



**PT LENKO SURYA PERKASA**

## Laporan Pengelompokan Produk PT. Lenko Surya Perkasa Sidoarjo Tahun 2019

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Tahun 2019

### Hasil Pengelompokan Data Produk

Berikut adalah Medoid dan Hasil Pengelompokan Data Produk PT. Lenko Surya Perkasa pada Tahun 2019

### Tabel Medoid Data Produk

Karakteristik produk dapat dilihat dari karakteristik medoid tiap cluster.

| Produk                | Produk Rusak | TOR                  | WSP                | Cluster |
|-----------------------|--------------|----------------------|--------------------|---------|
| Lauramox              | 0            | 0.0                  | 0.0                | 0       |
| IPB 101 @36           | 0            | 0.015128593040847202 | 24126.5            | 1       |
| OBH Anak Sachet       | 1439         | 0.3901060070671378   | 935.6431159420289  | 2       |
| OBH Anak Orange 55 ml | 47           | 10.213836477987421   | 35.735837438423644 | 3       |
| OBH 55 ml             | 0            | 4.215377646925603    | 86.58773437919733  | 4       |

# Tabel Hasil Pengelompokan Produk

Produk yang telah dikelompokkan dapat dilihat pada tabel dibawah. Tabel telah diurutkan berdasarkan cluster.

| Produk                         | Produk Rusak | TOR                | WSP                | Cluster |
|--------------------------------|--------------|--------------------|--------------------|---------|
| IPS 104                        | 0            | 0.0                | 0.0                | 0       |
| Rh. Minyak Gosok 30 ml         | 0            | 0.0                | 0.0                | 0       |
| Rh. Minyak Gosok 60 ml         | 0            | 0.0                | 0.0                | 0       |
| Rh.Balsem Sereh 15 gr          | 0            | 0.0                | 0.0                | 0       |
| Rh. Aromatherapy               | 1            | 2.0579710144927534 | 177.35915492957747 | 0       |
| Rh. Minyak Angin Putih roll on | 9            | 0.0                | 0.0                | 0       |
| Rod Lotion 100 ml              | 0            | 0.0                | 0.0                | 0       |
| Rod Lotion 60 ml               | 0            | 1.7058823529411764 | 213.96551724137933 | 0       |
| Rod Powder 60 gr               | 7            | 0.5036674816625917 | 724.6844660194175  | 0       |
| Rod Powder 100 gr ( 1C=144     | 0            | 0.5843828715365239 | 624.5905172413793  | 0       |
| Rod Powder Nat 60 gr           | 16           | 1.1366120218579234 | 321.12980769230774 | 0       |
| Rod Powder Nat 100 gr          | 46           | 1.7                | 214.7058823529412  | 0       |
| IPB 103                        | 0            | 0.1601489757914339 | 2279.1279069767443 | 0       |
| Rh. Inhaler                    | 11           | 2.0539956803455723 | 177.7024185068349  | 0       |
| Salycil Mentol 90 gr @ 6 ls    | 2            | 0.0                | 0.0                | 0       |
| Salycil Cool n Fresh           | 12           | 0.8729641693811075 | 418.11567164179104 | 0       |
| Salicyl genesis 60 gr@ 18 ls   | 6            | 0.6857142857142857 | 532.2916666666666  | 0       |
| Dinner Napkin                  | 80           | 0.0                | 0.0                | 0       |
| Nasa Napkin e-xtra 30's        | 282          | 0.0                | 0.0                | 0       |
| Monalisa Special 8             | 0            | 0.0                | 0.0                | 0       |
| Monalisa Plus 6                | 0            | 0.0                | 0.0                | 0       |
| IPB 102 @72                    | 1            | 1.6058588548601864 | 227.2927031509121  | 0       |
| IPM 104 @36                    | 0            | 0.432              | 844.9074074074074  | 0       |
| Monalisa Plus 12               | 0            | 0.0                | 0.0                | 0       |
| IPN 110 @36                    | 0            | 1.937142857142857  | 188.42182890855457 | 0       |
| IPS 102 @36                    | 0            | 0.0657030223390276 | 5555.3             | 0       |
| IPS 110 @36                    | 0            | 1.4434782608695653 | 252.86144578313252 | 0       |
| Salycil Non Mentol 90 gr       | 16           | 0.0                | 0.0                | 0       |
| Rh. Green balm I               | 5            | 1.7791411042944785 | 205.1551724137931  | 0       |
| Rh.Classic 15 gr               | 9            | 0.0                | 0.0                | 0       |
| Nellcoplus 100 ml              | 0            | 1.3133333333333332 | 277.9187817258883  | 0       |

| Produk                    | Produk Rusak | TOR                  | WSP                | Cluster |
|---------------------------|--------------|----------------------|--------------------|---------|
| Minyak kayu putih 30 ml   | 1            | 0.0                  | 0.0                | 0       |
| Minyak kayu putih 60 ml   | 8            | 0.0                  | 0.0                | 0       |
| Minyak Telon 30 ml        | 0            | 0.0                  | 0.0                | 0       |
| Minyak Telon 60 ml        | 6            | 0.0                  | 0.0                | 0       |
| Roll Tanpa Kor Polos @ 10 | 1            | 1.1665150136487716   | 312.8978159126365  | 0       |
| Dermol                    | 20           | 0.13799448022079117  | 2645.0333333333333 | 0       |
| IPA 103                   | 217          | 0.0                  | 0.0                | 0       |
| Dexanel                   | 12           | 1.1355932203389831   | 321.4179104477612  | 0       |
| IPA 111                   | 18           | 0.0                  | 0.0                | 0       |
| IPA 108                   | 65           | 0.0                  | 0.0                | 0       |
| Flukol X-tra box          | 0            | 0.0                  | 0.0                | 0       |
| Minyak Telon Nellco 30 ml | 0            | 0.0                  | 0.0                | 0       |
| Mkp Nellco 30 ml          | 0            | 0.0                  | 0.0                | 0       |
| Mkp Nellco 60 ml          | 0            | 0.0                  | 0.0                | 0       |
| OBH 30 ml                 | 0            | 0.0                  | 0.0                | 0       |
| Sunbrite Spon             | 0            | 0.06420404573438875  | 5685.0             | 0       |
| OBH anak 100 ml           | 33           | 0.0                  | 0.0                | 0       |
| Lauramox                  | 0            | 0.0                  | 0.0                | 0       |
| IPA 110                   | 52           | 0.0                  | 0.0                | 0       |
| IPA 105                   | 7            | 0.5484949832775919   | 665.4573170731708  | 0       |
| OBH anak 30 ml            | 0            | 0.0                  | 0.0                | 0       |
| Sunbrite sabut cuci       | 0            | 0.04361016306408798  | 8369.608695652174  | 0       |
| Minyak Telon Nellco 60 ml | 0            | 0.0                  | 0.0                | 0       |
| Kalk tab 30'              | 0            | 1.6058041112454655   | 227.3004518072289  | 0       |
| IPB 101 @36               | 0            | 0.015128593040847202 | 24126.5            | 1       |
| OBH Anak Sachet           | 1439         | 0.3901060070671378   | 935.6431159420289  | 2       |
| Facial polos small        | 38           | 12.359550561797754   | 29.53181818181818  | 3       |
| Nasa Roll                 | 0            | 8.04974368710841     | 45.34305863484127  | 3       |
| OBH Berdahak 100 ml       | 602          | 14.462337662337662   | 25.23796695402299  | 3       |
| Rh.Classic 18 gr (kaca)   | 185          | 9.887323943661972    | 36.91595441595442  | 3       |
| OBH Anak Orange 55 ml     | 47           | 10.213836477987421   | 35.735837438423644 | 3       |
| PHB 54                    | 28           | 6.267921795800145    | 58.23301756007393  | 4       |
| Roll Tanpa Kor @ 20       | 11           | 7.185356454720616    | 50.797758232328654 | 4       |
| Monalisa Maternity        | 0            | 3.835616438356164    | 95.16071428571429  | 4       |
| Nasa Napkin               | 0            | 4.676654641831702    | 78.04724273097932  | 4       |
| Monalisa Jumbo            | 1            | 6.0                  | 60.833333333333336 | 4       |
| OBH Anak Straw 55 ml      | 44           | 4.956521739130435    | 73.64035087719299  | 4       |

| Produk                       | Produk Rusak | TOR                | WSP                | Cluster |
|------------------------------|--------------|--------------------|--------------------|---------|
| Martell lembaran 1 kg        | 0            | 2.859437751004016  | 127.64747191011236 | 4       |
| OBH Anak Straw 100 ml        | 7            | 2.915360501567398  | 125.1989247311828  | 4       |
| OBH Anak Orange 100 ml       | 14           | 5.170588235294118  | 70.59158134243458  | 4       |
| Nellcoplus 55 ml             | 40           | 3.0396039603960396 | 120.0814332247557  | 4       |
| O B H Berdahak 55 ml         | 32           | 3.7674418604651163 | 96.88271604938272  | 4       |
| OBH Spc Jahe 100 ml          | 11           | 3.1892925430210326 | 114.44544364508393 | 4       |
| OBH Madu 100 ml              | 8            | 3.190207156308851  | 114.41263282172373 | 4       |
| OBH Jahe 55 ml               | 34           | 5.051063829787234  | 72.26200505475991  | 4       |
| OBH Madu 55 ml               | 0            | 6.771929824561403  | 53.89896373056995  | 4       |
| OBH 100 ml                   | 20           | 4.835643983490317  | 75.48115643876389  | 4       |
| Martell lembaran 1/2 kg      | 0            | 4.399658411614005  | 82.96098602484473  | 4       |
| OBH 55 ml                    | 0            | 4.215377646925603  | 86.58773437919733  | 4       |
| OBH sachet 7.5 ml 25'        | 195          | 2.42360248447205   | 150.60225525371604 | 4       |
| Rh.White cream 18 gr         | 132          | 4.448956641259528  | 82.04170762533352  | 4       |
| Salicyl Non Mentol 60 gr     | 20           | 3.6923076923076925 | 98.85416666666666  | 4       |
| Aloha Ecopack 56's           | 0            | 4.497737556561086  | 81.15191146881288  | 4       |
| Facial polos large           | 13           | 3.6483516483516483 | 100.04518072289157 | 4       |
| Facial Travel Pack 50's      | 1            | 3.009407858328722  | 121.28631849944831 | 4       |
| Facial Travel Pack Mini      | 29           | 3.6031434184675835 | 101.30043620501635 | 4       |
| IPA 102 @72                  | 0            | 5.491525423728813  | 66.46604938271605  | 4       |
| IPN 104 @36                  | 0            | 2.9                | 125.86206896551724 | 4       |
| OBH anak 55 ml               | 49           | 4.487804878048781  | 81.33152173913042  | 4       |
| Salicyl menthol 60 gr@ 18 ls | 25           | 4.717069368667186  | 77.37855254461336  | 4       |

# Visualisasi Silhouette Score Data Produk

Silhouette Score :  
0.534280696557729

