LAMPIRAN

Lampiran 1 Hasil analisis SEM secara rinci

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                  L I S R E L  8.72

                         BY

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The following lines were read from file D:\Aziz 292\DATA.SPJ:

Raw Data from file 'D:\Aziz 292\DATA.psf'
Latent Variables  X1 X2 X3 X4 X5 X6 X7 X8 Y1 Y2
Relationships
X3.2 X3.3 = X3
X4.2 X4.3 = X4
X8.1 X8.2 X8.5 X8.6 X8.7 = X8
Y1.1 Y1.2 = Y1
Y2.1 Y2.2 = Y2
Y1 = X8 X3
Y2 = Y1 X4
Path Diagram
Options SE EF
End of Problem

Sample Size =   292


        Covariance Matrix

           Y1.1  Y1.2  Y2.1  Y2.2  X3.2  X3.3
           ----- ----- ----- ----- ----- -----
Y1.1       0.71
Y1.2       0.37  0.80
Y2.1       0.03  0.17  0.38
Y2.2       0.05  0.16  0.14  1.12
X3.2       0.29  0.38  0.07  0.03  1.35
X3.3       0.26  0.30  0.07  0.03  0.45  0.68
X4.2       0.23  0.35  0.19  0.17  0.67  0.35
```

```
X4.3        0.25  0.40  0.20  0.25  0.65  0.36
X8.1        0.33  0.47  0.15  0.11  0.24  0.22
X8.2        0.34  0.44  0.16  0.19  0.32  0.28
X8.5        0.34  0.51  0.17  0.06  0.28  0.25
X8.6        0.40  0.46  0.15  0.05  0.42  0.25
X8.7        0.35  0.46  0.18  0.10  0.26  0.26
```

```
        Covariance Matrix

          X4.2  X4.3  X8.1  X8.2  X8.5  X8.6
          ----  ----  ----  ----  ----  ----
X4.2      1.06
X4.3      0.80  1.25
X8.1      0.29  0.31  0.72
X8.2      0.28  0.34  0.48  0.74
X8.5      0.28  0.32  0.54  0.39  0.68
X8.6      0.34  0.31  0.56  0.51  0.52  1.04
X8.7      0.27  0.38  0.45  0.44  0.46  0.41
```

```
        Covariance Matrix

          X8.7
          --------
X8.7      0.71
```

Number of Iterations = 15

LISREL Estimates (Maximum Likelihood)

Measurement Equations

```
Y1.1 = 0.51*Y1, Errorvar.= 0.45  , R² = 0.37
                          (0.041)
                           10.97

Y1.2 = 0.71*Y1, Errorvar.= 0.29  , R² = 0.64
       (0.067)             (0.040)
        10.61               7.30

Y2.1 = 0.42*Y2, Errorvar.= 0.21  , R² = 0.45
                          (0.061)
                           3.45

Y2.2 = 0.34*Y2, Errorvar.= 1.00  , R² = 0.11
       (0.11)              (0.092)
        3.03               10.89


X3.2 = 0.86*X3, Errorvar.= 0.60  , R² = 0.55
       (0.070)             (0.085)
        12.27              7.10

X3.3 = 0.52*X3, Errorvar.= 0.41  , R² = 0.40
       (0.050)             (0.043)
        10.49              9.60
```

```
X4.2 = 0.89*X4, Errorvar.= 0.27  , R² = 0.74
       (0.055)             (0.053)
        16.18               5.22


X4.3 = 0.91*X4, Errorvar.= 0.42  , R² = 0.66
       (0.060)             (0.061)
        15.12               6.93


X8.1 = 0.73*X8, Errorvar.= 0.19  , R² = 0.74
       (0.041)             (0.021)
        18.05               8.90


X8.2 = 0.64*X8, Errorvar.= 0.33  , R² = 0.55
       (0.044)             (0.031)
        14.41              10.75


X8.5 = 0.71*X8, Errorvar.= 0.18  , R² = 0.74
       (0.039)             (0.020)
        17.94               8.99


X8.6 = 0.73*X8, Errorvar.= 0.51  , R² = 0.52
       (0.053)             (0.046)
        13.77              10.92


X8.7 = 0.64*X8, Errorvar.= 0.30  , R² = 0.58
       (0.043)             (0.028)
        14.97              10.57
```

Structural Equations

```
Y1 = 0.21*X3 + 0.85*X8, Errorvar.= 0.041 , R² = 0.96
     (0.066)   (0.090)             (0.063)
      3.13      9.40                0.65


Y2 = 0.38*Y1 + 0.27*X4, Errorvar.= 0.67 , R² = 0.33
     (0.11)    (0.11)              (0.34)
      3.36      2.39                1.99
```

Reduced Form Equations

```
Y1 = 0.21*X3 + 0.0*X4 + 0.85*X8, Errorvar.= 0.041, R² = 0.96
     (0.066)           (0.090)
      3.13              9.40


Y2 = 0.078*X3 + 0.27*X4 + 0.32*X8, Errorvar.= 0.68, R² = 0.32
     (0.034)     (0.11)    (0.093)
      2.28        2.39      3.45
```

```
          Correlation Matrix of Independent Variables


                   X3             X4             X8
                --------       --------       --------
        X3         1.00

        X4         0.81           1.00
                  (0.05)
                  16.67

        X8         0.55           0.48           1.00
                  (0.06)         (0.05)
                   8.98           8.91


          Covariance Matrix of Latent Variables

                   Y1             Y2             X3             X4             X8
                --------       --------       --------       --------       --------
        Y1         1.00
        Y2         0.53           1.00
        X3         0.67           0.47           1.00
        X4         0.58           0.49           0.81           1.00
        X8         0.96           0.49           0.55           0.48           1.00


                       Goodness of Fit Statistics

                      Degrees of Freedom = 58
        Minimum Fit Function Chi-Square = 168.53 (P = 0.00)
Normal Theory Weighted Least Squares Chi-Square=163.45(P= 0.00)
           Estimated Non-centrality Parameter (NCP) = 105.45
     90 Percent Confidence Interval for NCP = (71.07 ; 147.48)


               Minimum Fit Function Value = 0.58
          Population Discrepancy Function Value (F0) = 0.36
        90 Percent Confidence Interval for F0 = (0.24 ; 0.51)
       Root Mean Square Error of Approximation (RMSEA) = 0.079
     90 Percent Confidence Interval for RMSEA = (0.065 ; 0.093)
        P-Value for Test of Close Fit (RMSEA < 0.05) = 0.00056


           Expected Cross-Validation Index (ECVI) = 0.79
      90 Percent Confidence Interval for ECVI = (0.67 ; 0.93)
                 ECVI for Saturated Model = 0.63
                 ECVI for Independence Model = 12.91

Chi-Square for Independence Model with 78 Degrees of Freedom
= 3731.52
                   Independence AIC = 3757.52
                      Model AIC = 229.45
                   Saturated AIC = 182.00
                 Independence CAIC = 3818.32
                     Model CAIC = 383.78
                  Saturated CAIC = 607.58


                  Normed Fit Index (NFI) = 0.95
               Non-Normed Fit Index (NNFI) = 0.96
           Parsimony Normed Fit Index (PNFI) = 0.71
               Comparative Fit Index (CFI) = 0.97
               Incremental Fit Index (IFI) = 0.97
                Relative Fit Index (RFI) = 0.94
```

```
                 Critical N (CN) = 149.41


           Root Mean Square Residual (RMR) = 0.042
                     Standardized RMR = 0.051
               Goodness of Fit Index (GFI) = 0.92
        Adjusted Goodness of Fit Index (AGFI) = 0.88
        Parsimony Goodness of Fit Index (PGFI) = 0.59


The Modification Indices Suggest to Add the

  Path to    from       Decrease in Chi-Square    New Estimate
Y1.1       Y2                   15.5                  -0.30
X3.2       X4                   10.4                   1.05
X3.2       X8                    9.9                  -0.36
X3.3       X8                    9.9                   0.22
X8.1       X3                    9.4                  -0.14
Y2         X3                   15.8                  -1.02
Y2         X8                   13.9                   2.96

The Modification Indices Suggest to Add an Error Covariance
  Between     and      Decrease in Chi-Square    New Estimate
Y2.1       Y1.1                 14.7                  -0.09
X4.3       X4.2                 15.7                  -1.36
X8.5       X8.2                 30.7                  -0.10
X8.6       X3.2                 10.7                   0.13
X8.7       X4.3                  8.9                   0.08
X8.7       X8.6                  8.4                  -0.08


Total and Indirect Effects


        Total Effects of KSI on ETA


                  X3          X4          X8
               --------    --------    --------
       Y1        0.21        - -          0.85
                (0.07)                   (0.09)
                 3.13                     9.40

       Y2        0.08        0.27         0.32
                (0.03)      (0.11)       (0.09)
                 2.28        2.39         3.45


        Indirect Effects of KSI on ETA


                  X3          X4          X8
               --------    --------    --------
       Y1        - -         - -          - -

       Y2        0.08        - -          0.32
                (0.03)                   (0.09)
                 2.28                     3.45


        Total Effects of ETA on ETA

                  Y1          Y2
               --------    --------
       Y1        - -         - -

       Y2        0.38        - -
                (0.11)
                 3.36
```

```
Largest Eigenvalue of B*B' (Stability Index) is   0.142

          Total Effects of ETA on Y

                  Y1          Y2
               --------    --------
     Y1.1        0.51         - -

     Y1.2        0.71         - -
                (0.07)
                10.61

     Y2.1        0.16        0.42
                (0.05)
                 3.36

     Y2.2        0.13        0.34
                (0.05)      (0.11)
                 2.42        3.03


          Indirect Effects of ETA on Y

                  Y1          Y2
               --------    --------
     Y1.1         - -         - -

     Y1.2         - -         - -

     Y2.1        0.16         - -
                (0.05)
                 3.36

     Y2.2        0.13         - -
                (0.05)
                 2.42


          Total Effects of KSI on Y

                  X3          X4          X8
               --------    --------    --------
     Y1.1        0.11         - -        0.44
                (0.03)                  (0.05)
                 3.13                    9.40

     Y1.2        0.15         - -        0.60
                (0.05)                  (0.05)
                 3.20                   12.02

     Y2.1        0.03        0.11        0.13
                (0.01)      (0.05)      (0.04)
                 2.28        2.39        3.45

     Y2.2        0.03        0.09        0.11
                (0.01)      (0.05)      (0.04)
                 1.91        1.97        2.45


               Time used:    0.047 Seconds
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