

المهمة السابعة

مقرر مهارات بحثية ٢

اسم الطالب

حسن خضر الحلافي

الرقم الجامعي (٢٤٢٠٠٠٠٨٢)

كلية الإدارة- جامعة ميداوون

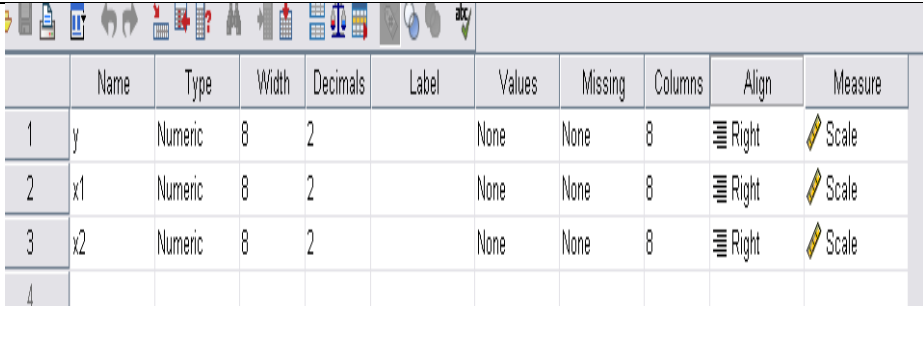
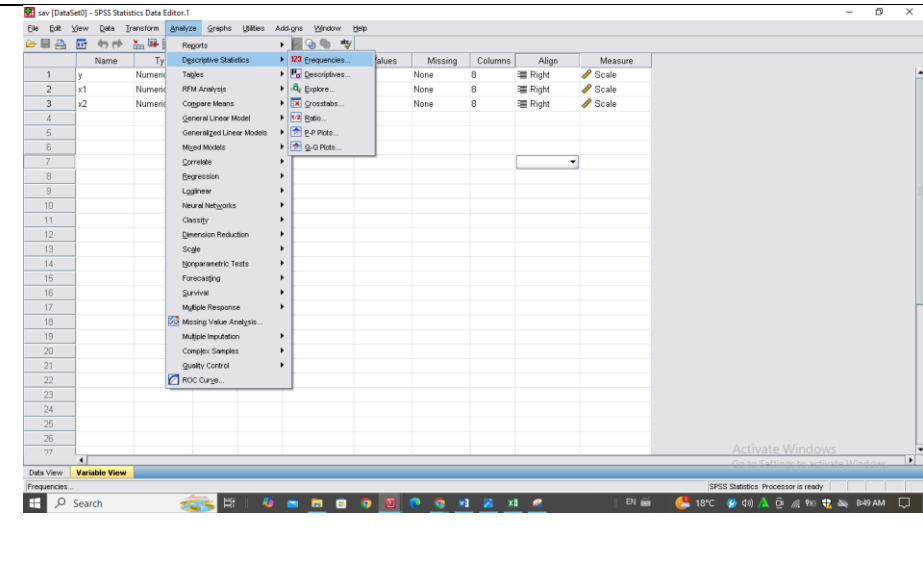
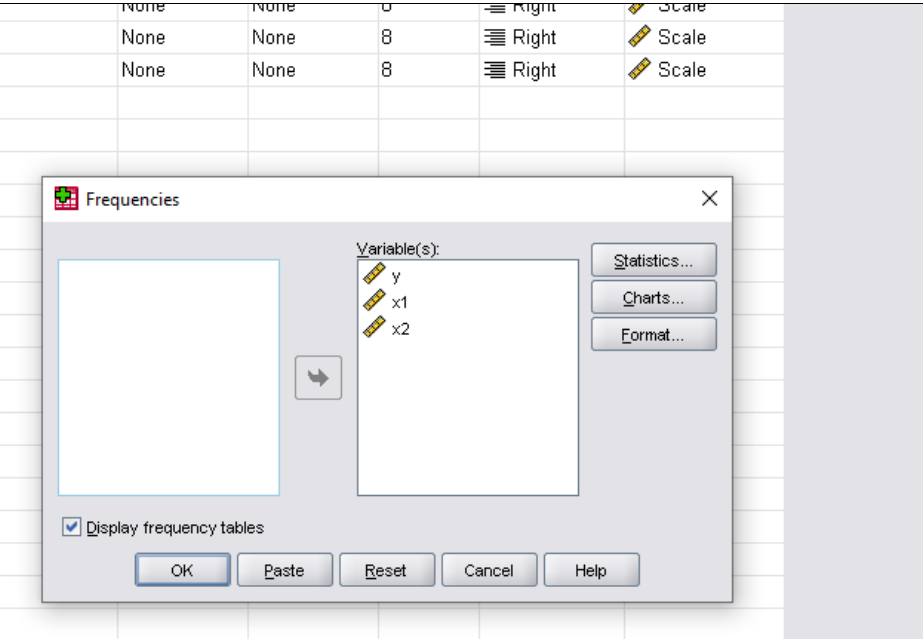
إشراف

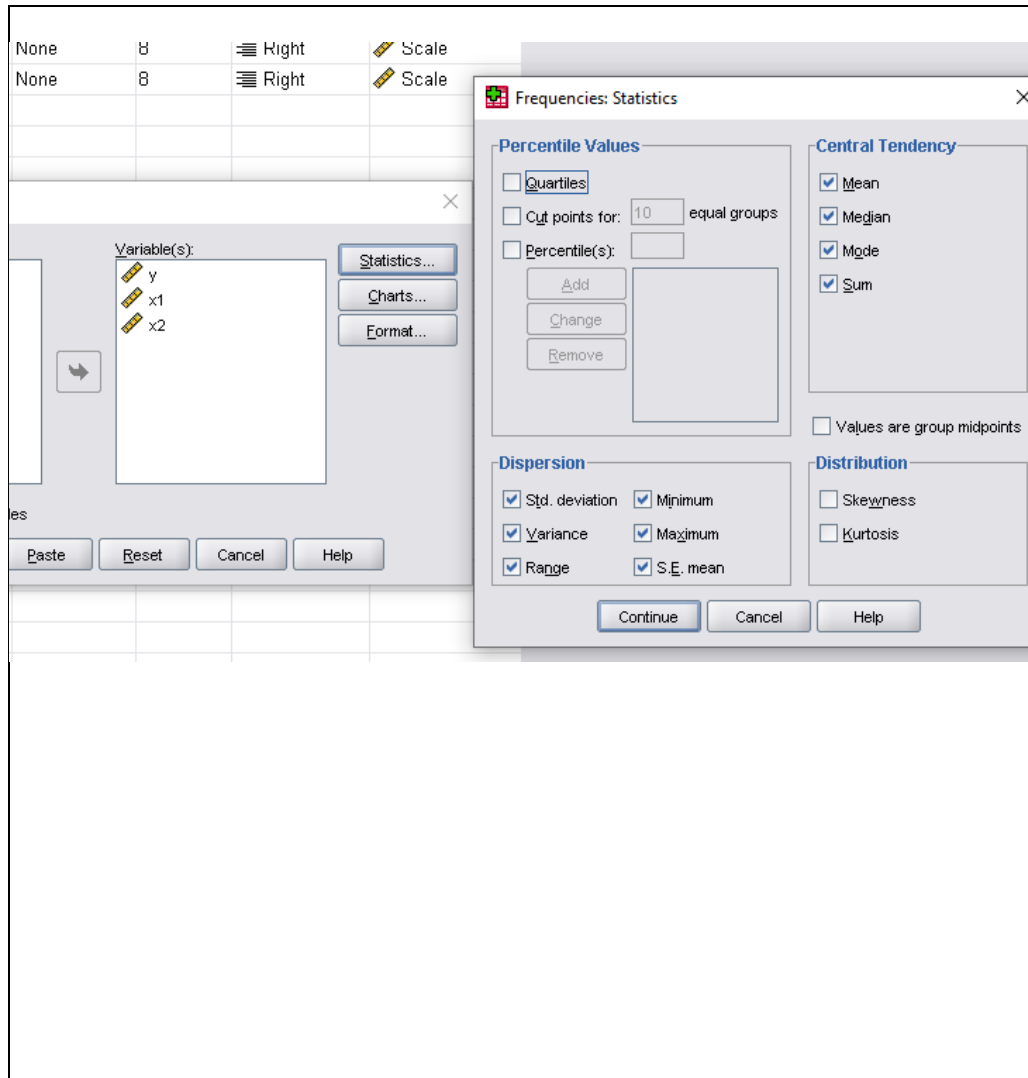
د. أميرة جادو

عضو هيئة التدريس- كلية الإدارة- جامعة ميداوون

الفصل الدراسي الثاني- ٢٠٢٤

تمثلت الخطوات العملية وطريقة الحصول على مقاييس النزعة المركزية والتشتت للبيانات التالية لثلاث متغيرات باستخدام البرنامج الإحصائي SPSS فيما يلي:

|  <table> <tr> <th></th> <th>Name</th> <th>Type</th> <th>Width</th> <th>Decimals</th> <th>Label</th> <th>Values</th> <th>Missing</th> <th>Columns</th> <th>Align</th> <th>Measure</th> </tr> <tr> <td>1</td> <td>y</td> <td>Numeric</td> <td>8</td> <td>2</td> <td></td> <td>None</td> <td>None</td> <td>8</td> <td>Right</td> <td>Scale</td> </tr> <tr> <td>2</td> <td>x1</td> <td>Numeric</td> <td>8</td> <td>2</td> <td></td> <td>None</td> <td>None</td> <td>8</td> <td>Right</td> <td>Scale</td> </tr> <tr> <td>3</td> <td>x2</td> <td>Numeric</td> <td>8</td> <td>2</td> <td></td> <td>None</td> <td>None</td> <td>8</td> <td>Right</td> <td>Scale</td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> |                                                                                                                       | Name    | Type  | Width    | Decimals | Label  | Values  | Missing | Columns | Align   | Measure | 1 | y | Numeric | 8 | 2 |  | None | None | 8 | Right | Scale | 2 | x1 | Numeric | 8 | 2 |  | None | None | 8 | Right | Scale | 3 | x2 | Numeric | 8 | 2 |  | None | None | 8 | Right | Scale | 4 |  |  |  |  |  |  |  |  |  |  | <p><b>الخطوة الأولى:</b><br/>إدخال البيانات على البرنامج الإحصائي spss</p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|---------|-------|----------|----------|--------|---------|---------|---------|---------|---------|---|---|---------|---|---|--|------|------|---|-------|-------|---|----|---------|---|---|--|------|------|---|-------|-------|---|----|---------|---|---|--|------|------|---|-------|-------|---|--|--|--|--|--|--|--|--|--|--|----------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Name                                                                                                                  | Type    | Width | Decimals | Label    | Values | Missing | Columns | Align   | Measure |         |   |   |         |   |   |  |      |      |   |       |       |   |    |         |   |   |  |      |      |   |       |       |   |    |         |   |   |  |      |      |   |       |       |   |  |  |  |  |  |  |  |  |  |  |                                                                            |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | y                                                                                                                     | Numeric | 8     | 2        |          | None   | None    | 8       | Right   | Scale   |         |   |   |         |   |   |  |      |      |   |       |       |   |    |         |   |   |  |      |      |   |       |       |   |    |         |   |   |  |      |      |   |       |       |   |  |  |  |  |  |  |  |  |  |  |                                                                            |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | x1                                                                                                                    | Numeric | 8     | 2        |          | None   | None    | 8       | Right   | Scale   |         |   |   |         |   |   |  |      |      |   |       |       |   |    |         |   |   |  |      |      |   |       |       |   |    |         |   |   |  |      |      |   |       |       |   |  |  |  |  |  |  |  |  |  |  |                                                                            |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | x2                                                                                                                    | Numeric | 8     | 2        |          | None   | None    | 8       | Right   | Scale   |         |   |   |         |   |   |  |      |      |   |       |       |   |    |         |   |   |  |      |      |   |       |       |   |    |         |   |   |  |      |      |   |       |       |   |  |  |  |  |  |  |  |  |  |  |                                                                            |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                       |         |       |          |          |        |         |         |         |         |         |   |   |         |   |   |  |      |      |   |       |       |   |    |         |   |   |  |      |      |   |       |       |   |    |         |   |   |  |      |      |   |       |       |   |  |  |  |  |  |  |  |  |  |  |                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <p><b>الخطوة الثانية:</b><br/>نضغط على Analyse ثم Descriptive Statistics ثم Frequencies</p>                           |         |       |          |          |        |         |         |         |         |         |   |   |         |   |   |  |      |      |   |       |       |   |    |         |   |   |  |      |      |   |       |       |   |    |         |   |   |  |      |      |   |       |       |   |  |  |  |  |  |  |  |  |  |  |                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <p><b>الخطوة الثالثة:</b><br/>نقل جميع المتغيرات إلى خانة Variables عندما تظهر النافذة الجديدة بعنوان Frequencies</p> |         |       |          |          |        |         |         |         |         |         |   |   |         |   |   |  |      |      |   |       |       |   |    |         |   |   |  |      |      |   |       |       |   |    |         |   |   |  |      |      |   |       |       |   |  |  |  |  |  |  |  |  |  |  |                                                                            |



الخطوة  
الرابعة:  
الضغط على  
الأيقونة على  
اليسار باسم  
Statistics  
فتظهر نافذة  
جديدة  
تتضمن  
مقاييس  
المنزعة  
المركزية  
Central  
Tendency  
والتشتت  
Dispersion  
، ثم نقوم  
بالترميز  
على كافة  
هذه المقاييس  
ثم الضغط  
على Ok

- Log
- Frequencies
  - Title
  - Notes
  - Statistics
  - Frequency Table
    - Title
    - y
    - x1
    - x2

## Frequencies

|                    |         | Statistics            |                     |                       |
|--------------------|---------|-----------------------|---------------------|-----------------------|
|                    |         | y                     | x1                  | x2                    |
| N                  | Valid   | 15                    | 15                  | 15                    |
|                    | Missing | 0                     | 0                   | 0                     |
| Mean               |         | 24735.3333            | 287.3467            | 25506.6333            |
| Std. Error of Mean |         | 1258.50618            | 3.82304             | 1894.01318            |
| Median             |         | 26465.8000            | 288.1000            | 23445.2000            |
| Mode               |         | 16607.70 <sup>a</sup> | 267.00 <sup>a</sup> | 17803.70 <sup>a</sup> |
| Std. Deviation     |         | 4874.17349            | 14.80656            | 7335.48150            |
| Variance           |         | 2.376E7               | 219.234             | 5.381E7               |
| Range              |         | 14928.10              | 40.50               | 23990.60              |
| Minimum            |         | 16607.70              | 267.00              | 17803.70              |
| Maximum            |         | 31535.80              | 307.50              | 41794.30              |
| Sum                |         | 371030.00             | 4310.20             | 382599.50             |

a. Multiple modes exist. The smallest value is shown

## Frequency Table

|       |          | y         |         |               |                    |
|-------|----------|-----------|---------|---------------|--------------------|
|       |          | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | 16607.70 | 1         | 6.7     | 6.7           | 6.7                |
|       | 17511.30 | 1         | 6.7     | 6.7           | 13.3               |
|       | 20171.20 | 1         | 6.7     | 6.7           | 20.0               |
|       | 20406.00 | 1         | 6.7     | 6.7           | 26.7               |
|       | 20831.60 | 1         | 6.7     | 6.7           | 33.3               |
|       | 20932.90 | 1         | 6.7     | 6.7           | 40.0               |
|       | 24806.30 | 1         | 6.7     | 6.7           | 46.7               |
|       | 26465.80 | 1         | 6.7     | 6.7           | 53.3               |

س

## Frequencies

| Notes                  |                                |                                                                                                                                          |
|------------------------|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Output Created         |                                | 16-Nov-2024 08:36:25                                                                                                                     |
| Comments               |                                |                                                                                                                                          |
| Input                  | Data                           |                                                                                                                                          |
|                        | Active Dataset                 | DataSet0                                                                                                                                 |
|                        | Filter                         | <none>                                                                                                                                   |
|                        | Weight                         | <none>                                                                                                                                   |
|                        | Split File                     | <none>                                                                                                                                   |
|                        | N of Rows in Working Data File | 15                                                                                                                                       |
| Missing Value Handling | Definition of Missing          | User-defined missing values are treated as missing.                                                                                      |
|                        | Cases Used                     | Statistics are based on all cases with valid data.                                                                                       |
| Syntax                 |                                | FREQUENCIES VARIABLES=y x1 x2<br>/STATISTICS=STDDEV VARIANCE<br>RANGE MINIMUM MAXIMUM SEMEAN<br>MEAN MEDIAN MODE SUM<br>/ORDER=ANALYSIS. |
| Resources              | Processor Time                 | 0:00:00.000                                                                                                                              |
|                        | Elapsed Time                   | 0:00:00.007                                                                                                                              |

| Statistics         |         |                       |                     |                       |
|--------------------|---------|-----------------------|---------------------|-----------------------|
|                    |         | y                     | x1                  | x2                    |
| N                  | Valid   | 15                    | 15                  | 15                    |
|                    | Missing | 0                     | 0                   | 0                     |
| Mean               |         | 24735.3333            | 287.3467            | 25506.6333            |
| Std. Error of Mean |         | 1258.50618            | 3.82304             | 1894.01318            |
| Median             |         | 26465.8000            | 288.1000            | 23445.2000            |
| Mode               |         | 16607.70 <sup>a</sup> | 267.00 <sup>a</sup> | 17803.70 <sup>a</sup> |
| Std. Deviation     |         | 4874.17349            | 14.80656            | 7335.48150            |
| Variance           |         | 2.376E7               | 219.234             | 5.381E7               |
| Range              |         | 14928.10              | 40.50               | 23990.60              |
| Minimum            |         | 16607.70              | 267.00              | 17803.70              |
| Maximum            |         | 31535.80              | 307.50              | 41794.30              |
| Sum                |         | 371030.00             | 4310.20             | 382599.50             |

a. Multiple modes exist. The smallest value is shown

|                                                  |
|--------------------------------------------------|
| مقاييس النزعة<br>Central<br>المركزية<br>Tendency |
| التشتت<br>Dispersion                             |

## Frequency Table

|       |          | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|----------|-----------|---------|---------------|--------------------|
| Valid | 16607.70 | 1         | 6.7     | 6.7           | 6.7                |
|       | 17511.30 | 1         | 6.7     | 6.7           | 13.3               |
|       | 20171.20 | 1         | 6.7     | 6.7           | 20.0               |
|       | 20406.00 | 1         | 6.7     | 6.7           | 26.7               |
|       | 20831.60 | 1         | 6.7     | 6.7           | 33.3               |
|       | 20932.90 | 1         | 6.7     | 6.7           | 40.0               |
|       | 24806.30 | 1         | 6.7     | 6.7           | 46.7               |
|       | 26465.80 | 1         | 6.7     | 6.7           | 53.3               |
|       | 27403.00 | 1         | 6.7     | 6.7           | 60.0               |
|       | 27508.20 | 1         | 6.7     | 6.7           | 66.7               |
|       | 28628.70 | 1         | 6.7     | 6.7           | 73.3               |
|       | 29035.50 | 1         | 6.7     | 6.7           | 80.0               |
|       | 29281.50 | 1         | 6.7     | 6.7           | 86.7               |
|       | 29904.50 | 1         | 6.7     | 6.7           | 93.3               |
|       | 31535.80 | 1         | 6.7     | 6.7           | 100.0              |
| Total |          | 15        | 100.0   | 100.0         |                    |

x1

|       |        | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|--------|-----------|---------|---------------|--------------------|
| Valid | 267.00 | 1         | 6.7     | 6.7           | 6.7                |
|       | 267.80 | 1         | 6.7     | 6.7           | 13.3               |
|       | 269.70 | 1         | 6.7     | 6.7           | 20.0               |
|       | 274.40 | 1         | 6.7     | 6.7           | 26.7               |
|       | 275.00 | 1         | 6.7     | 6.7           | 33.3               |
|       | 275.50 | 1         | 6.7     | 6.7           | 40.0               |
|       | 283.00 | 1         | 6.7     | 6.7           | 46.7               |
|       | 288.10 | 1         | 6.7     | 6.7           | 53.3               |
|       | 295.50 | 1         | 6.7     | 6.7           | 60.0               |
|       | 298.60 | 1         | 6.7     | 6.7           | 66.7               |
|       | 299.00 | 1         | 6.7     | 6.7           | 73.3               |
|       | 300.70 | 1         | 6.7     | 6.7           | 80.0               |
|       | 303.70 | 1         | 6.7     | 6.7           | 86.7               |
|       | 304.70 | 1         | 6.7     | 6.7           | 93.3               |
|       | 307.50 | 1         | 6.7     | 6.7           | 100.0              |
| Total |        | 15        | 100.0   | 100.0         |                    |

x2

|       |          | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|----------|-----------|---------|---------------|--------------------|
| Valid | 17803.70 | 1         | 6.7     | 6.7           | 6.7                |
|       | 18096.80 | 1         | 6.7     | 6.7           | 13.3               |
|       | 18271.80 | 1         | 6.7     | 6.7           | 20.0               |
|       | 19167.30 | 1         | 6.7     | 6.7           | 26.7               |
|       | 19647.60 | 1         | 6.7     | 6.7           | 33.3               |
|       | 20803.50 | 1         | 6.7     | 6.7           | 40.0               |
|       | 22076.60 | 1         | 6.7     | 6.7           | 46.7               |
|       | 23445.20 | 1         | 6.7     | 6.7           | 53.3               |
|       | 24939.00 | 1         | 6.7     | 6.7           | 60.0               |
|       | 26713.70 | 1         | 6.7     | 6.7           | 66.7               |
|       | 29957.80 | 1         | 6.7     | 6.7           | 73.3               |
|       | 31585.90 | 1         | 6.7     | 6.7           | 80.0               |
|       | 33474.50 | 1         | 6.7     | 6.7           | 86.7               |
|       | 34821.80 | 1         | 6.7     | 6.7           | 93.3               |
|       | 41794.30 | 1         | 6.7     | 6.7           | 100.0              |
| Total |          | 15        | 100.0   | 100.0         |                    |