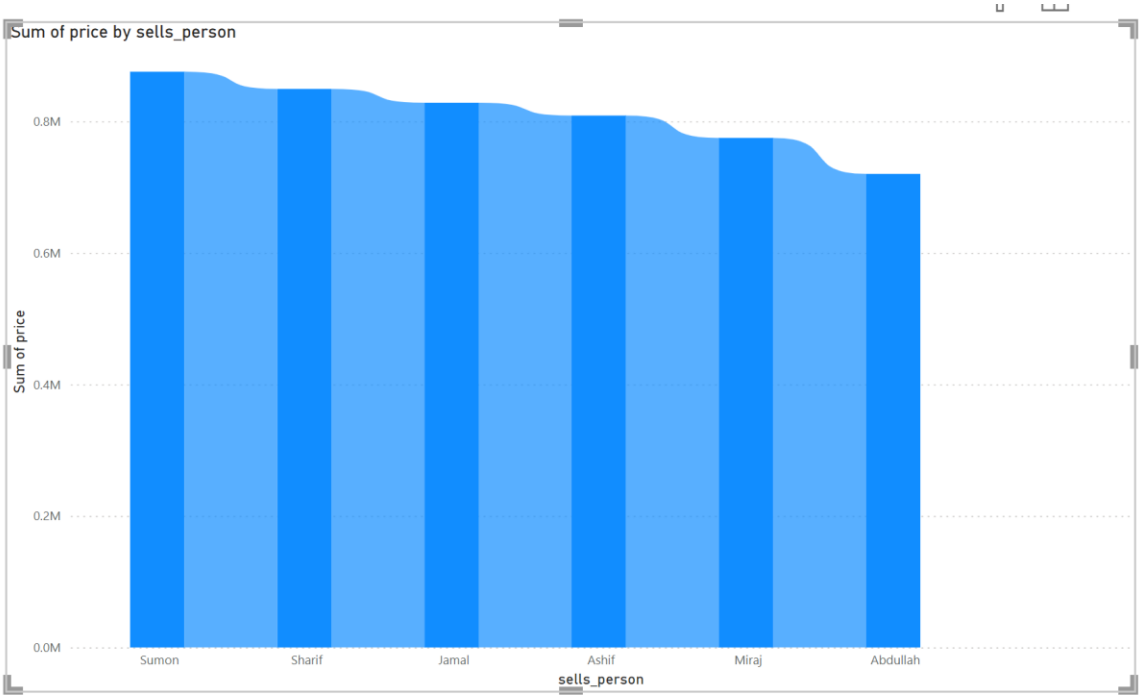
Total 2895 boxes has been shipped to Canada that in the minimum among other 9 countries .



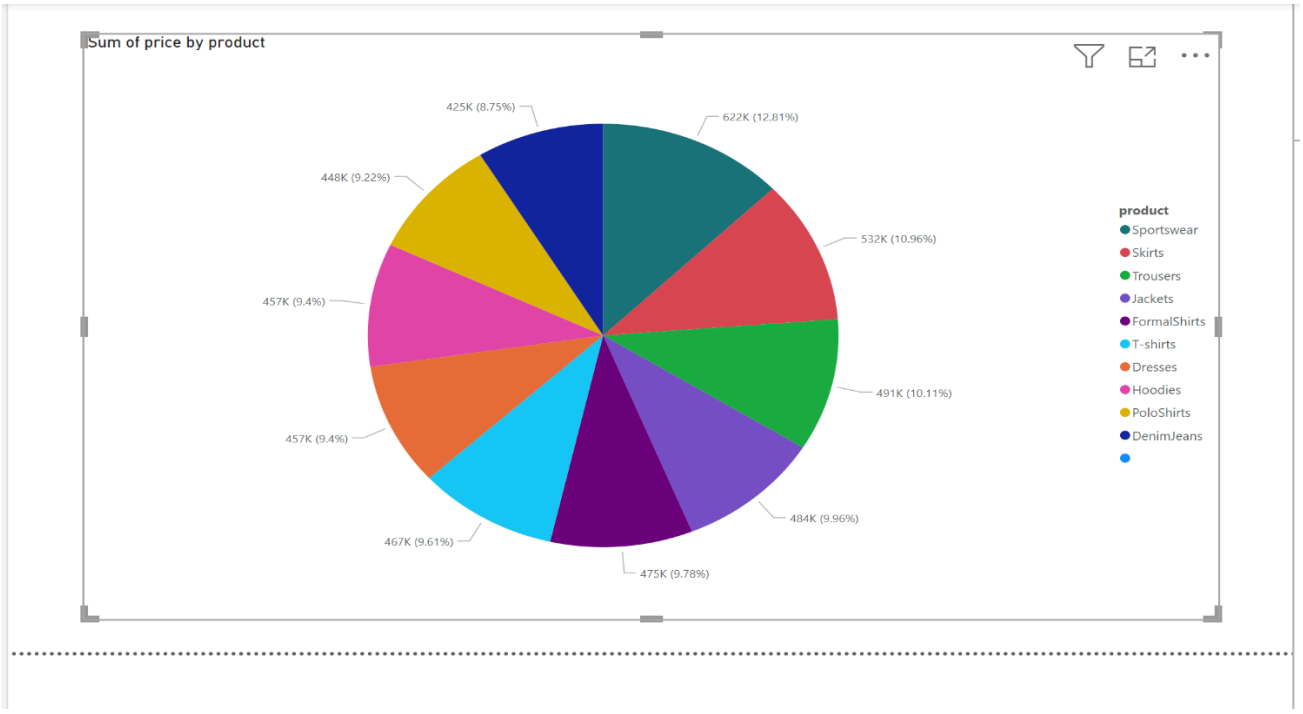
Total 3517 boxes were shipped to France.That is the highest among other.



This is the data of sells person that represents their performance which shows Sumon made most of sells that is 0.8+ million dollars and Abdullah books lest amount of sells that is 0.66 million dollars .

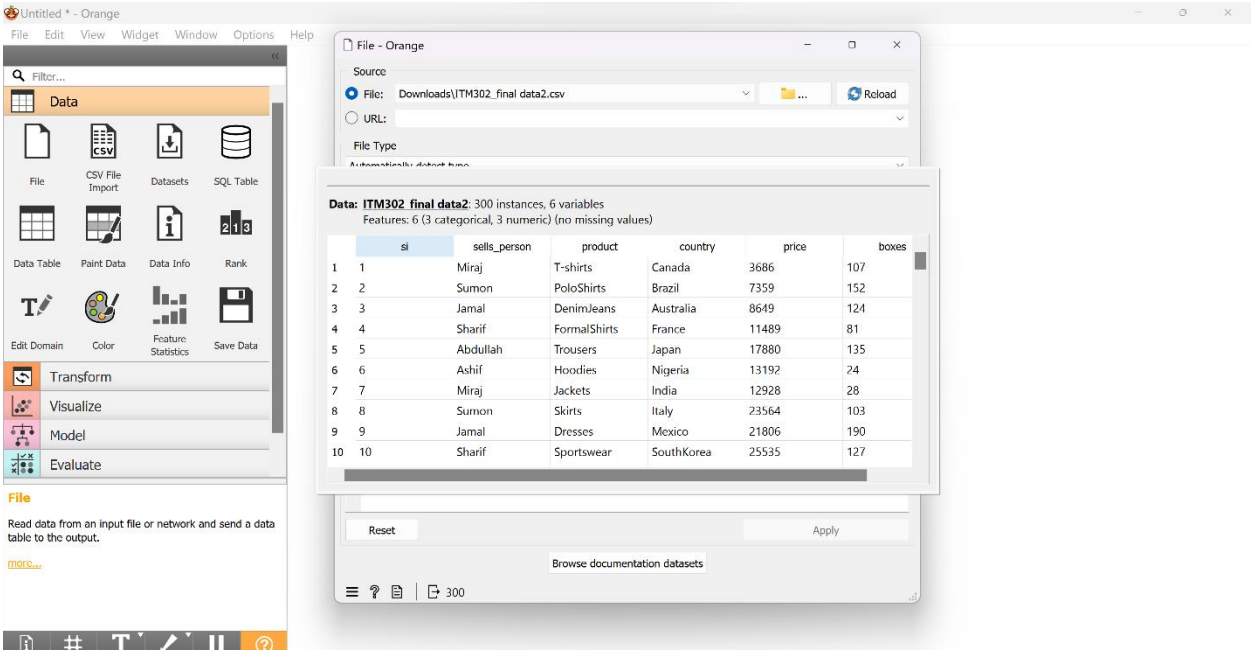


The pie charts represent the total market value of each products. Here we can see Sportswear holds the large possition in the market that is 12.81% of total market share and it makes 6 lakh and 22 thousands dollar . And Denimjeans makes lest amount of money.

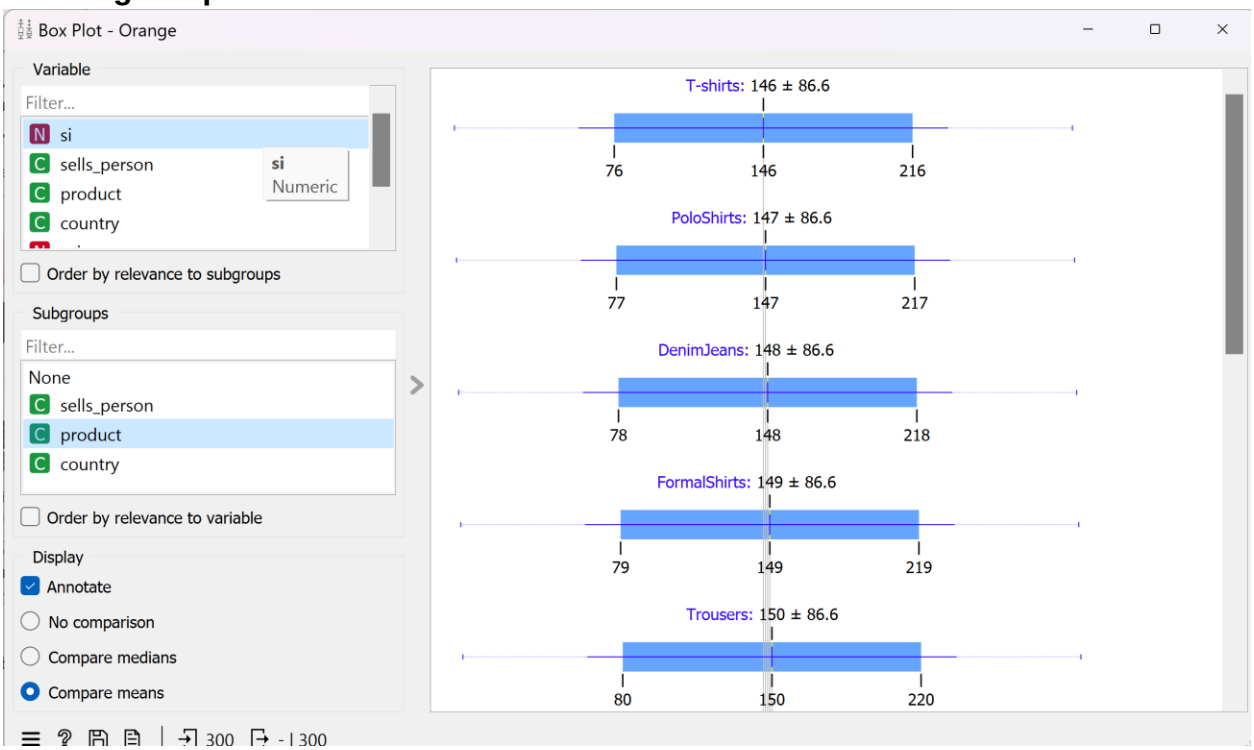


3.Using Orange Preparing Boxplot, Violin plot, Venn diagram.

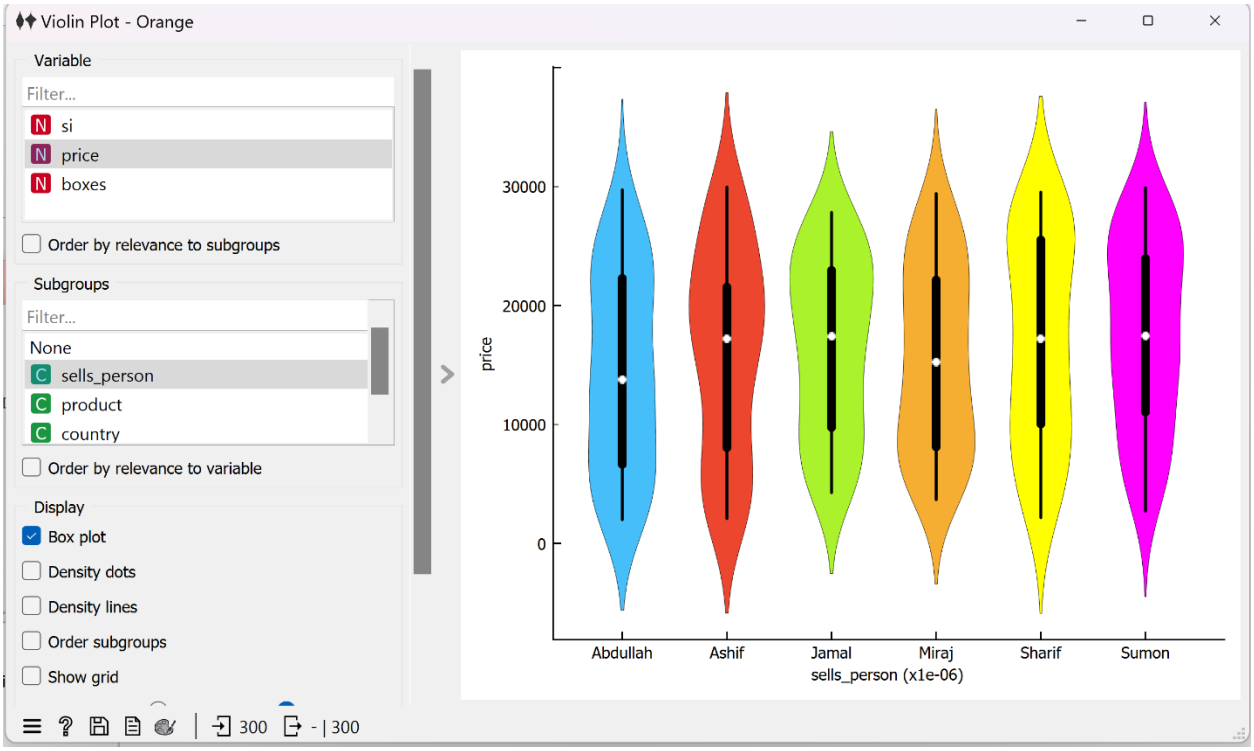
Successfully insert data into file.



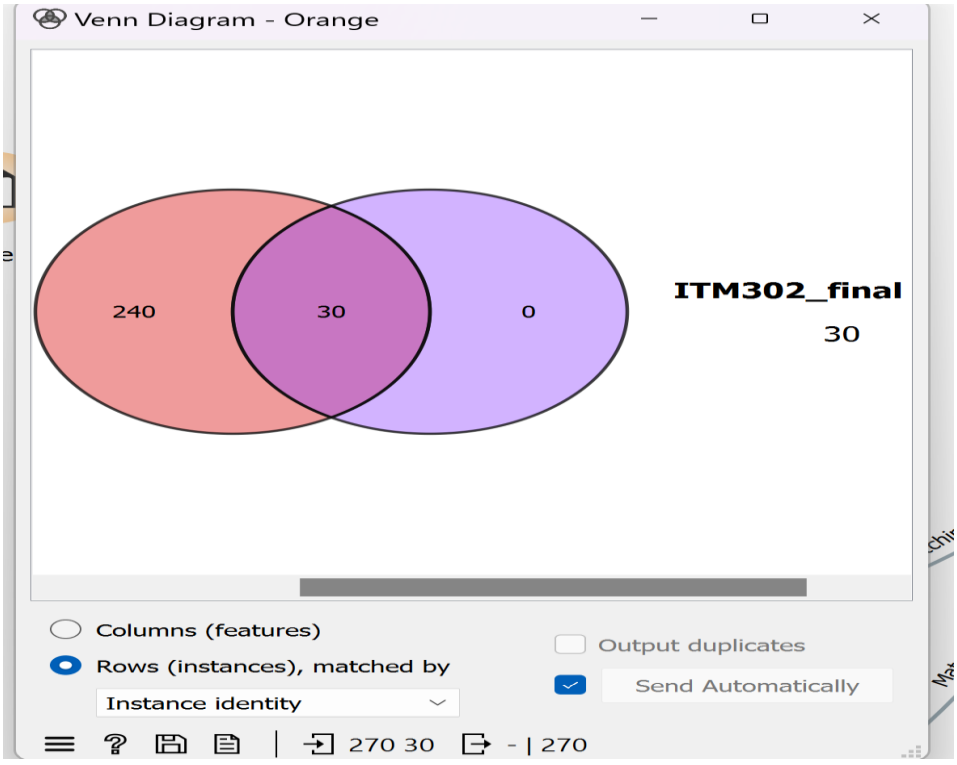
Creating Boxplot



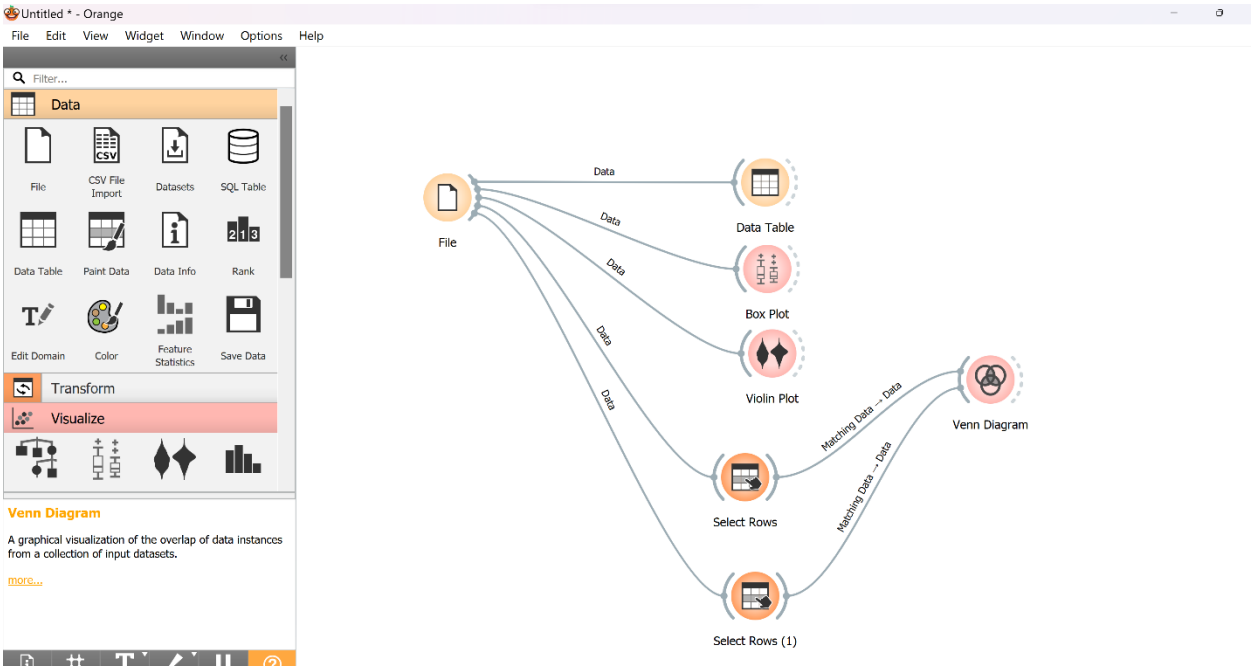
Creating **Violin plot**



Creating **Venn diagram.**

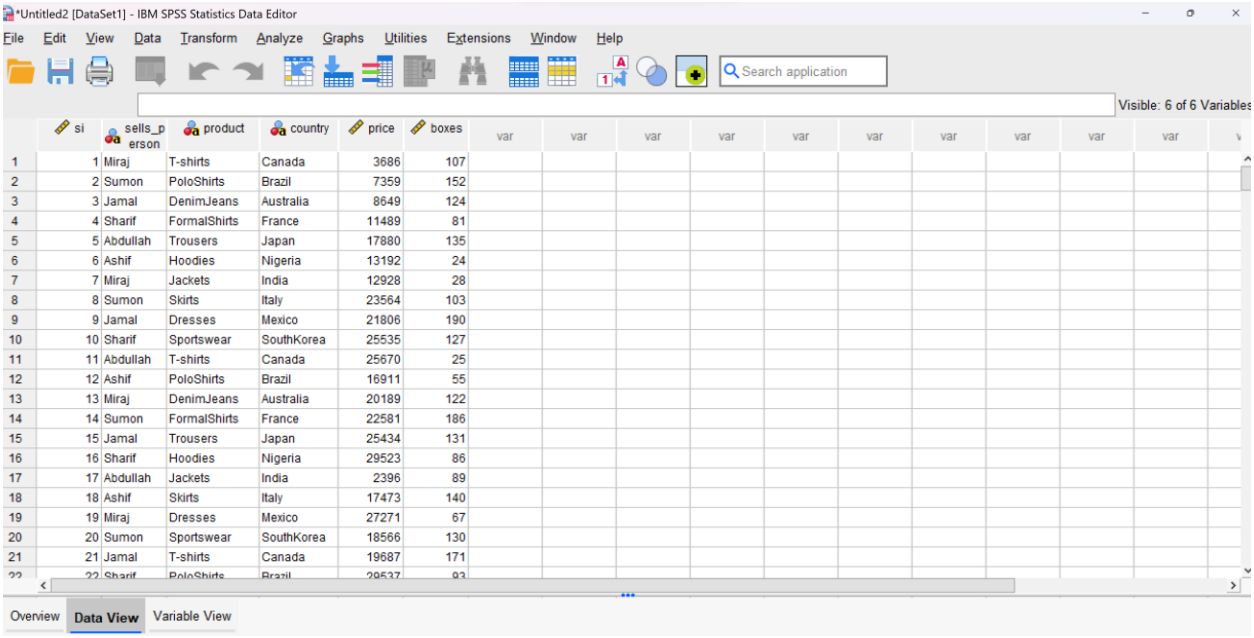


In Orange software, I created a Boxplot and Violin plot to analyze product prices and distributions. Additionally, I used a Venn diagram to visualize the relationships between products, salespersons, and countries. These visualizations provided insights into pricing trends and categorical overlaps.



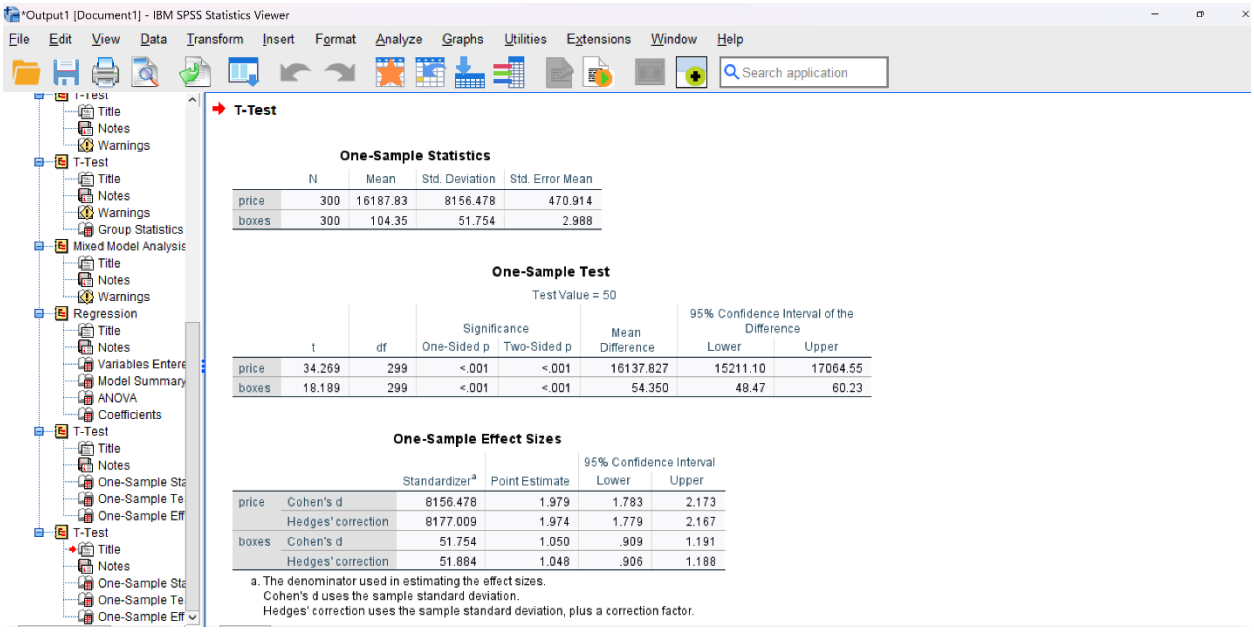
4.IBM spss .using spss analyze Demographic Cross tab [between two string variables] One sample t-test,Independent sample t-test ,Linear regression.

Successfully insert data into spss software.



	si	sells_person	product	country	price	boxes
1	1	Miraj	T-shirts	Canada	3686	107
2	2	Sumon	PoloShirts	Brazil	7359	152
3	3	Jamal	DenimJeans	Australia	8649	124
4	4	Sharif	FormalShirts	France	11489	81
5	5	Abdullah	Trousers	Japan	17880	135
6	6	Ashif	Hoodies	Nigeria	13192	24
7	7	Miraj	Jackets	India	12928	28
8	8	Sumon	Skirts	Italy	23564	103
9	9	Jamal	Dresses	Mexico	21806	190
10	10	Sharif	Sportswear	SouthKorea	25535	127
11	11	Abdullah	T-shirts	Canada	25670	25
12	12	Ashif	PoloShirts	Brazil	16911	55
13	13	Miraj	DenimJeans	Australia	20189	122
14	14	Sumon	FormalShirts	France	22581	186
15	15	Jamal	Trousers	Japan	25434	131
16	16	Sharif	Hoodies	Nigeria	29523	86
17	17	Abdullah	Jackets	India	2396	89
18	18	Ashif	Skirts	Italy	17473	140
19	19	Miraj	Dresses	Mexico	27271	67
20	20	Sumon	Sportswear	SouthKorea	18566	130
21	21	Jamal	T-shirts	Canada	19687	171
22	22	Sharif	PoloShirts	Brazil	29537	93

One-sample T test



One-Sample Statistics

	N	Mean	Std. Deviation	Std. Error Mean
price	300	16187.83	8156.478	470.914
boxes	300	104.35	51.754	2.988

One-Sample Test

Test Value = 50

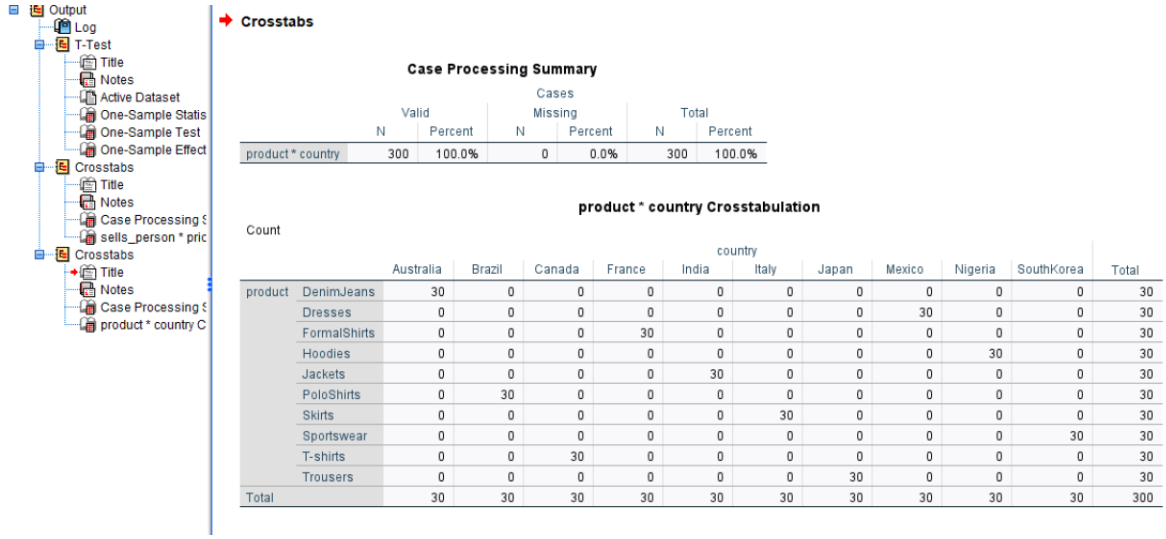
	t	df	Significance One-Sided p	Significance Two-Sided p	Mean Difference	95% Confidence Interval of the Difference Lower	Upper
price	34.269	299	<.001	<.001	16137.827	15211.10	17064.55
boxes	18.189	299	<.001	<.001	54.350	48.47	60.23

One-Sample Effect Sizes

		Standardizer[a]	Point Estimate	95% Confidence Interval Lower	Upper
price	Cohen's d	8156.478	1.979	1.783	2.173
	Hedges' correction	8177.009	1.974	1.779	2.167
boxes	Cohen's d	51.754	1.050	.909	1.191
	Hedges' correction	51.884	1.048	.906	1.188

a. The denominator used in estimating the effect sizes.
Cohen's d uses the sample standard deviation.
Hedges' correction uses the sample standard deviation, plus a correction factor.

Crosstab statistics



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Crosstabs

Case Processing Summary

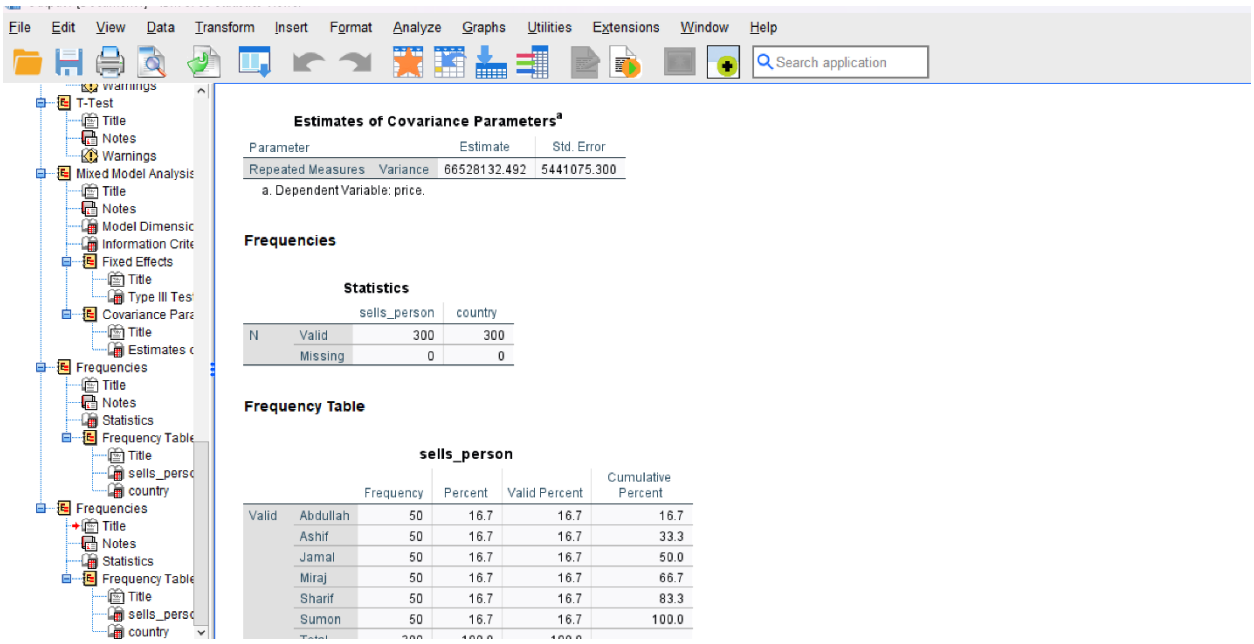
	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
product * country	300	100.0%	0	0.0%	300	100.0%

product * country Crosstabulation

Count

		country									
		Australia	Brazil	Canada	France	India	Italy	Japan	Mexico	Nigeria	SouthKorea	Total
product	DenimJeans	30	0	0	0	0	0	0	0	0	0	30
	Dresses	0	0	0	0	0	0	0	30	0	0	30
	FormalShirts	0	0	0	30	0	0	0	0	0	0	30
	Hoodies	0	0	0	0	0	0	0	0	30	0	30
	Jackets	0	0	0	0	30	0	0	0	0	0	30
	PoloShirts	0	30	0	0	0	0	0	0	0	0	30
	Skirts	0	0	0	0	0	30	0	0	0	0	30
	Sportswear	0	0	0	0	0	0	0	0	0	30	30
	T-shirts	0	0	30	0	0	0	0	0	0	0	30
	Trousers	0	0	0	0	0	0	30	0	0	0	30
Total		30	30	30	30	30	30	30	30	30	30	300

Demographic statistics



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    - country

Estimates of Covariance Parameters[a]

Parameter		Estimate	Std. Error
Repeated Measures	Variance	66528132.492	5441075.300

a. Dependent Variable: price.

Frequencies

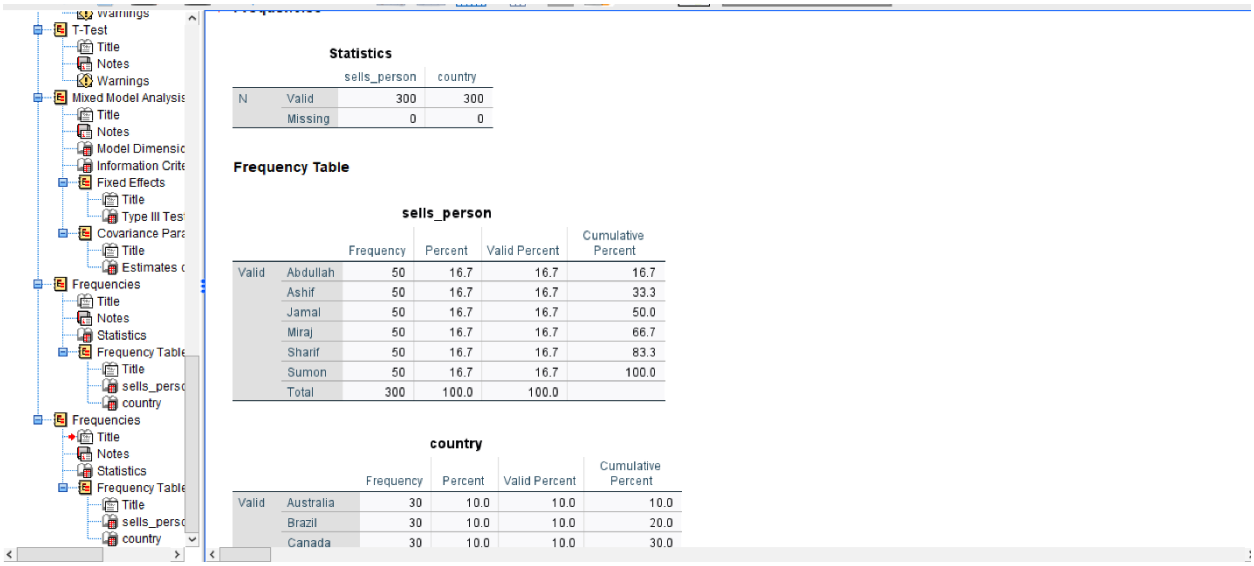
Statistics

		sells_person	country
N	Valid	300	300
	Missing	0	0

Frequency Table

sells_person

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Abdullah	50	16.7	16.7	16.7
	Ashif	50	16.7	16.7	33.3
	Jamal	50	16.7	16.7	50.0
	Miraj	50	16.7	16.7	66.7
	Sharif	50	16.7	16.7	83.3
	Sumon	50	16.7	16.7	100.0



It was an amazing experience!

Thank you .