# Panduan Metodologi Penelitian Psikologi: SPSS: Psikometri

Preface

Psikometri untuk tahun 2016 menggunakan 2 program yaitu sofware SPSS dan sofware R. Pada tahap ini saya akan membantu menganalisis skala dengan memfokuskan pada sofware SPSS versi 21.

Berikut ini saya sampaikan beberapa langkah-langkah dalam melakukan analisis skala dengan menggunakan program sofware SPSS.

- 1. Buka program Spss dan data Exel
- 2. Copy data Exel



#### 3. Paste di program SPSS

|    | VAR00001 | VAR00002 | VAR00003 | VAR00004 | VAR00005 | VARCOOOS | VAR00007 |
|----|----------|----------|----------|----------|----------|----------|----------|
| 1  | 3        | 1        | 3        | 1        | 2        | 1        |          |
| 2  | 1        | 1        | 4        | 1        | 2        | Э        |          |
| 3  | 4        | 4        | 4        | 4        | 1        | 2        |          |
| 4  | 1        | 4        | 4        | 4        | 4        | 4        |          |
| 5  | 1        | 1        | 4        | 3        | 4        | 4        |          |
| 6  | 3        | 3        | 3        | 2        | 2        | 4        |          |
| 1  | 4        | 4        | 4        | 4        | 2        | 4        |          |
| 0  | 4        | 1        | 3        | Э        | 2        | 1        |          |
| 9  | 4        | 4        | 4        | 4        | 2        | 3        |          |
| 10 | 4        | 4        | 4        | 3        | 1        | 4        |          |
| 11 | 3        | 4        | 4        | 4        | 4        | 3        |          |
| 12 | 4        | 2        | 4        | 4        | 2        | 3        |          |
| 13 | 3        | 2        | 3        | 3        | 1        | 3        |          |
| 14 | 3        | 3        | 3        | Э        | 2        | 1        |          |
| 15 | 3        | 2        | 4        | Э        | 1        | Э        |          |
| 15 | 3        | 1        | 3        | 2        | 1        | 4        |          |
| 17 | 3        | 4        | 4        | 3        | 1.1      | 3        |          |
| 18 | 4        | 4        | 3        | 3        | 14       | 3        |          |
| 19 | 3        | 2        | 2        | З        | 2        | 4        |          |
| 20 | 4        | 4        | 3        | 1        | 1        | 1        |          |
| 21 | 4        | 1        | 4        | Э        | 1        | 1        |          |
| 22 | 3        | 3        | 4        | 4        | 2        | 3        |          |
| ,  | 1        |          |          | -        |          |          |          |

Bagimana cara mengubah tulisan VAR00001 menjadi Aitem01

1. Klik variabel view kemudian hapus tulisan VAR0001 menjadi Aitem1

| Edit | <u>V</u> iew <u>D</u> ata | Transform | Analyze Di   | rect |
|------|---------------------------|-----------|--------------|------|
|      |                           |           | <b>&gt; </b> |      |
|      | Name                      | Туре      | Width        |      |
| 1    | Aitem1                    | Numeric   | 8            | (    |
| 2    | VAR00002                  | Numeric   | 8            | 1    |
| 3    | VAR00003                  | Numeric   | 8            | (    |
| 4    | VAR00004                  | Numeric   | 8            | (    |
| 5    | VAR00005                  | Numeric   | 8            | (    |
| 6    | VAR00006                  | Numeric   | 8            | (    |
| 7    | VAR00007                  | Numeric   | 8            | (    |
|      |                           |           |              |      |

# UJI VALIDITAS

1. Klik Analize-Correlate-Bivariate

| ile Edit        | View Data | Iransform | Analyze Direct Marketing Gr                 | aph         | s Ubitie  | s Add-ons | Window Hel | p       |        |           |        |        |         |          |                 |
|-----------------|-----------|-----------|---|-------------|-----------|-----------|------------|---------|--------|-----------|--------|--------|---------|----------|-----------------|
| <del>)</del>  - |           | 5         | Regords<br>Descriptive Statistics<br>Lables | 5<br>7<br>8 |           |           | 43 -       |         |        | <u>16</u> |        |        |         | Visible  | 32 of 32 Varial |
|                 | ATLM15    | ALLM15    | Co <u>m</u> pare Means                      |             | ILM19     | ALLM20    | AHLM21     | AIT_M22 | ATLM23 | ALLM24    | ALLM25 | ALLM26 | IctalAJ | VAR00029 | lotalA          |
| 1               | 2         |           | General Linear Model                        | ,           | 3         | 1         | 59         | 12      | 14     | 13        | 14     | 6      | 59      | 12       | 14              |
| 2               | 2         |           | Generalized Linear Models                   |             | 4         | 2         | 67         | 12      | 15     | 16        | 16     | 8      | 67      | 12       | 15              |
| 3               | 1         |           | Mixed Models                                |             | J         | 2         | L9         | 12      | 1J     | 14        | 14     | 6      | 69      | 12       | 13              |
| 4               | 2         |           | Correlate                                   |             |           | ari sto   | 63         | 11      | 13     | 15        | 13     | 11     | 63      | 11       | 13              |
| 5               | 4         |           | Regression                                  |             |           | index.    | 68         | 11      | 10     | 15        | 12     | 10     | 58      | 11       | 10              |
| 6               | 2         |           | Loginear                                    |             | Part Part | ta'       | 56         | 13      | 13     | 12        | 11     | 7      | 56      | 13       | 13              |
| 7               | 2         |           | Naural Networks                             |             | S Dist    | tances    | 70         | 16      | 15     | 16        | 16     | 7      | 70      | 16       | 16              |
| 8               | 2         |           | Consile                                     |             | - 3       |           | 61         | 14      | 13     | 14        | 13     | 7      | 61      | 14       | 13              |
| 9               | 2         |           | Underly Underly                             |             | 3         | 2         | 61         | 14      | 14     | 13        | 13     | 7      | 61      | 14       | 14              |
| 10              | 2         |           | Dimension Reduction                         |             | 4         | 2         | 65         | 15      | 15     | 15        | 14     | 6      | 65      | 15       | 15              |
| 11              | 4         |           | araie                                       |             | )         | )         | 67         | 12      | 13     | 14        | 14     | 14     | 67      | 12       | 13              |
| 12              | 2         |           | Nooperametric lease                         | 1           | J         | 1         | 13         | 13      | U      | - 11      | 14     | 1      | 63      | 13       | 8               |

2. Masukan Aitem Sesuai dengan Blue Print dan jangan lupa Total di setiap Aspek

| ITEM18 AITEM19 AITEM20 TotalAll TotalA TotalB | Tota C | TotalD | TotalE |
|---|--------|--------|--------|
|   | 13     | 14     | 6      |
| Bivariate Correlations                        | 15     | 16     | 8      |
| Variables                                     | 14     | 14     | 6      |
| AITEM1  | 15     | 13     | 11     |
| AITEM18                                       | 15     | 12     | 10     |
| AITEM19                                       | 12     | 11     | 7      |
| TotalAI                                       | 15     | 16     | 7      |
|   | 14     | /13    | 1      |
| J TotalC                                      | 13     | 13     | 7      |
|   | 15     | 14     | 6      |
|   | 14     | 14     | 14     |
| Correlation Coefficients                      | 11     | 14     | 7      |
| Fearson Kendali's lau-b Speannan              | 12     | 13     | 4      |
| - Test of Significance                        | 15     | 12     | 7      |
| () Two tailed () One-tailed                   | 14     | 13     | 6      |
|   | 14     | 8      | 6      |
| Flag significant correlations                 | 15     | 14     | 4      |
| OK Easte Reset Cancel Help                    | 12     | 12     | G      |
| Corr Laste Treser Carter Help                 | 13     | 12     | 7      |

3. Kemudian tekan oke, begitu juga untuk aspek selanjutnya

|         |                     | Correl | lations |         |         |        |
|---------|---------------------|--------|---------|---------|---------|--------|
|         |                     | AITEM1 | AITEM6  | AITEM11 | AITEM16 | TotalA |
| AITEM1  | Pearson Correlation | 1      | ,052    | ,186    | -,130   | ,640   |
|         | Sig. (2-tailed)     |        | .702    | .169    | .341    | ,000   |
|         | Ν                   | 56     | 56      | 56      | 56      | 56     |
| AITEM6  | Pearson Correlation | ,052   | 1       | ,023    | -,174   | 471    |
|         | Sig. (2-tailed)     | ,702   |         | ,868    | ,200    | .000   |
|         | N                   | 56     | 56      | 56      | 56      | 56     |
| AITEM11 | Pearson Correlation | ,106   | ,023    | 1       | ,200    | ,633   |
|         | Sig. (2-tailed)     | ,169   | ,868    |         | ,037    | ,000   |
|         | Ν                   | 56     | 56      | 56      | 56      | 56     |
| AITEM16 | Pearson Correlation | -,130  | -,174   | ,280    | 1       | 339    |
|         | Sig. (2-tailed)     | ,341   | ,200    | ,037    |         | ,011   |
|         | N                   | 56     | 56      | 56      | 56      | 56     |
| TotalA  | Pearson Correlation | ,640   | ,471    | ,633    | ,339    | 1      |
|         | Sig. (2-tailed)     | ,000   | ,000    | ,000    | ,011    |        |
|         | N                   | 56     | 56      | 56      | 56      | 56     |

#### \*Dilampirkan

#### Intepretasi

- 1. Jika nilai R pearson >0,300 maka aitem di nyatakan Valid
- 2. Nilai Sig <0,05

# **UJI RELIABILITAS**

1. Klik Analyze-Scale-Reliability Analysis

| here a | Analyze Direct Marketing Gr<br>Reports<br>Descriptive Statistics  | P Dilitic   |   |  |  | •  |  |  |
|--------|---|---|---|--|--|--|--|--|
| IIEM16 | Lables<br>Compare Means<br><u>C</u> eneral Linear Model<br>Generalized Linear Models<br>Miged Models<br>Correlate<br><u>Regression</u><br>Lgqlineur<br>Neural Networks<br>Classify<br>Dimension Koduction | EM18<br>EM18<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A   | ATTEM19<br>3<br>4<br>3<br>3<br>3<br>3<br>3<br>4<br>3<br>3<br>3<br>3<br>3<br>3                                       | ATTEM20<br>1<br>2<br>2<br>4<br>1<br>1<br>1<br>1<br>2<br>2<br>1<br>1<br>2<br>2<br>2 | I otal/All<br>59<br>67<br>59<br>63<br>63<br>63<br>64<br>64<br>61<br>61 | I otalA<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 |  |  |
|        | Scale   | P Rel   | a biblidy Analysis  | 2  | 65   | 1  |  |  |
|        | <u>N</u> onparametric Tests<br>Forecasting<br><u>S</u> urvival  | Multi | Multidimensional Unfolding (PREFSCAL)     Multidimensional Scaling (PROXSCAL)     Multidimensional Scaling (ALSCAL) |  |  |  |  |  |
|        | Multiple Response<br>Missing Value Analysis   | 4   | 3   | 1<br>2   | 55<br>48   | 1  |  |  |
|        | Multiple Imputation<br>Complex Samples  | F 4   | 3   | 1  | 59<br>58   | 1  |  |  |
|        | Quality Control   | ► 4   | 3   | 2  | 64<br>62   | 1  |  |  |
|        | ROC Culve   |   | 4   |  | 52   |  |  |  |

- 2. Masukan Aitem sesuai dengan Blue Print tanpa Total lalu klik Ok
  - \*Aitem yang valid saja

|  | lems. | Statistics. |
|--|-------|-------------|
| АТЕИ2           Д. МІЕИЗ           Д. МІЕИЗ           Д. АТЕИЗ           Д. АТЕИЗ |       | -           |
| lodel: Alpha   | *     |             |

# Intepretasi

Disini teradapat **3 kaidah**, peneliti bebas mau memakai yang mana sesuai hasil analisis (harus konsisten jika memilih kaidah)

# A. Kaidah Pertama

- 1. Jika nilai Cronbach Alpha>0,700 di nyatakan Reliabel
- 2. Nilai Cronbach Alpha<0,700 di nyatakan Tidak Reliabel

## B. Kaidah Kedua

- 1. Jika nilai Cronbach Alpha>0,600 di nyatakan Reliabel
- 2. Nilai Cronbach Alpha<0,600 di nyatakan Tidak Reliabel

## C. Kaidah Ketiga

- 1. Jika nilai Cronbach Alpha>0,500 di nyatakan Reliabel
- 2. Nilai Cronbach Alpha<0,500 di nyatakan Tidak Reliabel

#### **Reliability Statistics**

| Cronbach's<br>Alpha | N of Items |
|---------------------|------------|
| ,119                | 4          |

#### \*Dilampirkan

#### Mencari Reliabilitas Total

- 1. Klik Analize-Scale-Reliability Analysis
- 2. Masukan semua aitem kecuali total, (Aitem yang valid saja) lalu klik ok

|   | Items:   | Statistics |
|---|--|------------|
| TotalAll TotalA TotalA TotalB TotalC TotalD TotalD TotalE | <ul> <li>AITEM1</li> <li>AITEM2</li> <li>AITEM3</li> <li>AITEM4</li> <li>AITEM5</li> <li>AITEM6</li> <li>AITEM7</li> <li>AITEM8</li> <li>AITEM9</li> </ul> |            |
| Model: Alpha  | ¥  |            |

# **Reliability Statistics**

| Cronbach's<br>Alpha | N of Items |
|---------------------|------------|
| ,535                | 19         |

\*Dilampirkan

# **UJI DESKRIPTIF**

 Masukan nilai total variabel 1 dan Variabel 2 atau skala 1 dan skala 2 (Example: Kepuasan kerja dan komitmen Afektif)

| Braphs  | Utilities | B Add- <u>o</u> ns | <u></u> 1 |
|---------|-----------|--------------------|-----------|
| 4-3     | *         |                    |           |
| -       |           |                    |           |
| Kepusan | kek       | comitmenA          | 12        |
|         | 59        | 66                 |           |
|         | 67        | 69                 |           |
|         | 59        | 62                 |           |
|         | 63        | 58                 |           |
|         | 58        | 54                 |           |
|         | 56        | 56                 |           |
|         | 70        | 72                 |           |
|         | 61        | 61                 |           |
|         | 61        | 57                 |           |
|         | 65        | 68                 |           |
|         | 67        | 60                 |           |
|         | 63        | 69                 |           |
|         | 49        | 56                 |           |
|         | 69        | 56                 |           |
|         | 66        | 61                 |           |
|         | 48        | 41                 |           |
|         | 50        | C.C.               |           |

2. Klik Analize-Descriptive statistics-Descriptives

| ann | Anadyze | Direct Markeling       | Graphes  | Ultilitices   | Add ones | Wi |
|-----|---------|------------------------|----------|---------------|----------|----|
| -   | Reg     | orts                   | P        | ***           |          |    |
| 0.0 | Des     | criptive Statistics    | *        | EE Freque     | encies   |    |
|     | Tab     | len                    | - F      | La Deser      | inlives  |    |
| alC | Con     | npare Means            | P        | -O- Explor    | •        |    |
| 1   | Gen     | eral Linear Model      | - F      | Crock         | tabe     |    |
| 1   | Gen     | renalized Linear Mod   | ala 🕨    |               | aus      |    |
| 1   | Mixe    | ed Models              |          | E Homo        |          |    |
| 1   | Cor     | relate                 |          |               | ots      |    |
| 1   | Reg     | ression                | r L      | <u>Q</u> -Q P | lots     |    |
|     | Log     | linear                 | - H      | 56            | 66       |    |
|     | Neu     | iral Net <u>w</u> orks |          | 70            | 72       |    |
| 1   | Clas    | and fy                 | <b>F</b> | 61            | 61       |    |
|     | Dim     | ension Reduction       | P        | 61            | 5/       |    |
|     | Sca     | le                     |          | 65            | 68       |    |
|     | Nor     | parametric Tests       |          | 67            | 60       |    |
| -   | Fore    | ecasting               |          | 40            | 56       |    |
|     | Sun     | vival                  |          | 69            | 56       |    |
| 1   | Mul     | lipte Response         | b.       | 55            | 61       |    |
| 1   | Miss.   | sing Value Analysis    |          | 48            | 41       |    |
| 1   | Mul     | lipte Imputation       | 16 E     | 59            | 65       |    |
| 1   | Con     | npiex Samples          | P-       | 58            | 63       |    |
| 1   | Qua     | ality Control          | E.       | 54            | 62       |    |
| 1   | ROC     | Curve                  |          | 62            | 63       |    |
|     |         | 411                    |          |               |          |    |

 Masuka Nilai Total keseluruhan Variabel (Ex: Kepuasan kerja dan Komitmen Afektif), kemudian Klik OK



|                            | D                     | escriptive S             | atistics            |        |                        |             |
|----------------------------|-----------------------|--------------------------|---------------------|--------|------------------------|-------------|
|                            | Ν                     | Minimum                  | Maximum             | Mean   | Std. Devia             | tion        |
| kepuasankerja              | 56                    | 48                       | 70                  | 59,79  | 3,                     | 944         |
| komitmenafektif            | 56                    | 41                       | 72                  | 61,05  | 4,                     | 677         |
| Valid N (listwise)         | 56                    | 1997 - C.                |                     |        |                        |             |
| Nilamnirkan                |                       |                          |                     |        |                        |             |
| латри кан                  |                       |                          |                     |        |                        |             |
| Variabel                   | SD                    | Mean                     | SD                  |        | Mean                   | Status      |
| Variabel                   | SD<br>Empirik         | Mean<br>Empiril          | SD<br>& Hipote      | etik E | Mean<br>lipotetik      | Status      |
| Variabel<br>Kepuasan Kerja | SD<br>Empirik<br>3.94 | Mean<br>Empiril<br>59.79 | SD<br>x Hipoto<br>? | etik H | Mean<br>lipotetik<br>? | Status<br>? |

Cara mencari mean Hipotetik dan SD hipotetik, berikut caranya

a. Mean Hipotetik

$$\mu = \frac{1}{2} (I_{\max} + I_{\min}) \sum k$$

Keterangan: -  $\mu$  : Rerata Hipotetik

-  $I_{\text{max}}$  : skor maksimal aitem

- I<sub>min</sub> : skor minimal aitem

PENTING  $\sum k$ : jumlah aitem (jumlah aitem yang valid saja)

b. SD Hipotetik

$$\sigma = \frac{1}{6} (X_{\max} - X_{\min})$$

Keterangan: -  $\sigma$  : SD Hipotetik

 $X_{\text{max}}$ : Skor maksimal Subjek

X<sub>min</sub>: Skor minimal Subjek

Catatan:

\*Skor maksimal subjek adalah nilai yang didapat jika subjek menjawab pada rentang tertinggi semua. (contoh: menjawab SANGAT SETUJU semua, pada skala yang aitemnya Favourable).
\*\*Skor minimal subjek adalah nilai yang didapat jika menjawab pada rentang terendah semua.

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| Variabel         | SD<br>Empirik | Mean<br>Empirik | SD<br>Hipotetik | Mean<br>Hipotetik | Status |
|------------------|---------------|-----------------|-----------------|-------------------|--------|
| Kepuasan Kerja   | 3.94          | 59.79           | 10              | 50                | ?      |
| Komitmen Afektif | 4.67          | 61,05           | 9               | 45                | ?      |

 Kaidah untuk mendapatkan Status pada Mean Empirik dan Mean Hipotetik adalah sebagai berikut:

- Apabila nilai Mean Empirik > Mean Hipotetik, maka statusnya Tinggi.

- Apabila nilai Mean Empirik < Mean Hipotetik, maka statusnya Rendah.

Untuk pelaporannya, Anda dapat melihat contoh dibawah ini:

| Variabel         | SD<br>Empirik | Mean<br>Empirik | SD<br>Hipotetik | Mean<br>Hipotetik | Status |
|------------------|---------------|-----------------|-----------------|-------------------|--------|
| Kepuasan Kerja   | 3.94          | 59.79           | 10              | 50                | Tinggi |
| Komitmen Afektif | 4.67          | 61,05           | 9               | 45                | Tinggi |

Cara mencari kategorisasi skor

#### Kategorisasi Skor Skala Kepuasan Kerja

| Interval Kecenderungan              | Skor  | Kategori      | F | Persent. |
|-------------------------------------|-------|---------------|---|----------|
| X > M + 1.5 SD                      | 65    | Sangat Tinggi | ? | ?        |
| M + 0.5 SD < X < M + 1.5 SD         | 55-64 | Tinggi        | ? | ?        |
| $M - 0.5 \; SD < X < M + 0.5 \; SD$ | 45-54 | Sedang        | ? | ?        |
| M -1.5 SD $< X < M - 0.5$ SD        | 35-44 | Rendah        | ? | ?        |
| $X < M - 1.5 \ SD$                  | 34    | Sangat Rendah | ? | ?        |

Langkah-langkah

 Masukan nilai total keseluruhan Variabel 1 dan Variabel 2 (Ex. Variabel Kepuasan kerja dan komitmen afektif), Copy lalu paste Ke SPSS

|    | Clipboard      | 15             | Font | 5 | Alig |
|----|----------------|----------------|------|---|------|
|    | E25            | + (* fs        | 2    |   |      |
| -  | A              | В              | С    | D | E    |
| 1  | Kepuasan kerja | Komitmen Afekt | if   |   |      |
| 2  | 59             | 66             |      |   |      |
| 3  | 67             | 69             |      |   |      |
| 4  | 59             | 62             |      |   |      |
| 5  | 63             | 58             |      |   |      |
| 6  | 58             | 54             |      |   |      |
| 7  | 56             | 56             |      |   |      |
| 8  | 70             | 72             |      |   |      |
| 9  | 61             | 61             |      |   |      |
| 10 | 61             | 57             |      |   |      |
| 11 | 65             | 68             |      |   |      |
| 12 | 67             | 60             |      |   |      |
| 13 | 53             | 59             |      |   |      |
| 14 | 49             | 56             |      |   |      |
| 15 | 59             | 56             |      |   |      |
| 16 | 55             | 61             |      |   |      |
| 17 | 48             | 41             |      |   |      |
| 10 | 50             | 65             |      |   |      |

2. Maka akan muncul seperti ini

| 🚹 "Untitled: | l [DataSet0] - IBN | / SPSS Statistics   | Data Editor |                       |        |                | -                  | and the state  | tion of the second states | 10  |     |     |     |     |     |                   |
|--------------|--------------------|---------------------|-------------|-----------------------|--------|----------------|--------------------|----------------|---------------------------|-----|-----|-----|-----|-----|-----|-------------------|
| File Edit    | <u>View</u> Data   | Transform A         | nalyze Dire | ect <u>M</u> arketing | Graphs | Utilities Add- | ons <u>W</u> indov | v <u>H</u> elp |                           |     |     |     |     |     |     |                   |
|              |                    |                     | M 🔛         |                       | K      |                | 5                  |                |                           | 646 |     |     |     |     |     |                   |
|              |                    |                     |             |                       |        |                |                    |                |                           |     |     |     |     |     |     | Visible 2 of 2 Va |
|              | kepuasankerj<br>a  | komitmenafe<br>ktif | var         | var                   | var    | VB.            | var                | var            | var                       | var | var | var | var | var | var | VBr               |
| 1            | 59                 | 66                  |             | 1                     |        |                |                    |                |                           |     |     |     |     | 1   |     |                   |
| 2            | 67                 | 69                  |             |                       |        |                |                    |                |                           |     |     |     |     |     |     |                   |
| 3            | 59                 | 62                  |             |                       |        |                |                    |                |                           |     |     |     |     |     |     |                   |
| 4            | 63                 | 58                  |             |                       |        |                |                    |                |                           |     |     |     |     |     |     |                   |
| 5            | 58                 | 54                  |             |                       |        |                |                    |                |                           |     |     |     |     |     |     |                   |
| 6            | 56                 | 56                  |             |                       |        |                |                    |                |                           |     |     |     |     |     |     |                   |
| 7            | 70                 | 72                  |             |                       |        |                |                    |                |                           |     |     |     |     |     |     |                   |
| 8            | 61                 | 61                  |             |                       |        | 1              |                    |                |                           |     |     |     |     |     |     |                   |
| 9            | 61                 | 57                  |             |                       |        |                |                    |                |                           |     |     |     |     |     |     | _                 |
| 10           | 65                 | 68                  |             |                       |        |                |                    |                |                           |     |     |     |     |     |     |                   |
| 11           | 67                 | 60                  |             |                       | 1      |                |                    |                |                           |     |     |     |     |     |     |                   |
| 12           | 53                 | 59                  |             |                       |        |                |                    |                |                           |     |     |     |     |     |     |                   |

## 3. Klik Transfrom-Record into Different Variables

| 🙀 🖞 Intitled I | [DataSet0] - IBM         | M SPSS Statistics Data Editor                                    |              |          | The lot of        | -              | -   |      |     |     |     |     |     |                 | Ň       |
|----------------|--------------------------|--|--------------|----------|-------------------|----------------|-----|------|-----|-----|-----|-----|-----|-----------------|---------|
| El a Edir      | <u>View</u> <u>D</u> eta | Transform Analyze Extend Marketing Graphs                        | <u>U</u> nii | lles Adr | lana <u>M</u> ado | w <u>H</u> elp |     |      |     |     |     |     |     |                 |         |
| ) 🨂 Hi         |                          | Compute Variable     Gount Values within Cases     Shift Values. | ž            |          |                   |                |     | 6 48 |     |     |     |     | Vi  | sible, 2 of 2 V | (ariabl |
|                | kepuasan ker<br>a        | Recede into Same Variables                                       |              | VEII     | vat               | IL.Y           | YUE | vai  | Val | ILY | Yu: | VUI | var | tuv             |         |
| 1              | LS                       | Recode Into Different Variables                                  |              |          |                   |                |     |      |     |     |     |     |     |                 |         |
| 2              | 67                       | Mattomatic Recode  |              |          |                   |                |     |      |     |     |     |     |     |                 |         |
| 3              | 59                       | 👫 Yisual Binning   |              |          |                   |                |     |      |     |     |     |     |     |                 |         |
| 4              | 63                       | 🔀 Optimal Binning  |              |          |                   | 1              |     |      |     |     |     |     |     |                 |         |
| 5              | 58                       | Property Data for Modeling                                       |              |          |                   |                |     |      |     |     |     |     |     |                 |         |
| G              | CC                       | BA Rank Cases  |              |          |                   |                |     |      |     |     |     |     |     |                 |         |
| 7              | 70                       | Date and Time Ward   |              |          |                   |                |     |      |     |     |     |     |     |                 |         |
| 8              | 61                       | E Carda Tara Parina  |              |          |                   | 4              |     |      |     |     |     |     |     |                 |         |
| 9              | 61                       | Colore Interes   |              |          |                   |                |     |      |     |     |     |     |     |                 |         |
| 10             | 66                       | the second comparing values                                      |              |          |                   |                |     |      |     |     |     |     |     |                 |         |
| 11             | 67                       | 💖 Random Number <u>G</u> enerators                               |              |          |                   |                |     |      |     |     |     |     |     |                 |         |
| 12             | 63                       | R in Pending Transforms Cm+C                                     |              |          |                   |                |     |      |     |     |     |     |     |                 |         |
| 13             | 49                       | 56   | <u> </u>     |          |                   |                |     |      |     |     |     |     |     |                 | -       |
| 14             | 19                       | 50   | -            |          |                   | -              |     |      |     |     | -   |     |     |                 | -       |
| 15             | 66                       | 61   |              |          |                   |                |     |      |     |     |     |     |     |                 |         |

4. Masukan salah satu variabel yang ingin kita cari ke kolom sebelah kanan, kemudian pada tabel output variabel, berikan dengan nama (kategorisasi1) dan Label (kategorisasi1), kemudian klik "Change". \*Catatan: untuk variabel berikutnya menjadi kategorisasi 2, 3, dst.

| Fie Edit     | View Data Tra        | ansform Analyze Dired | Marketing Graphs Utilities Add-ons Window Help |             |      |
|--------------|----------------------|-----------------------|--|-------------|------|
| <b>e</b> 6   |                      | 🖛 🛥 🏹                 | L == 11 🐮 🖼 🚍 🕸 🎹 🚮 🕥 🌑 🤏                      |             |      |
| 14 : komitme | nafektif 50          |                       |  | Visible:    | 2 of |
|              | kepuasankerj ku<br>a | mitmenale<br>kot      | Vali vel Vel vel vel vel vel vel vel vel       | var var var | VBI  |
| 1            | 59                   | 66                    |  |             |      |
| 2            | 67                   | 69                    | 🙀 Recode into Different Variables              | X           |      |
| 3            | 59                   | 52                    | At an an U analysis of Coloradian              |             |      |
| 4            | 63                   | 58                    | A komi namafakli Potravankaria                 |             |      |
| 5            | 58                   | 54                    |  |             |      |
| 6            | 55                   | 56                    | kategorisasi 1                                 |             |      |
| 7            | 70                   | 72                    | Label  |             |      |
| 8            | 61                   | 61                    | kate porisasi 1                                |             |      |
| 9            | 61                   | 57                    | Change   |             |      |
| 10           | 65                   | 68                    |  |             |      |
| 11           | 67                   | 60                    |  |             |      |
| 12           | 53                   | 59                    |  |             |      |
| 13           | ×19                  | 56                    | Old and New Values                             |             |      |
| 14           | 69                   | 56                    |  |             |      |
| 15           | 55                   | 61                    | It., (optional case selection condition)       |             |      |
| 16           | 43                   | 41                    |  |             |      |
| 17           | 50                   | 65                    | OK Paste Reset Cancel Help                     |             |      |
| 18           | 53                   | 63                    |  |             |      |
| 19           | 54                   | 62                    |  |             |      |
| 20           | 62                   | 63                    |  |             |      |

5. Kemudian klik old and news values, hingga muncul tabel seperti ini

| ntled1 (DateSet0) - USA | ESPSS Statistics Dz | te I ditor  |   |     |     |     |                |
|-------------------------|---------------------|---|---|-----|-----|-----|----------------|
|                         |                     |   |   |     |     |     |                |
| mitmenatektit 56        |                     | Part in the second s | In Print )                                |     |     | ען  | is bler 2 of 2 |
| kepuasan kerj<br>a      | komitmenale<br>ktif | va Recode into Different Variables: Old and New Values  |   | Val | Val | Val | Vell           |
| 59                      | 66                  | -Old Value  | -New Value                                |     |     |     | 1              |
| 6/                      | 69                  | © <u>V</u> alue.  | ® Value.                                  |     |     |     |                |
| 59                      | 62                  |   | C System-missing                          |     |     |     |                |
| 63                      | 58                  | O System missing  | Copy old value(s)                         |     |     |     |                |
| 58                      | 54                  | O Bystem- or User-missing   |   |     |     |     |                |
| 56                      | 56                  | O Range.  | Ol <u>⊒</u> > New.                        |     |     |     |                |
| 70                      | 72                  |   |   |     |     |     |                |
| 61                      | 61                  | through   | Add                                       |     |     |     |                |
| 61                      | 57                  |   | Change                                    |     |     |     |                |
| 65                      | 68                  | C Range LOWERT brouch value   | Chenge .                                  |     |     |     |                |
| 67                      | 60                  | <b>9</b> ,  | Remove                                    |     |     |     |                |
| 53                      | 59                  | () Passe value trough HIGHERT   |   |     |     |     |                |
| 49                      | 56                  | Gittange, taide tribugin indirecti.   | E Ordendarsitellar uns steinen Widter     |     |     |     |                |
| . 59                    | 56                  |   |   |     |     |     |                |
|                         | 61                  | O Al cinei valces   | Conven numeric scringe to number a (0-=0) |     |     |     |                |
| 48                      | 41                  | Continua  | Cancel Help                               |     |     |     |                |
| 59                      | 65                  |   |   |     |     |     |                |
| 1                       | 63                  |   |   |     |     |     |                |
|                         | 00                  |   |   |     |     |     |                |

 Langkah pertama, klik "Range, value through HIGHEST" kemudian masukan anngka yang terdapat pada skor kategori sangat tinggi, lalu klik pada tabel New Value, dan masukan angka 5, lalu klik "Add"

| Old Value                         | New Value                                   |
|-----------------------------------|---|
| © <u>V</u> alue:                  | Value:                                      |
|                                   | O System-missing                            |
| ◎ <u>S</u> ystem-missing          | © Copy old value(s)                         |
| ◯ System- or <u>u</u> ser-missing |   |
| © Ra <u>n</u> ge:                 | Ol <u>d</u> > New:                          |
|                                   | 65 thru Highest> 5                          |
| through                           | Add   |
|                                   | Change                                      |
| Range, LOWEST through value:      | Remove                                      |
|                                   | (Territoria)                                |
| Range, value through HIGHEST:     |   |
|                                   | Output variables are strings Width: 8       |
| All other values                  | Convert numeric strings to numbers ('5'->5) |

7. klik "Range, kemudian masukan anngka yang terdapat pada skor kategori **Tinggi**, lalu klik pada tabel New Value, dan masukan angka 4, lalu klik "**Add**"

| Did Value                                   | New Value                                   |
|---|---|
| ⊇ <u>V</u> alue:                            | 🔘 Value: 🛃                                  |
|   | © System-missing                            |
| System-missing                              | © Copy old value(s)                         |
| ) System- or <u>u</u> ser-missing<br>Range: | Ol <u>d</u> > New:                          |
| 55  | 65 thru Highest> 5                          |
| through                                     | Add   |
| 64  | Change                                      |
| Range, LOWEST through value:                | Remove                                      |
| Range, value through HIGHEST:               |   |
|   | Output variables are strings Width: 8       |
| All other values                            | Convert numeric strings to numbers ('5'->5) |

8. klik "Range, kemudian masukan anngka yang terdapat pada skor kategori **Sedang**, lalu klik pada tabel New Value, dan masukan angka 3, lalu klik "**Add**"

| Did Value                                   | New Value                                   |
|---|---|
| ∑ <u>V</u> alue:                            | Value: 3                                    |
|   | ◎ System-missing                            |
| System-missing                              | © Copy old value(s)                         |
| ) System- or <u>u</u> ser-missing<br>Range: | Ol <u>d</u> > New:                          |
| 45  | 65 thru Highest> 5                          |
| through                                     | Add 55 thru 64> 4                           |
| 54  | Change                                      |
| Range, LOWEST through value:                | Remove                                      |
| Rang <u>e</u> , value through HIGHEST:      |   |
|   | Output variables are strings Width: 8       |
| All <u>o</u> ther values                    | Convert numeric strings to numbers ('5'->5) |

9. klik "Range, kemudian masukan anngka yang terdapat pada skor kategori **Rendah**, lalu klik pada tabel New Value, dan masukan angka 2, lalu klik "**Add**"

| Old Value                              | New Value                                   |
|--|---|
| © <u>V</u> alue:                       | Value: 2                                    |
|  | © System-missing                            |
| System-missing                         | Copy old value(s)                           |
| System- or <u>u</u> ser-missing        | Ol <u>d</u> > New:                          |
| 25                                     | 65 thru Highest> 5                          |
| 35                                     | 55 thru 64> 4                               |
| through                                | 45 thru 54> 3                               |
| 44                                     | Change                                      |
| Range, LOWEST through value:           | Remove                                      |
| Rang <u>e</u> , value through HIGHEST: |   |
|  | Output variables are strings Width: 8       |
| O All other values                     | Convert numeric strings to numbers ('5'->5) |

 klik "Range, LOWEST through value, kemudian masukan anngka yang terdapat pada skor kategori Sangat Rendah, lalu klik pada tabel New Value, dan masukan angka 1, lalu klik "Add"

| Id Value                          | New Value                                   |
|-----------------------------------|---|
| ∑ <u>V</u> alue:                  | Value: 1                                    |
|                                   | © System-missing                            |
| ∬ <u>S</u> ystem-missing          | Copy old value(s)                           |
| ) System- or <u>u</u> ser-missing |   |
| ) Ra <u>n</u> ge:                 | OI <u>O</u> > New.                          |
|                                   | 55 thru 64> 4                               |
| through                           | Add 45 thru 54> 3                           |
|                                   | Change 35 thru 44> 2                        |
| Range, LOWEST through value:      | Remove                                      |
| 34                                | ( <u>Terrore</u> )                          |
| Range, value through HIGHEST:     |   |
|                                   | Output variables are strings Width: 8       |
| All other values                  | Convert numeric strings to numbers ("5"~>5) |

11. lalu klik continue, sehingga kembali muncul tampilan seperti dibawah ini, kemudian klik OK

| komitmenafektif | Numeric <u>V</u> ariable -> Output Va<br>kepuasankerja> kategorisa | ariable:<br>asi1<br>Name:<br>kategorisasi1<br>Label:<br>kategorisasi1<br>Change |
|-----------------|--|---|
|                 | Old and New Values)  | n condition)  |

12. Kemudian klik variable view, sehingga muncul tampilan seperti di bawah ini

13. Klik value pada kategorisasi1, sehingga muncul tampilan seperti dibawah ini

| Untitled1        | [DataSet0] - [BM         | SPSS Statistic | s Data Editor |                     |           |         | -                           |                     |           |         | e  | mention of Personal State |   |
|------------------|--------------------------|----------------|---------------|---------------------|-----------|---------|-----------------------------|---------------------|-----------|---------|--|---------------------------|---|
| <u>Ele E</u> dit | <u>View</u> <u>D</u> ata | Transform 2    | Analyze Dire  | ct <u>Marketing</u> | Graphs    | Hilites | s Add- <u>o</u> ns <u>V</u> | <u>Vindow H</u> ela | -         |         |  |                           |   |
|                  |                          |                | n 🖺           |                     | AMA.      | No.     | 🕱 🔚                         |                     |           |         | 6  |                           |   |
|                  | Name                     | Type           | Width         | Decimals            | Lat       | bel     | Values                      | M ssing             | Columns   | Align   | Measu  | re Role                   |   |
| 1                | kepuasankerja            | Numeric        | 8             | 0                   |           |         | None                        | None                | 8         | 🔁 Right | 🖋 Scale  | 📏 Input                   |   |
| 2                | komtmenal                | Numeric        | 8             | 0                   |           |         | None                        | None                | 8         | = Right | Scale Scale  | S Input                   |   |
| 3                | kategorisasi1            | Numeric        | 8             | 0                   | kategoris | asil    | None                        | None                | 15        | 🚍 Right | 🕹 Nominal  | Nagal 🖍                   |   |
| 1                | $\sim$                   |                |               |                     |           |         | $\sim$                      |                     |           |         |  |                           |   |
| 6                |                          |                |               |                     | 1         | Value   | Labels                      |                     |           |         |  |                           |   |
| 6                |                          |                |               |                     | i         | -Volue  | Labale                      |                     |           |         |  |                           |   |
| 8                | 1                        |                |               |                     |           | Value   |                             | -                   |           | 6       | selling  |                           | - |
| 9                | 8                        |                |               |                     |           |         |                             |                     |           |         | in the second se |                           |   |
| 10               |                          |                |               |                     |           | Fane    |                             |                     |           |         |  |                           |   |
| 11               |                          |                |               |                     |           |         |                             |                     |           |         |  |                           |   |
| 12               |                          |                |               |                     |           |         | 西dd                         |                     |           |         |  |                           |   |
| 13               | ( I                      |                |               |                     |           |         | Change                      |                     |           |         |  |                           |   |
| 14               | <u> </u>                 |                | _             | _                   |           | 0       | Bernove                     |                     |           |         |  |                           |   |
| 15               | <pre>}</pre>             |                | _             |                     |           |         |                             |                     |           |         |  |                           |   |
| 16               |                          |                | _             |                     |           |         |                             |                     | 1         | -       |  |                           |   |
| 17               |                          |                | _             |                     |           |         |                             | OK Car              | icel Hele |         |  |                           |   |
| 18               | 2                        |                |               |                     | 0         |         | 1                           |                     |           |         | 9  |                           |   |
| 19               |                          |                |               |                     |           |         |                             |                     |           |         |  |                           | _ |
| 20               |                          |                |               |                     |           |         |                             |                     |           |         |  |                           |   |
| 21               | 4                        |                |               |                     |           |         |                             |                     |           |         |  |                           |   |
| 22               |                          |                | _             |                     |           |         |                             |                     |           |         | _  |                           |   |
| 23               | 1                        |                |               |                     |           |         |                             |                     |           |         |  |                           |   |
|                  |                          | 1              |               |                     |           |         |                             |                     |           |         |  |                           |   |
| Eath View        | Variable View            |                |               |                     |           |         |                             |                     |           |         |  |                           |   |
|                  |                          | 1              |               |                     |           |         |                             |                     |           |         |  | Invenor                   |   |

Pada Value ketik 5, lalu pada Label ketik Sangat Tinggi, kemudian Klik Add

| Value Labels  | Value Labels                              | ×       |
|---|---|---------|
| -Value Labels<br>Value: 5<br>Label: SangatTinggi<br>Add<br>Change<br>Remove | Value Labels<br>Value   Spallin<br>Label: | <b></b> |
| CK Cancel Help  | 13 OK Cancel Help                         |         |

| alue Labels         |          | -Value Labels-      |          |
|---------------------|----------|---------------------|----------|
| /alge. 4            | Spelling | Value               | Spelling |
| _abel: Tinggi       |          | Labe                |          |
| 5 - "SanocalTingo." |          | 4 - "1 (rpa"        | i i      |
| [ Add ]             |          | 5 = "SanggalTinggi" |          |
| Change              |          | Criaripe            |          |
| Bamove              |          | <u>Hiembue</u>      |          |
| (222)               |          |                     |          |

Pada Value ketik 4, lalu pada Label ketik Tinggi, kemudian Klik Add

Pada Value ketik 3, lalu pada Label ketik Sedang, kemudian Klik Add

| Volue Labels                              | Spel rg | 🍓 Value Labels<br>Value Labels  | Scelling |
|---|---------|---|----------|
| Label tracend<br>Ann<br>Change<br>Bernove |         | Label<br>Add<br>Crance<br>Memory<br>(1 = "Sindarg"<br>4 - "Tinggi"<br>6 = "SingcatTingch"<br>4 - "SingcatTingch"<br>5 - "SingcatTingch"<br>4 - "SingcatTingch"<br>5 |          |
| OK Cannal Hop                             |         | OK Cancel Halp  |          |

Pada Value ketik 2, lalu pada Label ketik Rendah, kemudian Klik Add

| 😭 Value Labels  | 🖼 Value Labels 🔤   | R   |
|---|--|-----|
| Value tabels<br>Valge: 2<br>Label: Rombil<br>Add<br>Calance<br>Rimmon<br>Stranger<br>Stranger<br>Stranger | Value Labels<br>Vulge.  <br>Label:<br>(dat)<br>(dat)<br>(dat)<br>2 = "Rendul"<br>3 = "Ecolong"<br>4 = "Inagi"<br>5 = "Surgga(Tingg)" |     |
| OK Cancel Help  | OK Cancel Lielp  | 201 |

Pada Value ketik 1, lalu pada Label ketik Sangat Rendah, kemudian Klik Add

ж

Spelling

| Value ahe s   | Value Labels   |
|---|--|
| Lobo: SangatRendah<br>Lobo: SangatRendah<br>2 - "Rendan"<br>3 - "Seciang"<br>4 - "Tringg"<br>5 - "SanggatTingg" | Label.<br>[Add] 1 - "Sanga[Rendsh"<br>(Add] 2 - "Kendan"<br>D = "Gedang"<br>4 = Tingg"<br>6 "Bangqa:Tingg" |
|   |  |

# Program Studi Psikologi Universitas Mulawarman

| Kem  | Frequencies                               |                   | x  |     | Sec. Phys. |                  | 1 <mark>- X</mark> |
|--|---|-------------------|--|-----|------------|------------------|--------------------|
| 1<br>2<br>4<br>5<br>6<br>7<br>7<br>8<br>9<br>9<br>10 | kepuasankerja<br>Komitmenafektif          | variable(s):      | <u>Statistics</u><br><u>Charts</u><br><u>Format</u><br><u>B</u> ootstrap | 087 | var        | Asible: 3 of 3 1 | /ariable           |
| 12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20   | ☑ Display frequency tables     OK   Paste | Reset Cancel Help |  |     |            |                  |                    |

Selanjutya kita akan mencari frekuensi dan persentasenya

1. klik Analyze-Desriptive Statistics-Frequencies

| 1 "Untitled | 1 [DataSet0] - IBM SPSS Statist | tics Data Editor   |   | time and William | -     | -         |       |      |      |     |      | , o 🗉 📻             |
|-------------|---------------------------------|--|---|------------------|-------|-----------|-------|------|------|-----|------|---------------------|
| Ele Edit    | <u>View Data Transform</u>      | Analyze Direct Markeling Gra   | iphs <u>U</u> lilities Add- <u>o</u> ns | Window Help      |       |           |       |      |      |     |      |                     |
| a -         |                                 | Reports  | ) . 🐺 🖽 🔳                               | 1 A 1            | AC    | ARIA ARIA |       |      |      |     |      |                     |
| 1           |                                 | Descriptive Statistics   | Frequencies                             |                  | 14 30 |           | 2     |      |      |     |      |                     |
|             |                                 | Tables   | b Descriptives                          |                  |       |           |       |      |      |     | V    | sible: 3 of 3 Varia |
|             | kepuasankerj komitmena          | r Co <u>m</u> pare Means   | Explore                                 | Var              | VOI   | VEI       | yan . | VEIT | Vat  | Val | YEIF | YUI I               |
|             | a kli                           | General Linear Model   | Crosstabs                               |                  |       |           |       | 1.57 | 1000 | 302 |      | 1.55                |
| -           | 03                              | Generalized Linear Medals  | F Bushs                                 |                  | -     | -         |       |      |      |     | -    |                     |
|             | 50                              | Mixed Models   | F Cars.                                 |                  |       |           |       |      |      |     |      |                     |
|             |                                 | Correlate  | P Plots                                 |                  |       |           |       |      |      |     |      |                     |
| -           | 50                              | Regression   | O-C Plots                               |                  |       |           |       |      |      |     |      |                     |
| 6           | 22                              | 1 <u>og</u> finese   | ۴ 🚽                                     |                  |       |           |       |      |      |     |      |                     |
| 7           | 70                              | Neural Networks  | <u>۲</u>                                |                  | -     |           |       |      |      |     |      |                     |
| 8           | 61                              | Classity   | ۶ – · · · · · · · · · · · · · · · · · · |                  |       |           |       |      |      |     |      |                     |
| 9           | 51                              | Dimension Reduction  | r                                       |                  |       |           |       |      |      |     |      |                     |
| 10          | Q.                              | Scale  | •                                       |                  |       |           |       |      |      |     |      |                     |
| 11          | 67                              | Nonparametric Testa  | F                                       |                  |       |           |       |      |      |     |      |                     |
| 12          | 53                              | orecasting   | •                                       |                  |       |           |       |      |      |     |      |                     |
| 13          | 49                              | Survival   | •                                       |                  |       |           |       |      |      |     |      |                     |
| 14          | 59                              | Multiple Response  | F                                       |                  |       |           |       |      |      |     |      |                     |
| 15          | 66                              | t 🔛 Missing Value Analysis   |   |                  |       |           |       |      |      |     |      |                     |
| 16          | 48                              | 4 Multiple Imputation  | F                                       |                  |       |           |       |      |      |     |      |                     |
| 17          | 59                              | Complex Samples  | F                                       |                  |       |           |       |      |      |     |      |                     |
| 18          | 58                              | Juality Control  | • <u> </u>                              |                  | -     |           |       |      |      |     |      |                     |
| 19          |                                 | RUC Curve .  |   |                  | -     |           |       |      |      |     |      |                     |
| 20          | 62                              | BM SPSS Arrow  |   |                  |       |           |       |      |      |     |      |                     |
| 21          | 12                              | A State of the sta |   |                  |       |           |       |      |      |     |      |                     |

2. kemudian pindahkan kategorisasi1 ke kolom variabel(s), Lalu Klik OK

| 🔗 kepuasankerja<br>🔗 komitmenafektif | *    | Variable(s):      | Statistics<br>Charts<br>Eormat<br>Bootstrap. |
|--------------------------------------|------|-------------------|--|
| Display frequency tables             | aste | Reset Cancel Help |  |

|       |              | Frequency | Percent | Valid Percent | Cumulative<br>Percent |  |  |  |
|-------|--------------|-----------|---------|---------------|-----------------------|--|--|--|
| Valid | sedang       | 6         | 10,7    | 10,7          | 10,7                  |  |  |  |
|       | Tinggi       | 45        | 80,4    | 80,4          | 91,1                  |  |  |  |
|       | SangatTinggi | 5         | 8,9     | 8,9           | 100,0                 |  |  |  |
|       | Total        | 56        | 100,0   | 100,0         |                       |  |  |  |

\*Dilampirkan

# Kategorisasi Skor Skala Kepuasan Kerja

| Interval Kecenderungan            | Skor  | Kategori      | F  | Persent. |
|-----------------------------------|-------|---------------|----|----------|
| X > M + 1.5 SD                    | 65    | Sangat Tinggi | 5  | 8.9%     |
| M + 0.5 SD < X < M + 1.5 SD       | 55-64 | Tinggi        | 45 | 80.4%    |
| $M - 0.5 \ SD < X < M + 0.5 \ SD$ | 45-54 | Sedang        | 6  | 10.7%    |
| M -1.5 SD $< X < M - 0.5$ SD      | 35-44 | Rendah        | 0  | 0%       |
| $X < M - 1.5 \ SD$                | 34    | Sangat Rendah | 0  | 0%       |