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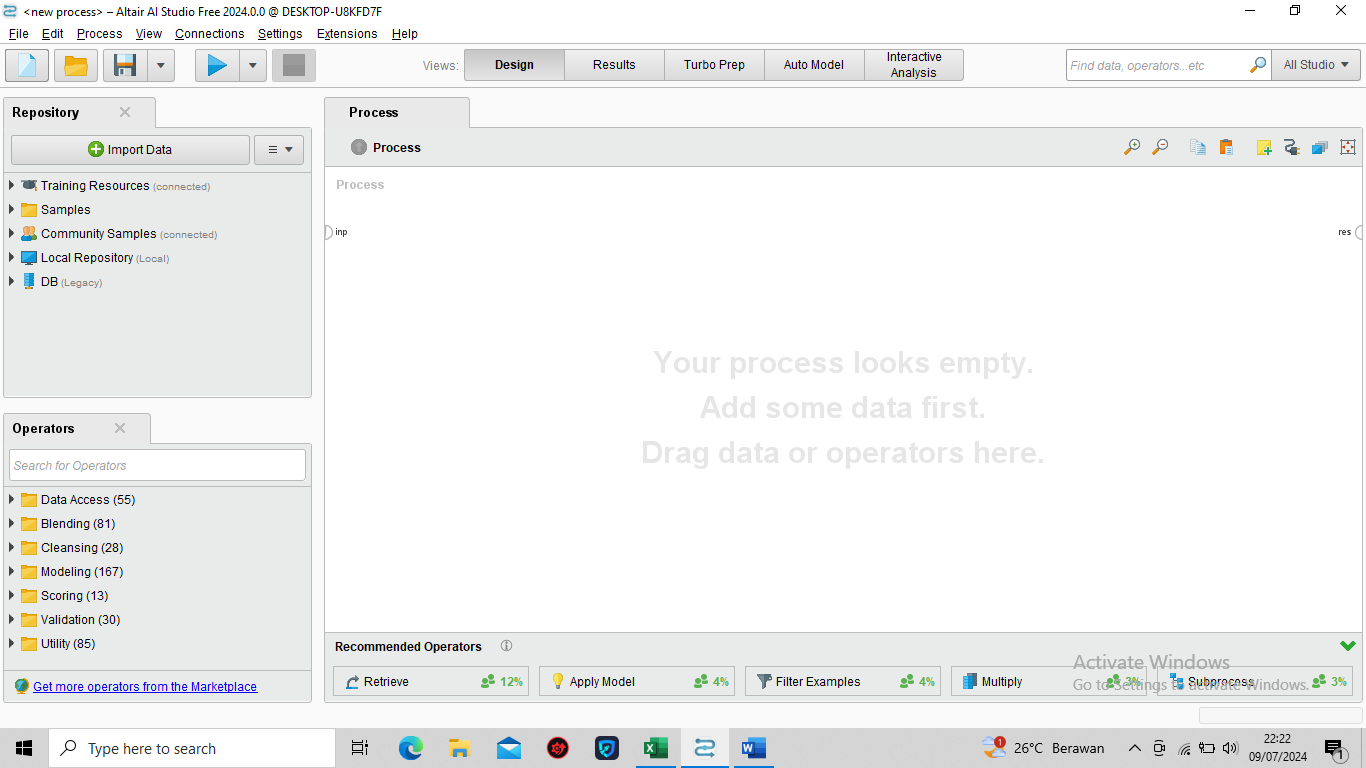
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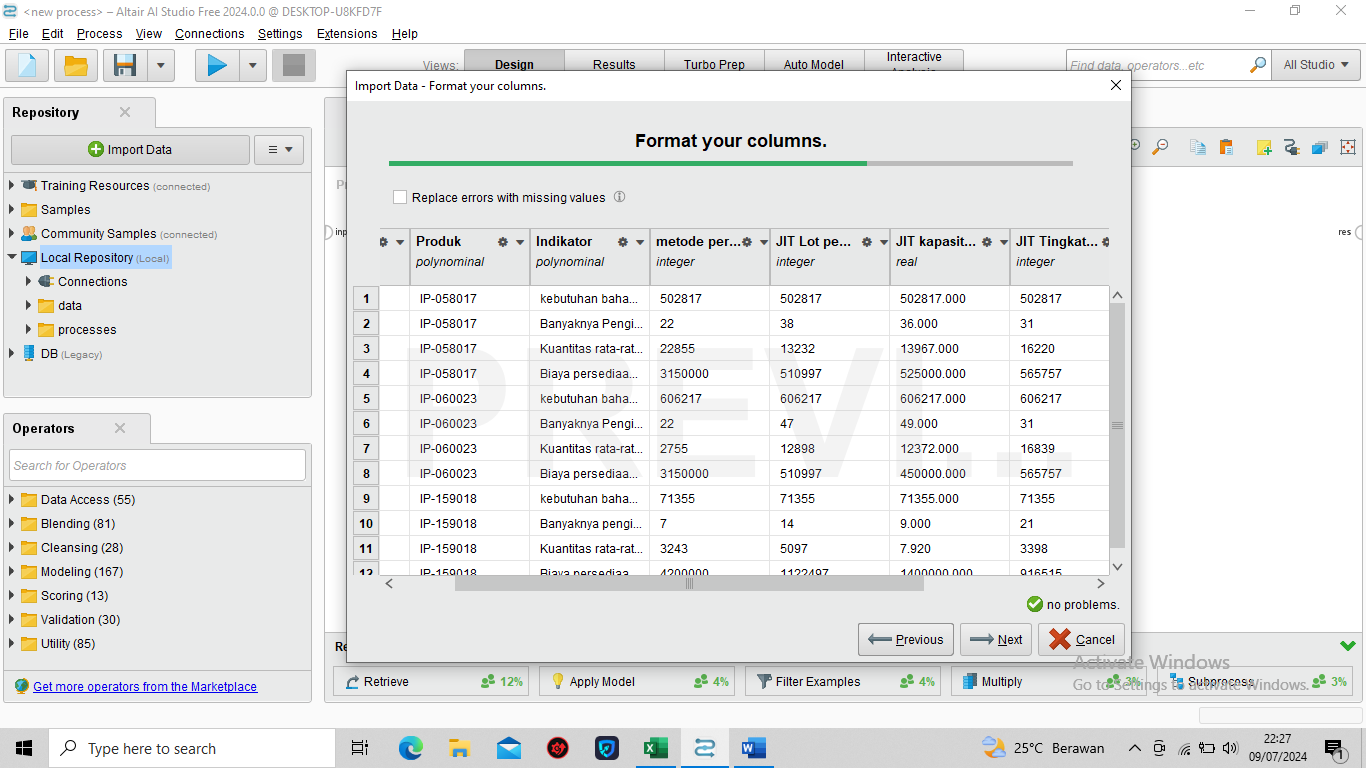
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# LAMPIRAN

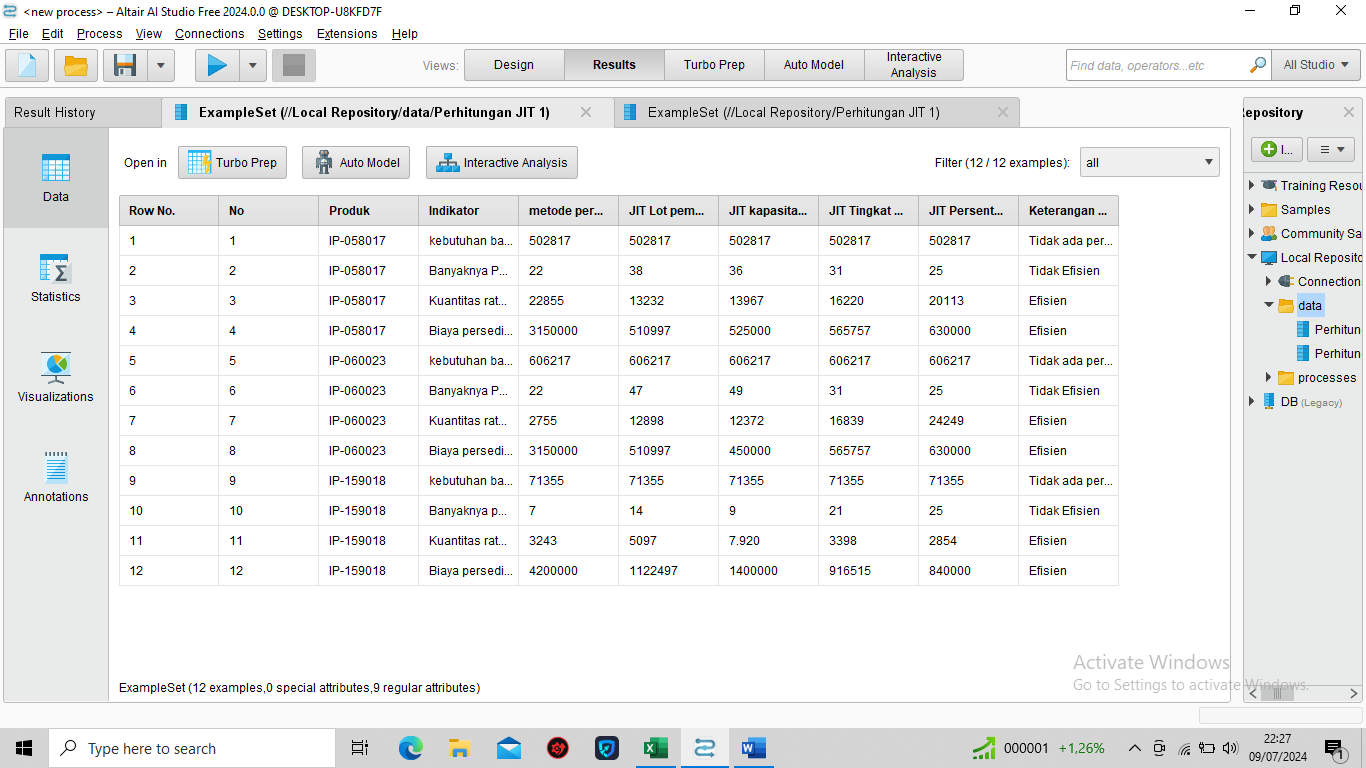
1. Langkah - langkah penggunaan software *rappidminer*



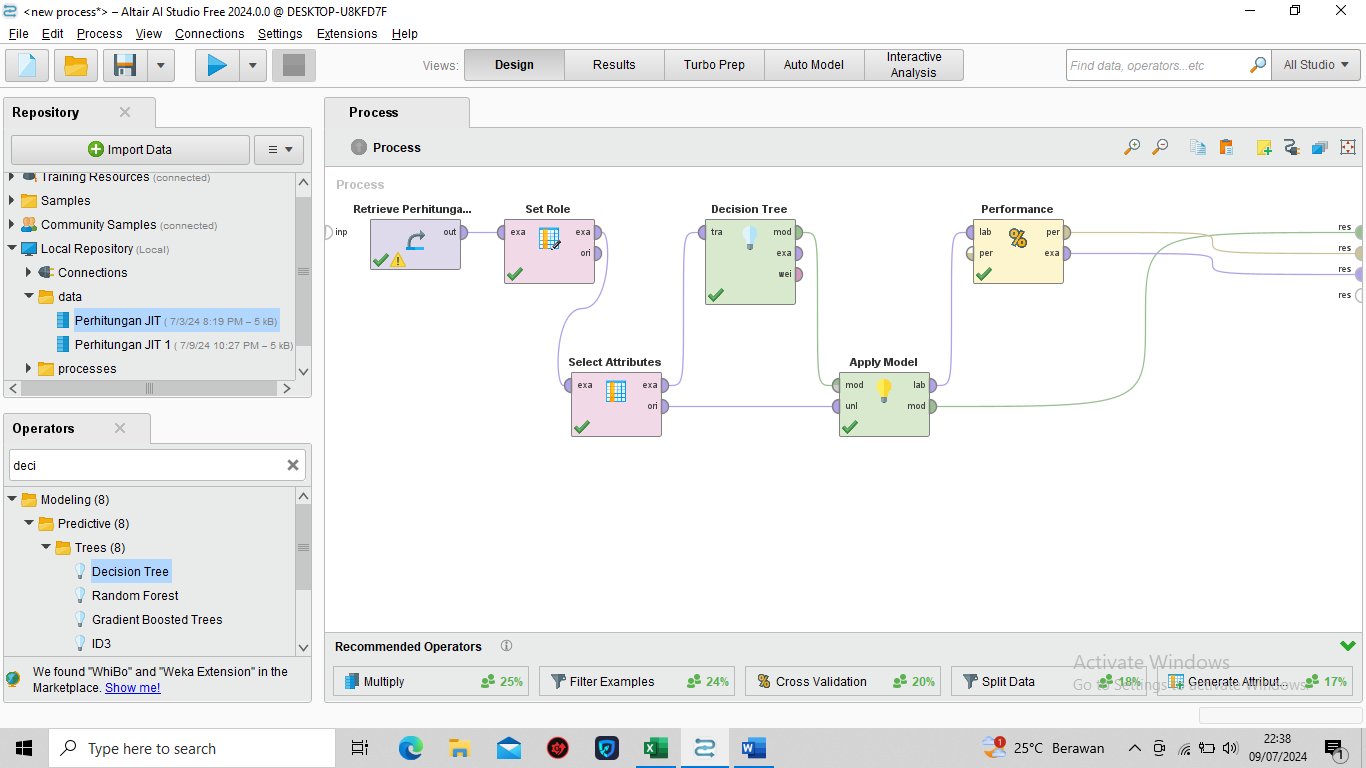
**Lampiran 1** Tampilan Awal Software Rappid Miner



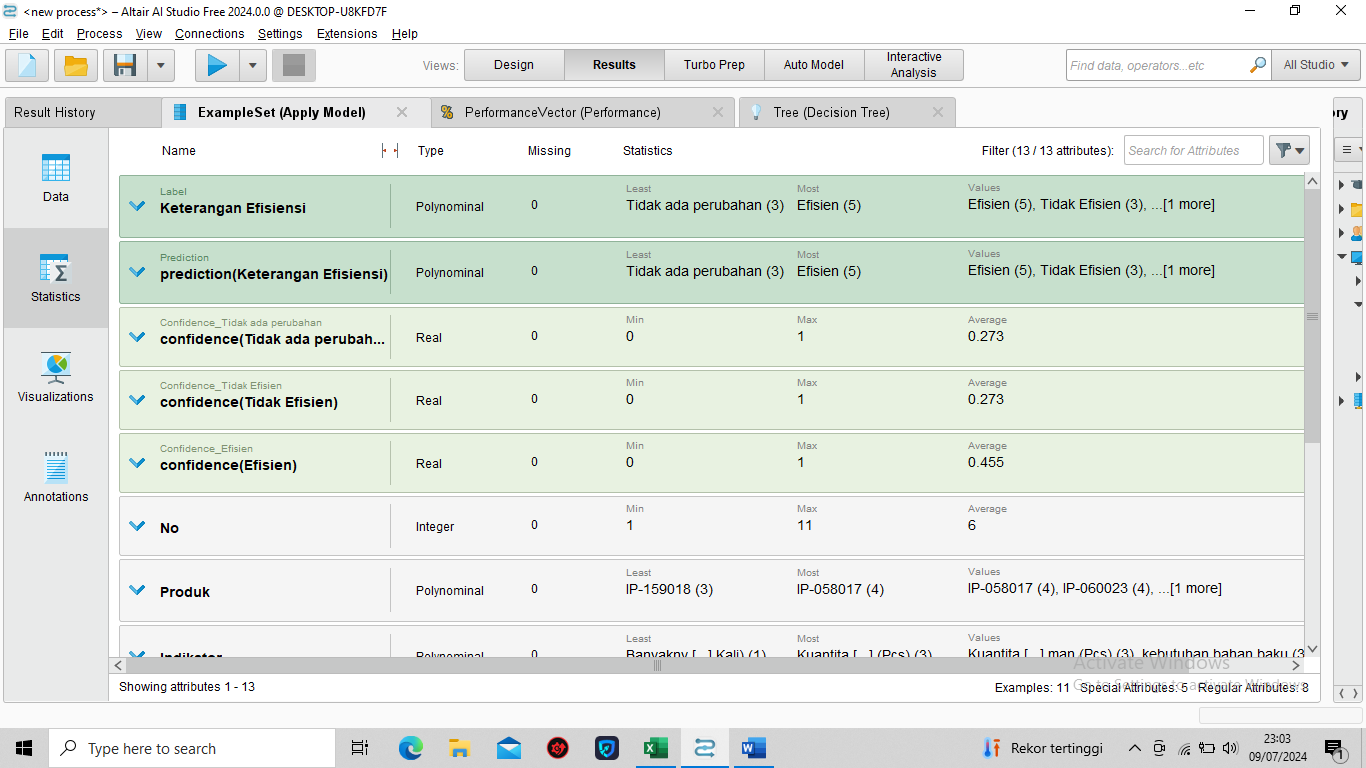
**Lampiran 2** Input data hasil penelitian



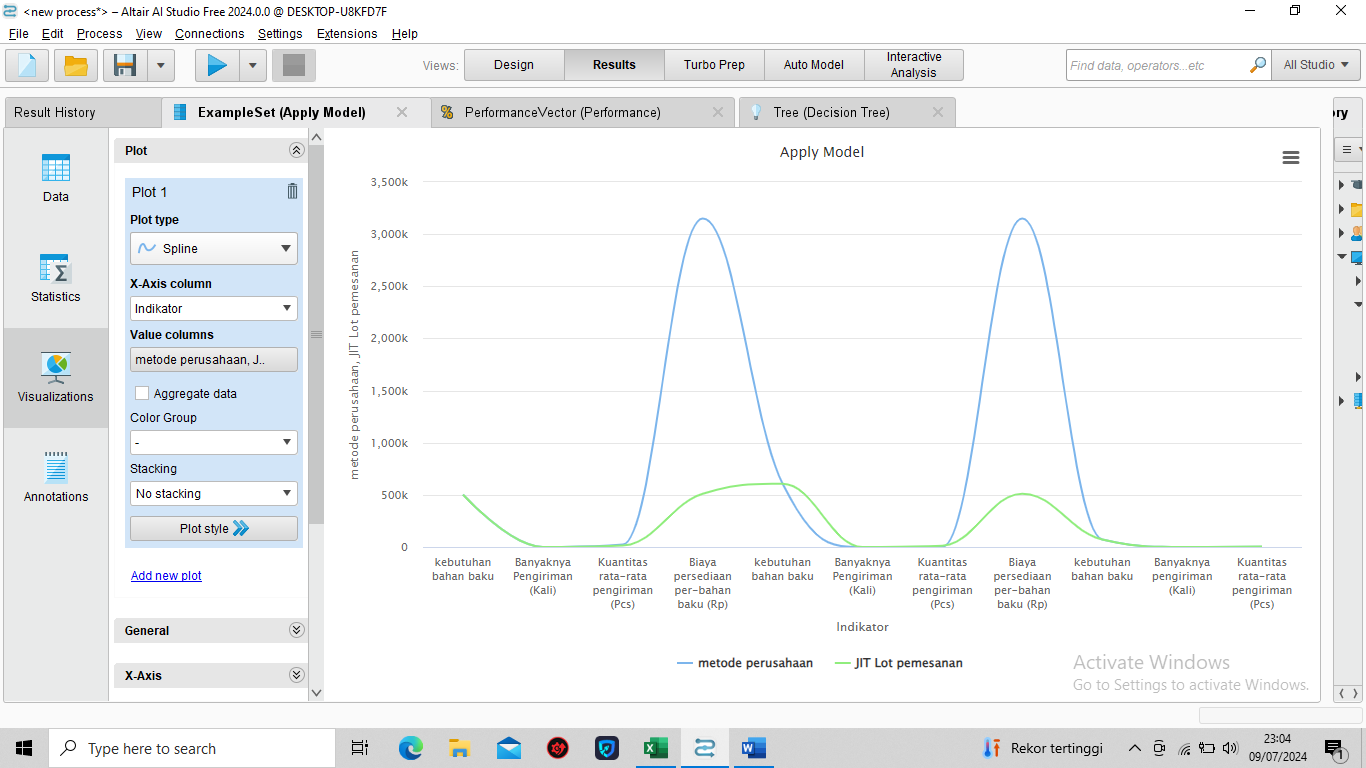
**Lampiran 3** Data yang akan diolah



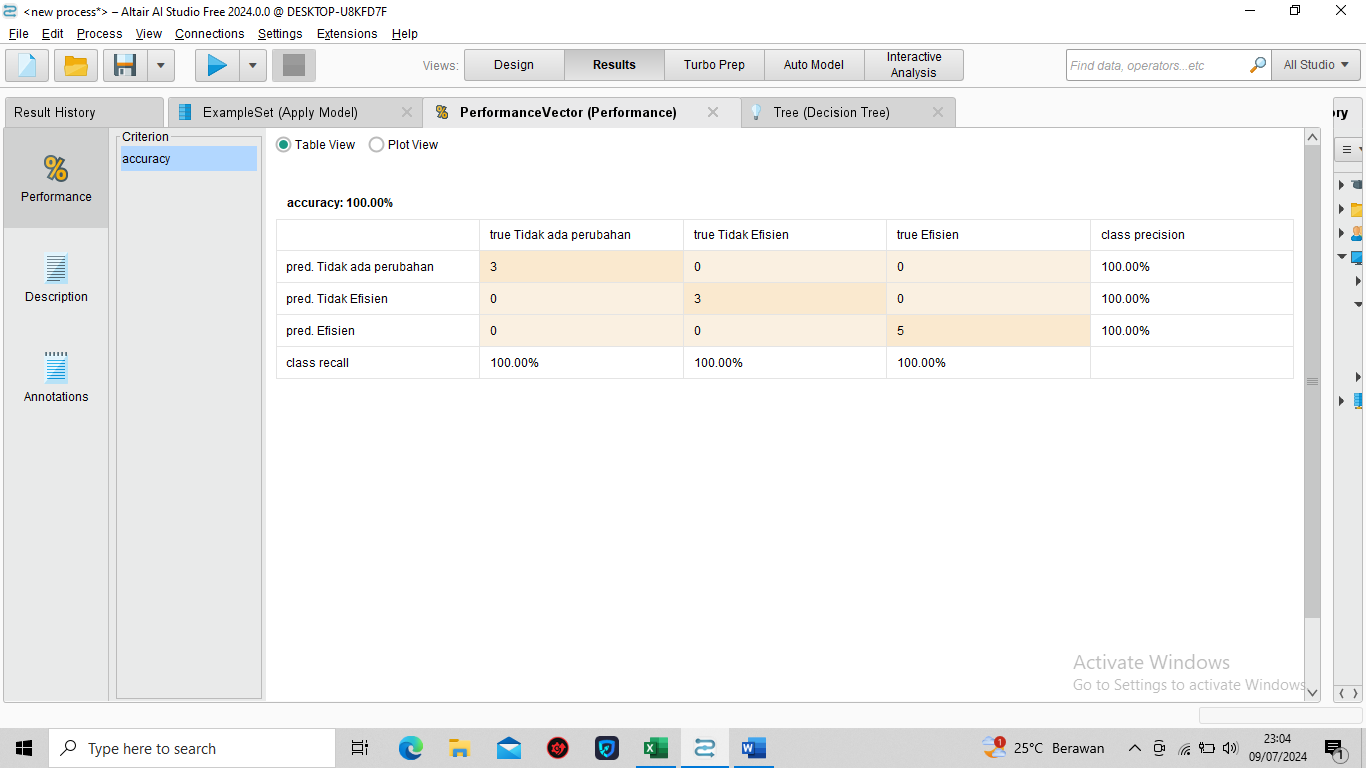
**Lampiran 4** Tools Decision Tree



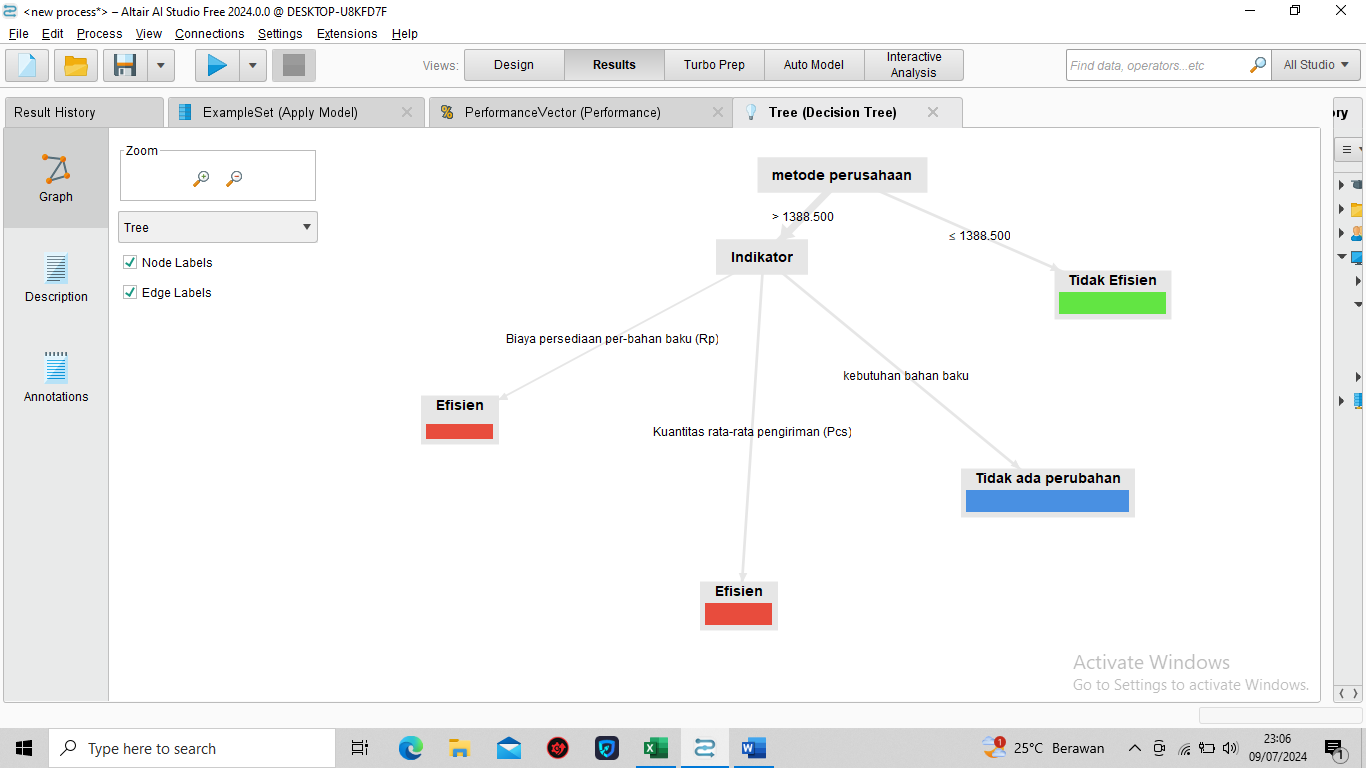
**Lampiran 5** Hasil Pengolahan Data



**Lampiran 6** Grafik Perbandingan



**Lampiran 7** Nilai Accuracy Performance



**Lampiran 8** Decision Tree berdasarkan Efisiensi

1. Dokumentasi Penelitian



**Lampiran 9** Pengambilan Data Perusahaan



**Lampiran 10** Wawancara Pada Departemen Inventory

1. *Data Perusahaan*
2. Data Persediaan Awal Bulan Januari – Desember 2023

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **PERIODE** | **PRODUK** | | | | | | |
| **No** | **IP-058017 (Lot)** | **IP-060023 (Lot)** | **IP-090015 (Lot)** | **IP-106007 (Lot)** | **IP-122024 (Lot)** | **IP-159018 (Lot)** | **IP-169001 (Lot)** |
| **1** | **Januari** | 30 | 45 | 0 | 1 | 5 | 20 | 3 |
| **2** | **Februari** | 36 | 16 | 9 | 5 | 3 | 7 | 0 |
| **3** | **Maret** | 26 | 14 | 7 | 0 | 6 | 18 | 0 |
| **4** | **April** | 23 | 12 | 5 | 0 | 3 | 9 | 0 |
| **5** | **Mei** | 33 | 21 | 8 | 6 | 4 | 26 | 1 |
| **6** | **Juni** | 15 | 8 | 13 | 3 | 0 | 20 | 0 |
| **7** | **Juli** | 15 | 23 | 9 | 5 | 0 | 17 | 1 |
| **8** | **Agustus** | 23 | 15 | 9 | 1 | 0 | 21 | 3 |
| **9** | **September** | 38 | 12 | 8 | 2 | 8 | 24 | 1 |
| **10** | **Oktober** | 24 | 9 | 0 | 3 | 0 | 17 | 0 |
| **11** | **November** | 9 | 16 | 0 | 0 | 4 | 8 | 0 |
| **12** | **Desember** | 17 | 31 | 2 | 0 | 0 | 13 | 0 |

1. Data *Finish Good* dan Kebutuhan Produksi

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Periode** | ***Finish Good*** | | | **Kebutuhan Bahan Baku** | | |
| **No** | **IP-058017 (Pcs)** | **IP-060023 (Pcs)** | **IP -159018 (Pcs)** | **IP - 058017 (Pcs)** | **IP - 060023 (Pcs)** | **IP - 159018 (Pcs)** |
| **1** | **Januari** | 102.539 | 175.841 | 17.879 | 106.811 | 183.168 | 18.624 |
| **2** | **Februari** | 6.653 | 1.521 | 7.860 | 6.930 | 1.584 | 7.682 |
| **3** | **Maret** | 63.645 | 55.204 | 5.394 | 66.297 | 57.504 | 5.619 |
| **4** | **April** | 76.998 | 16.174 | 1.961 | 80.206 | 16.848 | 2.043 |
| **5** | **Mei** | 90.559 | 29.215 | 3.851 | 94.332 | 30.432 | 4.011 |
| **6** | **Juni** | 0 | 26.817 | 1.503 | 0 | 27.934 | 1.566 |
| **7** | **Juli** | 8.940 | 29.445 | 4.563 | 9.312 | 30.672 | 4.753 |
| **8** | **Agustus** | 26.832 | 32.899 | 4.302 | 27.950 | 34.270 | 4.481 |
| **9** | **September** | 26.784 | 32.899 | 4.304 | 27.900 | 34.270 | 4.483 |
| **10** | **Oktober** | 26.868 | 32.899 | 5.851 | 27.987 | 34.270 | 6.095 |
| **11** | **November** | 32.264 | 65.388 | 6.459 | 33.608 | 68.112 | 6.728 |
| **12** | **Desember** | 20.625 | 83.667 | 4.573 | 21.484 | 87.153 | 4.728 |
| **Total** | | 482.704 | 581.968 | 68.501 | 502.817 | 606.217 | 71.355 |

1. Biaya Persediaan

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Biaya pemesanan** | Biaya (Rp) | |
| 1 | Biaya Wifi, Telepon, materai | | 2.000.000 |
| 2 | Biaya administrasi | | 1.500.000 |
| 3 | Biaya pengiriman dan transportasi | | 2.500.000 |
|  | **Total Biaya Pemesanan** | | **6.000.000** |
| **No** | **Biaya Penyimpanan** | | |
| 1 | Biaya pemeliharaan bahan baku | | 26.000.000 |
| 2 | Biaya resiko kerugian | | 5.300.000 |
| 3 | Biaya listrik gudang | | 4.700.000 |
|  | **Total Biaya Penyimpanan** | | **36.000.000** |
| **Total biaya persediaan** | | | **42.000.000** |

1. Data Produk
2. IP-058017 (PT. Isuzu Astra Motor Indonesia)

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **PERIODE** | **Persediaan Awal** | | **Pembelian** | | **Kebutuhan Bahan Baku** | | **Persediaan Akhir** | | **Jumlah Pembelian (Rupiah)** | **Frekuensi (Kali)** |
| **Lot** | **Pcs** | **Lot** | **Pcs** | **pcs** | **Lot** | **Lot** | **Pcs** |
| **Januari** | 30 | 21.000 | 159 | 111300 | 153 | 106.811 | 36 | 25.200 | 5.565.000 | 4 |
| **Februari** | 36 | 25.200 | - | - | 10 | 6.930 | 26 | 18.200 | - | - |
| **Maret** | 26 | 18.200 | 92 | 64400 | 95 | 66.297 | 23 | 16.100 | 3.220.000 | 3 |
| **April** | 23 | 16.100 | 125 | 87500 | 115 | 80.206 | 33 | 23.100 | 4.375.000 | 4 |
| **Mei** | 33 | 23.100 | 117 | 81900 | 135 | 94.332 | 15 | 10.500 | 4.095.000 | 3 |
| **Juni** | 15 | 10.500 | - | - | - | - | 15 | 10.500 | *-* | - |
| **Juli** | 15 | 10.500 | 21 | 14700 | 13 | 9.312 | 23 | 16.100 | 735.000 | 1 |
| **Agustus** | 23 | 16.100 | 55 | 38500 | 40 | 27.950 | 38 | 26.600 | 1.925.000 | 2 |
| **September** | 38 | 26.600 | 26 | 18200 | 40 | 27.900 | 24 | 16.800 | 910.000 | 1 |
| **Oktober** | 24 | 16.800 | 25 | 17500 | 40 | 27.987 | 9 | 6.300 | 875.000 | 1 |
| **November** | 9 | 6.300 | 56 | 39200 | 48 | 33.608 | 17 | 11.900 | 1.960.000 | 2 |
| **Desember** | 17 | 11.900 | 20 | 14000 | 31 | 21.484 | 6 | 4.200 | 700.000 | 1 |
| **Jumlah** | **289** | **202.300** | **696** | **487.200** | **718** | **502.817** | **265** | **185.500** | **24.360.000** | **22** |

1. IP-060023 (PT. Nichias Metalwork Indonesia)

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Bulan** | **Persediaan awal** | | **Pembelian** | | **Kebutuhan produksi** | | **Persediaan akhir** | | **Jumlah Pembelian (Rupiah)** | **Frekuensi (Kali)** |
| **Lot** | **Pcs** | **Lot** | **Pcs** | **Lot** | **Pcs** | **Lot** | **Pcs** |
| **Januari** | **45** | 36.000 | 200 | 160.000 | 229 | 183.168 | 16 | 12.832 | 7.600.000 | 6 |
| **Februari** | **16** | 12.800 | 0 | 0 | 2 | 1.584 | 14 | 11.216 | - | 0 |
| **Maret** | **14** | 11.200 | 70 | 56.000 | 72 | 57.504 | 12 | 9.696 | 2.660.000 | 2 |
| **April** | **12** | 9.600 | 30 | 24.000 | 21 | 16.848 | 21 | 16.752 | 1.140.000 | 1 |
| **Mei** | **21** | 16.800 | 25 | 20.000 | 38 | 30.432 | 8 | 6.368 | 950.000 | 1 |
| **Juni** | **8** | 6.400 | 50 | 40.000 | 35 | 27.934 | 23 | 18.466 | 1.900.000 | 1 |
| **Juli** | **23** | 18.400 | 30 | 24.000 | 38 | 30.672 | 15 | 11.728 | 1.140.000 | 1 |
| **Agustus** | **15** | 12.000 | 40 | 32.000 | 43 | 34.270 | 12 | 9.730 | 1.520.000 | 1 |
| **September** | **12** | 9.600 | 40 | 32.000 | 43 | 34.270 | 9 | 7.330 | 1.520.000 | 2 |
| **Oktober** | **9** | 7.200 | 50 | 40.000 | 43 | 34.270 | 16 | 12.930 | 1.900.000 | 1 |
| **November** | **16** | 12.800 | 100 | 80.000 | 85 | 68.112 | 31 | 24.688 | 3.800.000 | 3 |
| **Desember** | **31** | 24.800 | 100 | 80.000 | 109 | 87.153 | 22 | 17.647 | 3.800.000 | 3 |
| **Jumlah** | **222** | **177.600** | **735** | **588.000** | **758** | **606.217** | **199** | **159.383** | **27.930.000** | **22** |

1. IP-159018 (PT. Chemco Astra Indonesia)

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Bulan** | **Persediaan awal** | | **Pembelian** | | **Kebutuhan Bahan Baku** | | **Persediaan akhir** | | **Jumlah Pembelian (Rupiah)** | **Frekuensi** |
| **Lot** | **Pcs** | **Lot** | **Pcs** | **Lot** | **Pcs** | **Lot** | **Pcs** |
| **Januari** | 20 | 13.000 | 18 | 11.700 | 29 | 18.624 | 9 | 6.076 | 900.000 | 1 |
| **Februari** | 9 | 5.850 | 21 | 13.650 | 12 | 8.188 | 18 | 11.818 | 1.050.000 | 1 |
| **Maret** | 18 | 11.700 | 0 | 0 | 9 | 5.619 | 9 | 6.081 | - | 0 |
| **April** | 9 | 5.850 | 20 | 13.000 | 3 | 2.043 | 26 | 16.807 | 1.000.000 | 1 |
| **Mei** | 26 | 16.900 | 0 | 0 | 6 | 4.011 | 20 | 12.889 | - | 0 |
| **Juni** | 20 | 13.000 | 0 | 0 | 3 | 1.566 | 17 | 11.110 | - | 0 |
| **Juli** | 17 | 11.050 | 11 | 7.150 | 7 | 4.753 | 21 | 13.447 | 550.000 | 1 |
| **Agustus** | 21 | 13.650 | 10 | 6.500 | 7 | 4.481 | 24 | 15.669 | 500.000 | 1 |
| **September** | 24 | 15.600 | 0 | 0 | 7 | 4.483 | 17 | 11.117 | - | 0 |
| **Oktober** | 17 | 11.050 | 0 | 0 | 9 | 6.095 | 8 | 4.955 | - | 0 |
| **November** | 8 | 5.200 | 15 | 9.750 | 10 | 6.728 | 13 | 8.222 | 750.000 | 1 |
| **Desember** | 13 | 8.450 | 10 | 6.500 | 8 | 5.073 | 15 | 9.877 | 500.000 | 1 |
| **Jumlah** | **202** | **131.300** | **105** | **68.250** | **110** | **71.355** | **197** | **128.068** | **Rp 5.250.000** | **7** |

1. Data Kapasitas Bahan Baku dan Rata-rata Persediaan dalam satu tahun terakhir

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Produk** | **Kapasitas Bahan Baku** | | **Rata-rata Persediaan** | |
| **Lot** | **Pcs** | **Lot** | **Pcs** |
| 1 | IP-058017 | 120 | 84.000 | 65 | 45.500 |
| 2 | IP-060023 | 108 | 86.400 | 78 | 54.400 |
| 3 | IP-159018 | 36 | 23.400 | 12 | 7.800 |