

STATISTICS (SPSS FOR BEGINNERS)

Chapter 3

Statistics Tables

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- Tables function on SPSS enables you to summarize SPSS Statistics data, and display your analyses as presentation-quality, production-ready tables. It provides analytical capabilities to help you learn from your data, and offers advanced features that allow you to build tables people can easily read and interpret. The solution lets you work with output and present survey results using nesting, stacking and multiple response categories. You can also manage missing values, and change labels and formats.
- Before we make the tables, first you must create the dataset below:

Dataset (employee.sav)

Number	Gender	Fields_of_work	Status	Number_of_children	Education	Age	Period	Salary
156	Female	Marketing	Married	1	Bachelor	24	2	20500.00
157	Male	Marketing	Single	1	Vocational	27	5	26250.00
158	Female	Administration	Married	0	High School	25	1	17750.00
159	Male	Accounting	Married	3	High School	27	3	30750.00
160	Female	Production	Single	1	High School	28	4	31000.00
161	Female	Marketing	Single	1	Vocational	26	3	25750.00
162	Male	Marketing	Married	0	Bachelor	27	3	20750.00
163	Male	Accounting	Single	2	Vocational	28	5	26250.00
164	Male	Administration	Married	1	Vocational	29	4	21000.00
165	Female	Accounting	Single	1	High School	30	2	18000.00
166	Male	Administration	Single	0	Vocational	30	7	26750.00
167	Female	Production	Married	0	Bachelor	26	3	20750.00
168	Male	Accounting	Married	0	Vocational	27	4	21000.00
169	Female	Administration	Single	1	Vocational	29	5	31250.00
170	Female	Administration	Single	0	High School	27	3	25750.00
171	Female	Marketing	Married	0	Vocational	25	2	18000.00
172	Male	Accounting	Single	1	Vocational	24	1	30250.00
173	Male	Production	Married	2	Bachelor	26	1	25250.00
174	Female	Marketing	Single	0	High School	23	2	20500.00
175	Male	Accounting	Married	1	High School	27	3	30750.00
176	Male	Administration	Married	1	High School	29	5	21250.00
177	Male	Marketing	Single	1	High School	27	3	20750.00
178	Male	Administration	Single	0	Vocational	25	1	25250.00
179	Female	Administration	Married	2	Bachelor	24	1	30250.00
180	Male	Accounting	Married	3	Vocational	26	1	30250.00
181	Female	Marketing	Single	2	Vocational	23	1	30250.00
182	Male	Marketing	Single	1	High School	26	2	20500.00
183	Female	Marketing	Married	1	Vocational	27	4	26000.00
184	Female	Administration	Single	2	Bachelor	29	5	18750.00
185	Female	Accounting	Married	1	Vocational	27	3	25750.00
186	Female	Production	Single	3	Vocational	25	4	21000.00
187	Female	Accounting	Married	1	High School	24	1	20250.00
188	Female	Administration	Married	0	Vocational	26	2	20500.00
189	Male	Administration	Single	0	Vocational	23	1	30250.00
190	Male	Administration	Single	1	Vocational	27	2	25500.00
191	Female	Marketing	Married	1	Bachelor	29	3	18250.00
192	Male	Accounting	Single	2	Vocational	27	4	31000.00
193	Male	Production	Married	1	Vocational	29	3	20750.00
194	Female	Marketing	Single	0	High School	27	2	20500.00
195	Male	Administration	Single	0	Vocational	25	4	26000.00
196	Female	Administration	Married	1	Bachelor	24	2	18000.00
197	Male	Accounting	Single	1	Vocational	26	4	31000.00
198	Female	Production	Married	0	Vocational	23	1	25250.00
199	Male	Marketing	Married	2	High School	27	5	21250.00
200	Male	Accounting	Single	1	Vocational	29	6	31500.00
201	Male	Administration	Single	1	Vocational	27	5	21250.00
202	Male	Marketing	Married	4	Bachelor	25	2	20500.00
203	Male	Administration	Single	0	High School	24	1	25250.00
204	Male	Administration	Single	1	High School	26	3	30750.00
205	Male	Accounting	Married	2	High School	23	1	20250.00

Additional Information

VALUES	
0	Female
1	Male

VALUES	
1	Marketing
2	Accounting
3	Administration
4	Production

VALUES	
1	Single
2	Married

VALUES	
1	High School
2	Vocational
3	Bachelor

- There are two methods to make table on SPSS, Custom Tables and Multiple Response Table. We will learn the basic table design with Custom Tables

A. Basic tables

How to:

1. Open employee.sav
2. Choose Analyze
3. Choose Table
4. Click Custom Tables
5. Drag and drop field of work to Columns box
6. Drag and drop status to Rows box
7. Click OK

Results:

Custom Tables

[DataSet1] /Users/DMZ/Documents/employee.sav

		Employee_Field			
		Marketing Count	Accounting Count	Administratio n Count	Production Count
Employee_Status	Single	7	6	11	2
	Married	7	7	6	4

B. Tables with quantitative data

How to:

1. Open employee.sav
2. Choose Analyze
3. Choose Table
4. Click Custom Tables
5. Drag and drop field of work to Columns box
6. Drag and drop status to Rows box
7. Drag and drop salary after status on the Rows box
8. Block the salary variable then click Summary Statistics
9. Change according to the tutorial
10. Click Titles
11. Change according to the tutorial
12. Click OK

Results:

→ Custom Tables

SALARY STRUCTURE OF SINGLE AND MARRIED EMPLOYEES BY FIELD OF WORK

		Employee_Field							
		Marketing		Accounting		Administration		Production	
Employee_Status		Mean	Percentile 25	Mean	Percentile 25	Mean	Percentile 25	Mean	Percentile 25
Single	Employee_Salary	23500.00	20500.00	28000.00	26250.00	26068.18	25250.00	26000.00	21000.00
Married	Employee_Salary	20750.00	18250.00	25571.43	20250.00	21458.33	18000.00	23000.00	20750.00

checked

C. Complex tables

How to:

1. Open employee.sav
2. Choose Analyze
3. Choose Table
4. Click Custom Tables
5. Drag and drop field of work to Columns box
6. Drag and drop status to Rows box
7. Drag and drop salary after status on the Rows box
8. Drag and drop education below field of work on the Columns box
9. Block the salary variable then click Summary Statistics
10. Change according to the tutorial
11. Click Titles
12. Change according to the tutorial
13. Click OK

Results:

→ **Custom Tables**

[DataSet1] /Users/DMZ/Documents/employee.sav

		Employee_Education				Employee_Field				
		High School		Vocational		Bachelor		High School		
		Mean	Percentile 25	Mean	Percentile 25	Mean	Percentile 25	Mean	Percentile 25	
Employee_Status	Single	Employee_Salary	22291.67	20500.00	24850.00	21750.00	18250.00	18250.00	18000.00	18000.00
	Married	Employee_Salary	21250.00	21250.00	23562.50	18250.00	20000.00	19375.00	25500.00	20250.00

*half of the table

D. Tables with additional layer

How to:

1. Open employee.sav
2. Choose Analyze
3. Choose Table
4. Click Custom Tables
5. Drag and drop field of work to Columns box
6. Drag and drop education to Rows box
7. Drag and drop age after the education on Rows box
8. Click Layer
9. Put gender and status to the layer box
10. Choose "Show each combination of categories as layer"
11. Click OK

Results:

→ **Custom Tables**

Employee_Gender Male Employee_Status Married			Employee_Field			
			Marketing Mean	Accounting Mean	Administration Mean	Production Mean
Employee_Education	High School	Employee_Age	27	26	29	.
	Vocational	Employee_Age	27	26	27	29
	Bachelor	Employee_Age	26	.	.	26

E. Tables with data selection

How to:

1. Open employee.sav
2. Choose Analyze
3. Choose Table
4. Click Custom Tables

5. Drag and drop field of work to Columns box
6. Drag and drop education to Rows box
7. Block education until the color change to yellow
8. Click Categories and totals
9. Follow the tutorial
10. Click OK

Results:

➔ **Custom Tables**

Employee_Gender Male		Employee_Status Single	
		Employee_Field	
		Marketing Count	Administratio n Count
Employee_Education	Vocational	3	6
	Bachelor	0	2

F. Tables with Total and Subtotal function

How to:

1. Open employee.sav
2. Choose Analyze
3. Choose Table
4. Click Custom Tables
5. Drag and drop field of work to Columns box
6. Block field of work until the color change to yellow
7. Click Categories and totals
8. Follow the tutorial (repeat the process)
9. Click OK

Results:

➔ **Custom Tables**

		Employee_Field	
		Marketing Count	Production Count
Employee_Status	Single	12	3
	Married	9	5
	AMOUNT	21	8