**LAMPIRAN 2**

**KARAKTERISTIK RESPONDEN DAN TABEL PERTANYAAN**

1. ***Customer Relations***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | Setuju | 16 | 45,7 | 45,7 | 45,7 |
| Sangat Setuju | 19 | 54,3 | 54,3 | 100,0 |
| Total | 35 | 100,0 | 100,0 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | kurang Setuju | 2 | 5,7 | 5,7 | 5,7 |
| Setuju | 16 | 45,7 | 45,7 | 51,4 |
| Sangat Setuju | 17 | 48,6 | 48,6 | 100,0 |
| Total | 35 | 100,0 | 100,0 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | Setuju | 20 | 57,1 | 57,1 | 57,1 |
| Sangat Setuju | 15 | 42,9 | 42,9 | 100,0 |
| Total | 35 | 100,0 | 100,0 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | Tidak Setuju | 1 | 2,9 | 2,9 | 2,9 |
| kurang Setuju | 3 | 8,6 | 8,6 | 11,4 |
| Setuju | 20 | 57,1 | 57,1 | 68,6 |
| Sangat Setuju | 11 | 31,4 | 31,4 | 100,0 |
| Total | 35 | 100,0 | 100,0 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | kurang Setuju | 1 | 2,9 | 2,9 | 2,9 |
| Setuju | 19 | 54,3 | 54,3 | 57,1 |
| Sangat Setuju | 15 | 42,9 | 42,9 | 100,0 |
| Total | 35 | 100,0 | 100,0 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | kurang Setuju | 3 | 8,6 | 8,6 | 8,6 |
| Setuju | 25 | 71,4 | 71,4 | 80,0 |
| Sangat Setuju | 7 | 20,0 | 20,0 | 100,0 |
| Total | 35 | 100,0 | 100,0 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | kurang Setuju | 6 | 17,1 | 17,1 | 17,1 |
| Setuju | 21 | 60,0 | 60,0 | 77,1 |
| Sangat Setuju | 8 | 22,9 | 22,9 | 100,0 |
| Total | 35 | 100,0 | 100,0 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | kurang Setuju | 2 | 5,7 | 5,7 | 5,7 |
| Setuju | 23 | 65,7 | 65,7 | 71,4 |
| Sangat Setuju | 10 | 28,6 | 28,6 | 100,0 |
| Total | 35 | 100,0 | 100,0 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | kurang Setuju | 4 | 11,4 | 11,4 | 11,4 |
| Setuju | 20 | 57,1 | 57,1 | 68,6 |
| Sangat Setuju | 11 | 31,4 | 31,4 | 100,0 |
| Total | 35 | 100,0 | 100,0 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | kurang Setuju | 5 | 14,3 | 14,3 | 14,3 |
| Setuju | 20 | 57,1 | 57,1 | 71,4 |
| Sangat Setuju | 10 | 28,6 | 28,6 | 100,0 |
| Total | 35 | 100,0 | 100,0 |  |

1. ***Customer Loyalty***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | kurang Setuju | 4 | 11,4 | 11,4 | 11,4 |
| Setuju | 20 | 57,1 | 57,1 | 68,6 |
| Sangat Setuju | 11 | 31,4 | 31,4 | 100,0 |
| Total | 35 | 100,0 | 100,0 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | kurang Setuju | 1 | 2,9 | 2,9 | 2,9 |
| Setuju | 20 | 57,1 | 57,1 | 60,0 |
| Sangat Setuju | 14 | 40,0 | 40,0 | 100,0 |
| Total | 35 | 100,0 | 100,0 |  |

|  |
| --- |
|  |
|  | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | kurang Setuju | 5 | 14,3 | 14,3 | 14,3 |
| Setuju | 20 | 57,1 | 57,1 | 71,4 |
| Sangat Setuju | 10 | 28,6 | 28,6 | 100,0 |
| Total | 35 | 100,0 | 100,0 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | kurang Setuju | 7 | 20,0 | 20,0 | 20,0 |
| Setuju | 16 | 45,7 | 45,7 | 65,7 |
| Sangat Setuju | 12 | 34,3 | 34,3 | 100,0 |
| Total | 35 | 100,0 | 100,0 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | kurang Setuju | 2 | 5,7 | 5,7 | 5,7 |
| Setuju | 21 | 60,0 | 60,0 | 65,7 |
| Sangat Setuju | 12 | 34,3 | 34,3 | 100,0 |
| Total | 35 | 100,0 | 100,0 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | Setuju | 16 | 45,7 | 45,7 | 45,7 |
| Sangat Setuju | 19 | 54,3 | 54,3 | 100,0 |
| Total | 35 | 100,0 | 100,0 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | kurang Setuju | 2 | 5,7 | 5,7 | 5,7 |
| Setuju | 16 | 45,7 | 45,7 | 51,4 |
| Sangat Setuju | 17 | 48,6 | 48,6 | 100,0 |
| Total | 35 | 100,0 | 100,0 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | Setuju | 20 | 57,1 | 57,1 | 57,1 |
| Sangat Setuju | 15 | 42,9 | 42,9 | 100,0 |
| Total | 35 | 100,0 | 100,0 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | Tidak Setuju | 1 | 2,9 | 2,9 | 2,9 |
| kurang Setuju | 3 | 8,6 | 8,6 | 11,4 |
| Setuju | 20 | 57,1 | 57,1 | 68,6 |
| Sangat Setuju | 11 | 31,4 | 31,4 | 100,0 |
| Total | 35 | 100,0 | 100,0 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | kurang Setuju | 1 | 2,9 | 2,9 | 2,9 |
| Setuju | 19 | 54,3 | 54,3 | 57,1 |
| Sangat Setuju | 15 | 42,9 | 42,9 | 100,0 |
| Total | 35 | 100,0 | 100,0 |  |

**LAMPIRAN 3**

**UJI VALIDITAS DAN RELIABILITAS**

|  |
| --- |
| **Correlations** |
|  | Total |
| x1.1 | Pearson Correlation | ,864\*\* |
| Sig. (2-tailed) | ,000 |
| N | 35 |
| x1.2 | Pearson Correlation | ,829\*\* |
| Sig. (2-tailed) | ,000 |
| N | 35 |
| x1.3 | Pearson Correlation | ,610\*\* |
| Sig. (2-tailed) | ,000 |
| N | 35 |
| x1.4 | Pearson Correlation | ,685\*\* |
| Sig. (2-tailed) | ,000 |
| N | 35 |
| x1.5 | Pearson Correlation | ,495\*\* |
| Sig. (2-tailed) | ,003 |
| N | 35 |
| x1.6 | Pearson Correlation | ,605\*\* |
| Sig. (2-tailed) | ,000 |
| N | 35 |
| x1.7 | Pearson Correlation | ,637\*\* |
| Sig. (2-tailed) | ,000 |
| N | 35 |
| x1.8 | Pearson Correlation | ,601\*\* |
| Sig. (2-tailed) | ,000 |
| N | 35 |
| x1.9 | Pearson Correlation | ,589\*\* |
| Sig. (2-tailed) | ,000 |
| N | 35 |
| x1.10 | Pearson Correlation | ,673\*\* |
| Sig. (2-tailed) | ,000 |
| N | 35 |
| Total | Pearson Correlation | 1 |
| Sig. (2-tailed) |  |
| N | 35 |
| \*\*. Correlation is significant at the 0.01 level (2-tailed). |
| \*. Correlation is significant at the 0.05 level (2-tailed). |
| Correlations |
|  | Total |
| y1.1 | Pearson Correlation | ,630\*\* |
| Sig. (2-tailed) | ,000 |
| N | 35 |
| y1.2 | Pearson Correlation | ,577\*\* |
| Sig. (2-tailed) | ,000 |
| N | 35 |
| y1.3 | Pearson Correlation | ,618\*\* |
| Sig. (2-tailed) | ,000 |
| N | 35 |
| y1.4 | Pearson Correlation | ,620\*\* |
| Sig. (2-tailed) | ,000 |
| N | 35 |
| y1.5 | Pearson Correlation | ,460\*\* |
| Sig. (2-tailed) | ,005 |
| N | 35 |
| y1.6 | Pearson Correlation | ,875\*\* |
| Sig. (2-tailed) | ,000 |
| N | 35 |
| y1.7 | Pearson Correlation | ,772\*\* |
| Sig. (2-tailed) | ,000 |
| N | 35 |
| y1.8 | Pearson Correlation | ,562\*\* |
| Sig. (2-tailed) | ,000 |
| N | 35 |
| y1.9 | Pearson Correlation | ,664\*\* |
| Sig. (2-tailed) | ,000 |
| N | 35 |
| y1.10 | Pearson Correlation | ,512\*\* |
| Sig. (2-tailed) | ,002 |
| N | 35 |
| Total | Pearson Correlation | 1 |
| Sig. (2-tailed) |  |
| N | 35 |
| \*. Correlation is significant at the 0.05 level (2-tailed). |
| \*\*. Correlation is significant at the 0.01 level (2-tailed). |

**LAMPIRAN 4**

**REGRESI LINIER BERGANDA, UJI T, UJI F DAN UJI DETERMINASI**

|  |
| --- |
| **Model Summaryb** |
| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate |
| 1 | ,903a | ,816 | ,810 | 1,64528 |
| a. Predictors: (Constant), x |
| b. Dependent Variable: Customer Loyality |

|  |
| --- |
| **ANOVAa** |
| Model | Sum of Squares | df | Mean Square | F | Sig. |
| 1 | Regression | 396,214 | 1 | 396,214 | 146,369 | ,000b |
| Residual | 89,329 | 33 | 2,707 |  |  |
| Total | 485,543 | 34 |  |  |  |
| a. Dependent Variable: Customer Loyality |
| b. Predictors: (Constant), x |

|  |
| --- |
| **Coefficientsa** |
| Model | Unstandardized Coefficients | Standardized Coefficients | t | Sig. |
| B | Std. Error | Beta |
| 1 | (Constant) | 5,434 | 3,127 |  | 1,738 | ,092 |
| x | ,882 | ,073 | ,903 | 12,098 | ,000 |
| a. Dependent Variable: Customer Loyality |

**LAMPIRAN 5**

**TABULASI , TABEL r DAN t**

1. ***Customer Relations***

|  |  |  |
| --- | --- | --- |
| **No** | **Jawaban Variabel X** | **Total** |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** |
| **1** | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | **47** |
| **2** | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | **46** |
| **3** | 5 | 5 | 4 | 5 | 4 | 4 | 5 | 4 | 4 | 5 | **45** |
| **4** | 4 | 4 | 4 | 4 | 5 | 4 | 4 | 4 | 4 | 4 | **41** |
| **5** | 5 | 5 | 4 | 4 | 5 | 4 | 5 | 4 | 5 | 5 | **46** |
| **6** | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 4 | 4 | **41** |
| **7** | 4 | 3 | 5 | 3 | 3 | 3 | 4 | 4 | 4 | 5 | **38** |
| **8** | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 3 | **38** |
| **9** | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 4 | **45** |
| **10** | 5 | 5 | 5 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | **48** |
| **11** | 4 | 3 | 4 | 3 | 4 | 4 | 3 | 3 | 4 | 3 | **35** |
| **12** | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | **40** |
| **13** | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | **41** |
| **14** | 4 | 4 | 4 | 4 | 5 | 5 | 4 | 4 | 4 | 4 | **42** |
| **15** | 5 | 5 | 5 | 4 | 4 | 4 | 5 | 5 | 5 | 4 | **46** |
| **16** | 4 | 4 | 4 | 4 | 5 | 4 | 4 | 4 | 4 | 4 | **41** |
| **17** | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | **47** |
| **18** | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 5 | 5 | 5 | **48** |
| **19** | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 5 | 5 | **46** |
| **20** | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | **39** |
| **21** | 4 | 5 | 4 | 2 | 4 | 4 | 4 | 4 | 5 | 4 | **40** |
| **22** | 4 | 4 | 5 | 3 | 4 | 4 | 3 | 4 | 4 | 3 | **38** |
| **23** | 4 | 4 | 4 | 4 | 5 | 3 | 3 | 4 | 3 | 4 | **38** |
| **24** | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | **39** |
| **25** | 5 | 5 | 5 | 5 | 5 | 4 | 5 | 5 | 5 | 5 | **49** |
| **26** | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | **44** |
| **27** | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | **40** |
| **28** | 5 | 5 | 5 | 5 | 5 | 4 | 3 | 4 | 3 | 4 | **43** |
| **29** | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 5 | 5 | 5 | **49** |
| **30** | 5 | 5 | 5 | 4 | 4 | 4 | 5 | 5 | 4 | 4 | **45** |
| **31** | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 4 | 3 | 3 | **36** |
| **32** | 5 | 5 | 4 | 4 | 5 | 4 | 3 | 5 | 5 | 4 | **44** |
| **33** | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | **46** |
| **34** | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | **44** |
| **35** | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | **40** |
| Total | 159 | 155 | 155 | 146 | 154 | 144 | 142 | 148 | 147 | 145 | 1495 |

1. ***Customer loyalti***

|  |  |  |
| --- | --- | --- |
| **No** | **Jawaban Variabel Y** | **Total** |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** |
| **1** | 5 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | **48** |
| **2** | 4 | 5 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | **46** |
| **3** | 4 | 5 | 5 | 5 | 4 | 5 | 5 | 4 | 5 | 4 | **46** |
| **4** | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | **41** |
| **5** | 5 | 4 | 5 | 4 | 4 | 5 | 5 | 4 | 4 | 5 | **45** |
| **6** | 4 | 5 | 4 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | **42** |
| **7** | 4 | 4 | 5 | 5 | 4 | 4 | 3 | 5 | 3 | 3 | **40** |
| **8** | 4 | 4 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | **38** |
| **9** | 5 | 5 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | **47** |
| **10** | 5 | 4 | 5 | 4 | 4 | 5 | 5 | 5 | 4 | 4 | **45** |
| **11** | 3 | 4 | 3 | 4 | 5 | 4 | 3 | 4 | 3 | 4 | **37** |
| **12** | 5 | 5 | 4 | 5 | 5 | 4 | 4 | 4 | 4 | 4 | **44** |
| **13** | 4 | 4 | 4 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | **43** |
| **14** | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | **42** |
| **15** | 5 | 5 | 4 | 4 | 4 | 5 | 5 | 5 | 4 | 4 | **45** |
| **16** | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 5 | **40** |
| **17** | 4 | 5 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | **48** |
| **18** | 5 | 5 | 5 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | **49** |
| **19** | 4 | 4 | 5 | 5 | 4 | 5 | 5 | 5 | 5 | 4 | **46** |
| **20** | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | **40** |
| **21** | 5 | 4 | 4 | 4 | 5 | 4 | 5 | 4 | 2 | 4 | **41** |
| **22** | 4 | 4 | 3 | 3 | 4 | 4 | 4 | 5 | 3 | 4 | **38** |
| **23** | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | **41** |
| **24** | 4 | 5 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | **39** |
| **25** | 4 | 4 | 5 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | **47** |
| **26** | 4 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | **45** |
| **27** | 3 | 4 | 4 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | **37** |
| **28** | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | **45** |
| **29** | 4 | 5 | 5 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | **47** |
| **30** | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | **45** |
| **31** | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | **36** |
| **32** | 5 | 5 | 4 | 5 | 5 | 5 | 5 | 4 | 4 | 5 | **47** |
| **33** | 5 | 5 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | **47** |
| **34** | 4 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | **45** |
| **35** | 3 | 4 | 4 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | **37** |
| Total | 147 | 153 | 145 | 145 | 150 | 159 | 155 | 155 | 146 | 154 | 1509 |

1. **Tabel r Product Moment**

|  |
| --- |
| **Tingkat signifikansi untuk uji satu arah** |
| **df = (N-2)** | **0.05** | **0.025** | **0.01** | **0.005** | **0.0005** | **df = (N-2)** | **0.05** | **0.025** | **0.01** | **0.005** | **0.0005** |
| **Tingkat signifikansi untuk uji dua arah** | **Tingkat signifikansi untuk uji dua arah** |
|   |   |
|   | **0.1** | **0.05** | **0.02** | **0.01** | **0.001** |   | **0.1** | **0.05** | **0.02** | **0.01** | **0.001** |
| **1** | 0.9877 | 0.9969 | 0.9995 | 0.9999 | 10.000 | **51** | 0.2284 | 0.2706 | 0.3188 | 0.3509 | 0.4393 |
| **2** | 0.9000 | 0.9500 | 0.9800 | 0.9900 | 0.9990 | **52** | 0.2262 | 0.2681 | 0.3158 | 0.3477 | 0.4354 |
| **3** | 0.8054 | 0.8783 | 0.9343 | 0.9587 | 0.9911 | **53** | 0.2241 | 0.2656 | 0.3129 | 0.3445 | 0.4317 |
| **4** | 0.7293 | 0.8114 | 0.8822 | 0.9172 | 0.9741 | **54** | 0.2221 | 0.2632 | 0.3102 | 0.3415 | 0.4280 |
| **5** | 0.6694 | 0.7545 | 0.8329 | 0.8745 | 0.9509 | **55** | 0.2201 | 0.2609 | 0.3074 | 0.3385 | 0.4244 |
| **6** | 0.6215 | 0.7067 | 0.7887 | 0.8343 | 0.9249 | **56** | 0.2181 | 0.2586 | 0.3048 | 0.3357 | 0.4210 |
| **7** | 0.5822 | 0.6664 | 0.7498 | 0.7977 | 0.8983 | **57** | 0.2162 | 0.2564 | 0.3022 | 0.3328 | 0.4176 |
| **8** | 0.5494 | 0.6319 | 0.7155 | 0.7646 | 0.8721 | **58** | 0.2144 | 0.2542 | 0.2997 | 0.3301 | 0.4143 |
| **9** | 0.5214 | 0.6021 | 0.6851 | 0.7348 | 0.8470 | **59** | 0.2126 | 0.2521 | 0.2972 | 0.3274 | 0.4110 |
| **10** | 0.4973 | 0.5760 | 0.6581 | 0.7079 | 0.8233 | **60** | 0.2108 | 0.2500 | 0.2948 | 0.3248 | 0.4079 |
| **11** | 0.4762 | 0.5529 | 0.6339 | 0.6835 | 0.8010 | **61** | 0.2091 | 0.2480 | 0.2925 | 0.3223 | 0.4048 |
| **12** | 0.4575 | 0.5324 | 0.6120 | 0.6614 | 0.7800 | **62** | 0.2075 | 0.2461 | 0.2902 | 0.3198 | 0.4018 |
| **13** | 0.4409 | 0.5140 | 0.5923 | 0.6411 | 0.7604 | **63** | 0.2058 | 0.2441 | 0.2880 | 0.3173 | 0.3988 |
| **14** | 0.4259 | 0.4973 | 0.5742 | 0.6226 | 0.7419 | **64** | 0.2042 | 0.2423 | 0.2858 | 0.3150 | 0.3959 |
| **15** | 0.4124 | 0.4821 | 0.5577 | 0.6055 | 0.7247 | **65** | 0.2027 | 0.2404 | 0.2837 | 0.3126 | 0.3931 |
| **16** | 0.4000 | 0.4683 | 0.5425 | 0.5897 | 0.7084 | **66** | 0.2012 | 0.2387 | 0.2816 | 0.3104 | 0.3903 |
| **17** | 0.3887 | 0.4555 | 0.5285 | 0.5751 | 0.6932 | **67** | 0.1997 | 0.2369 | 0.2796 | 0.3081 | 0.3876 |
| **18** | 0.3783 | 0.4438 | 0.5155 | 0.5614 | 0.6788 | **68** | 0.1982 | 0.2352 | 0.2776 | 0.3060 | 0.3850 |
| **19** | 0.3687 | 0.4329 | 0.5034 | 0.5487 | 0.6652 | **69** | 0.1968 | 0.2335 | 0.2756 | 0.3038 | 0.3823 |
| **20** | 0.3598 | 0.4227 | 0.4921 | 0.5368 | 0.6524 | **70** | 0.1954 | 0.2319 | 0.2737 | 0.3017 | 0.3798 |
| **21** | 0.3515 | 0.4132 | 0.4815 | 0.5256 | 0.6402 | **71** | 0.1940 | 0.2303 | 0.2718 | 0.2997 | 0.3773 |
| **22** | 0.3438 | 0.4044 | 0.4716 | 0.5151 | 0.6287 | **72** | 0.1927 | 0.2287 | 0.2700 | 0.2977 | 0.3748 |
| **23** | 0.3365 | 0.3961 | 0.4622 | 0.5052 | 0.6178 | **73** | 0.1914 | 0.2272 | 0.2682 | 0.2957 | 0.3724 |
| **24** | 0.3297 | 0.3882 | 0.4534 | 0.4958 | 0.6074 | **74** | 0.1901 | 0.2257 | 0.2664 | 0.2938 | 0.3701 |
| **25** | 0.3233 | 0.3809 | 0.4451 | 0.4869 | 0.5974 | **75** | 0.1888 | 0.2242 | 0.2647 | 0.2919 | 0.3678 |
| **26** | 0.3172 | 0.3739 | 0.4372 | 0.4785 | 0.5880 | **76** | 0.1876 | 0.2227 | 0.2630 | 0.2900 | 0.3655 |
| **27** | 0.3115 | 0.3673 | 0.4297 | 0.4705 | 0.5790 | **77** | 0.1864 | 0.2213 | 0.2613 | 0.2882 | 0.3633 |
| **28** | 0.3061 | 0.3610 | 0.4226 | 0.4629 | 0.5703 | **78** | 0.1852 | 0.2199 | 0.2597 | 0.2864 | 0.3611 |
| **29** | 0.3009 | 0.3550 | 0.4158 | 0.4556 | 0.5620 | **79** | 0.1841 | 0.2185 | 0.2581 | 0.2847 | 0.3589 |
| **30** | 0.2960 | 0.3494 | 0.4093 | 0.4487 | 0.5541 | **80** | 0.1829 | 0.2172 | 0.2565 | 0.2830 | 0.3568 |
| **31** | 0.2913 | 0.3440 | 0.4032 | 0.4421 | 0.5465 | **81** | 0.1818 | 0.2159 | 0.2550 | 0.2813 | 0.3547 |
| **32** | 0.2869 | 0.3388 | 0.3972 | 0.4357 | 0.5392 | **82** | 0.1807 | 0.2146 | 0.2535 | 0.2796 | 0.3527 |
| **33** | 0.2826 | 0.3338 | 0.3916 | 0.4296 | 0.5322 | **83** | 0.1796 | 0.2133 | 0.2520 | 0.2780 | 0.3507 |
| **34** | 0.2785 | 0.3291 | 0.3862 | 0.4238 | 0.5254 | **84** | 0.1786 | 0.2120 | 0.2505 | 0.2764 | 0.3487 |
| **35** | 0.2746 | 0.3246 | 0.3810 | 0.4182 | 0.5189 | **85** | 0.1775 | 0.2108 | 0.2491 | 0.2748 | 0.3468 |
| **36** | 0.2709 | 0.3202 | 0.3760 | 0.4128 | 0.5126 | **86** | 0.1765 | 0.2096 | 0.2477 | 0.2732 | 0.3449 |
| **37** | 0.2673 | 0.3160 | 0.3712 | 0.4076 | 0.5066 | **87** | 0.1755 | 0.2084 | 0.2463 | 0.2717 | 0.3430 |
| **38** | 0.2638 | 0.3120 | 0.3665 | 0.4026 | 0.5007 | **88** | 0.1745 | 0.2072 | 0.2449 | 0.2702 | 0.3412 |
| **39** | 0.2605 | 0.3081 | 0.3621 | 0.3978 | 0.4950 | **89** | 0.1735 | 0.2061 | 0.2435 | 0.2687 | 0.3393 |
| **40** | 0.2573 | 0.3044 | 0.3578 | 0.3932 | 0.4896 | **90** | 0.1726 | 0.2050 | 0.2422 | 0.2673 | 0.3375 |
| **41** | 0.2542 | 0.3008 | 0.3536 | 0.3887 | 0.4843 | **91** | 0.1716 | 0.2039 | 0.2409 | 0.2659 | 0.3358 |
| **42** | 0.2512 | 0.2973 | 0.3496 | 0.3843 | 0.4791 | **92** | 0.1707 | 0.2028 | 0.2396 | 0.2645 | 0.3341 |
| **43** | 0.2483 | 0.2940 | 0.3457 | 0.3801 | 0.4742 | **93** | 0.1698 | 0.2017 | 0.2384 | 0.2631 | 0.3323 |
| **44** | 0.2455 | 0.2907 | 0.3420 | 0.3761 | 0.4694 | **94** | 0.1689 | 0.2006 | 0.2371 | 0.2617 | 0.3307 |
| **45** | 0.2429 | 0.2876 | 0.3384 | 0.3721 | 0.4647 | **95** | 0.1680 | 0.1996 | 0.2359 | 0.2604 | 0.3290 |
| **46** | 0.2403 | 0.2845 | 0.3348 | 0.3683 | 0.4601 | **96** | 0.1671 | 0.1986 | 0.2347 | 0.2591 | 0.3274 |
| **47** | 0.2377 | 0.2816 | 0.3314 | 0.3646 | 0.4557 | **97** | 0.1663 | 0.1975 | 0.2335 | 0.2578 | 0.3258 |
| **48** | 0.2353 | 0.2787 | 0.3281 | 0.3610 | 0.4514 | **98** | 0.1654 | 0.1966 | 0.2324 | 0.2565 | 0.3242 |
| **49** | 0.2329 | 0.2759 | 0.3249 | 0.3575 | 0.4473 | **99** | 0.1646 | 0.1956 | 0.2312 | 0.2552 | 0.3226 |
| **50** | 0.2306 | 0.2732 | 0.3218 | 0.3542 | 0.4432 | **100** | 0.1638 | 0.1946 | 0.2301 | 0.2540 | 0.3211 |
|  |  |  |  |  |  |  |  |  |  |  |  |

1. **Tabel t**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Pr | 0.25 | 0.10 | 0.05 | 0.025 | Pr | 0.25 | 0.10 | 0.05 | 0.025 |
| df | 0.50 | 0.20 | 0.10 | 0.050 | df | 0.50 | 0.20 | 0.10 | 0.050 |
| 1 | 100.000 | 307.768 | 631.375 | 1.270.620 | 41 | 0.68052 | 130.254 | 168.288 | 201.954 |
| 2 | 0.81650 | 188.562 | 291.999 | 430.265 | 42 | 0.68038 | 130.204 | 168.195 | 201.808 |
| 3 | 0.76489 | 163.774 | 235.336 | 318.245 | 43 | 0.68024 | 130.155 | 168.107 | 201.669 |
| 4 | 0.74070 | 153.321 | 213.185 | 277.645 | 44 | 0.68011 | 130.109 | 168.023 | 201.537 |
| 5 | 0.72669 | 147.588 | 201.505 | 257.058 | 45 | 0.67998 | 130.065 | 167.943 | 201.410 |
| 6 | 0.71756 | 143.976 | 194.318 | 244.691 | 46 | 0.67986 | 130.023 | 167.866 | 201.290 |
| 7 | 0.71114 | 141.492 | 189.458 | 236.462 | 47 | 0.67975 | 129.982 | 167.793 | 201.174 |
|  |  |  |  |  |  |  |  |  |  |
| 8 | 0.70639 | 139.682 | 185.955 | 230.600 | 48 | 0.67964 | 129.944 | 167.722 | 201.063 |
| 9 | 0.70272 | 138.303 | 183.311 | 226.216 | 49 | 0.67953 | 129.907 | 167.655 | 200.958 |
| 10 | 0.69981 | 137.218 | 181.246 | 222.814 | 50 | 0.67943 | 129.871 | 167.591 | 200.856 |
| 11 | 0.69745 | 136.343 | 179.588 | 220.099 | 51 | 0.67933 | 129.837 | 167.528 | 200.758 |
| 12 | 0.69548 | 135.622 | 178.229 | 217.881 | 52 | 0.67924 | 129.805 | 167.469 | 200.665 |
| 13 | 0.69383 | 135.017 | 177.093 | 216.037 | 53 | 0.67915 | 129.773 | 167.412 | 200.575 |
| 14 | 0.69242 | 134.503 | 176.131 | 214.479 | 54 | 0.67906 | 129.743 | 167.356 | 200.488 |
| 15 | 0.69120 | 134.061 | 175.305 | 213.145 | 55 | 0.67898 | 129.713 | 167.303 | 200.404 |
| 16 | 0.69013 | 133.676 | 174.588 | 211.991 | 56 | 0.67890 | 129.685 | 167.252 | 200.324 |
| 17 | 0.68920 | 133.338 | 173.961 | 210.982 | 57 | 0.67882 | 129.658 | 167.203 | 200.247 |
| 18 | 0.68836 | 133.039 | 173.406 | 210.092 | 58 | 0.67874 | 129.632 | 167.155 | 200.172 |
| 19 | 0.68762 | 132.773 | 172.913 | 209.302 | 59 | 0.67867 | 129.607 | 167.109 | 200.100 |
| 20 | 0.68695 | 132.534 | 172.472 | 208.596 | 60 | 0.67860 | 129.582 | 167.065 | 200.030 |
| 21 | 0.68635 | 132.319 | 172.074 | 207.961 | 61 | 0.67853 | 129.558 | 167.022 | 199.962 |
| 22 | 0.68581 | 132.124 | 171.714 | 207.387 | 62 | 0.67847 | 129.536 | 166.980 | 199.897 |
| 23 | 0.68531 | 131.946 | 171.387 | 206.866 | 63 | 0.67840 | 129.513 | 166.940 | 199.834 |
| 24 | 0.68485 | 131.784 | 171.088 | 206.390 | 64 | 0.67834 | 129.492 | 166.901 | 199.773 |
| 25 | 0.68443 | 131.635 | 170.814 | 205.954 | 65 | 0.67828 | 129.471 | 166.864 | 199.714 |
| 26 | 0.68404 | 131.497 | 170.562 | 205.553 | 66 | 0.67823 | 129.451 | 166.827 | 199.656 |
| 27 | 0.68368 | 131.370 | 170.329 | 205.183 | 67 | 0.67817 | 129.432 | 166.792 | 199.601 |
| 28 | 0.68335 | 131.253 | 170.113 | 204.841 | 68 | 0.67811 | 129.413 | 166.757 | 199.547 |
| 29 | 0.68304 | 131.143 | 169.913 | 204.523 | 69 | 0.67806 | 129.394 | 166.724 | 199.495 |
| 30 | 0.68276 | 131.042 | 169.726 | 204.227 | 70 | 0.67801 | 129.376 | 166.691 | 199.444 |
| 31 | 0.68249 | 130.946 | 169.552 | 203.951 | 71 | 0.67796 | 129.359 | 166.660 | 199.394 |
| 32 | 0.68223 | 130.857 | 169.389 | 203.693 | 72 | 0.67791 | 129.342 | 166.629 | 199.346 |
| 33 | 0.68200 | 130.774 | 169.236 | 203.452 | 73 | 0.67787 | 129.326 | 166.600 | 199.300 |
| 34 | 0.68177 | 130.695 | 169.092 | 203.224 | 74 | 0.67782 | 129.310 | 166.571 | 199.254 |
| 35 | 0.68156 | 130.621 | 168.957 | 203.011 | 75 | 0.67778 | 129.294 | 166.543 | 199.210 |
| 36 | 0.68137 | 130.551 | 168.830 | 202.809 | 76 | 0.67773 | 129.279 | 166.515 | 199.167 |
| 37 | 0.68118 | 130.485 | 168.709 | 202.619 | 77 | 0.67769 | 129.264 | 166.488 | 199.125 |
| 38 | 0.68100 | 130.423 | 168.595 | 202.439 | 78 | 0.67765 | 129.250 | 166.462 | 199.085 |
| 39 | 0.68083 | 130.364 | 168.488 | 202.269 | 79 | 0.67761 | 129.236 | 166.437 | 199.045 |
| 40 | 0.68067 | 130.308 | 168.385 | 202.108 | 80 | 0.67757 | 129.222 | 166.412 | 199.006 |

**LAMPIRAN 6**

**PERHITUNGAN MANUAL**

1. Data untuk mencari hubungan variabel Xdan Y

X = 1495

Y = 1509

X2 = 64367

Y2 = 65545

∑X.Y = 64905

1. Uji r
2. *rxy* = $\frac{n (∑xy)-(∑x)(∑y)}{\sqrt{[n(∑x^{2})-\left(∑x\right)^{2}.n(∑y^{2})-\left(∑y\right)^{2}]}}$

 *rxy* = $\frac{n (∑x1y)-(∑x1)(∑y)}{\sqrt{[n∑x1^{2}-\left(∑x1\right)^{2}.n(∑y^{2})-\left(∑y\right)^{2}]}}$

 =$\frac{35\left(64905\right)-\left(1495\right)(1509)}{\sqrt{35\left(64367\right)-\left(1495\right)^{2}.35\left(65545\right)-(1509)²}}$

 =$\frac{\left(2271675\right)-\left(2255955\right)}{\sqrt{\left(2252845\right)-(2235025).\left(2294075\right)-(2277081)}}$ = $\frac{\left(15720\right)}{\sqrt{(17820).\left(16994\right)}}$

 = $\frac{\left(15720\right)}{\sqrt{(302833080)}}$

 = 0,9033392588(dibulatkan menjadi 0,903)

1. **Regresi Linear Sederhana**

Diketahui:

X = 1495

Y = 1509

X2 = 64367

Y2 = 65545

∑X.Y = 64905

Dimana:

$$α=\frac{(\sum\_{}^{}Y)(\sum\_{}^{}X^{2})-(\sum\_{}^{}X)(\sum\_{}^{}XY)}{n\left(\sum\_{}^{}X^{2}\right)-(\sum\_{}^{}X)^{2}}$$

$$α=\frac{\left(1509\right)\left(64367\right)-(1495)(64905)}{35\left(64367\right)-(1495)^{2}}$$

$$α=\frac{97129803-97032975}{2252845-2235025}$$

$$α=\frac{96828}{17820}$$

$$α=5,434$$

$$b=\frac{n(\sum\_{}^{}XY)-(\sum\_{}^{}X)(\sum\_{}^{}Y)}{n\left(\sum\_{}^{}X^{2}\right)-(\sum\_{}^{}X)^{2}}$$

$$b=\frac{35\left(64905\right)-\left(1495\right)\left(1509\right)}{35\left(64367\right)-\left(1495\right)^{2}}$$

$$b=\frac{2271675-2255955}{2252845-2235025}$$

$$b=\frac{15720}{17820}$$

$$b=0,882$$

Y = a + bX

Y = 5434 + 0,882

1. **Uji t**

$$t=\frac{r\sqrt{n-2}}{\sqrt{1-r²}}$$

$$t=\frac{0,903\sqrt{35-2}}{\sqrt{1-\left(0,903\right)^{2}}}$$

$$t=\frac{0,903\sqrt{33}}{\sqrt{1-\left(0,815409\right)}}$$

$$t=\frac{0,903 (5,74)}{\sqrt{0,184591}}$$

$$t=\frac{5,1832}{0,4296}$$

$$t=12,065$$

1. **Uji Determinasi (R2)**

$$KD=r^{2} x 100\%$$

$$KD=0,903^{2} x 100\%$$

$$KD=0,816 x 100\%$$

$$KD=816\%$$