**Quick Cluster**

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| **Notes** |  |  |
| Output Created |  | 08-SEP-2023 18:52:59 |
| Comments |  |  |
| Input | Data | C:\Users\allan\OneDrive\Desktop\Tesl\archive\Tesla ADj.sav |
| Active Dataset | DataSet1 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 3313 |
| Missing Value Handling | Definition of Missing | User-defined missing values are treated as missing. |
| Cases Used | Statistics are based on cases with no missing values for any clustering variable used. |
| Syntax |  | QUICK CLUSTER volume change\_percent /MISSING=LISTWISE /CRITERIA=CLUSTER(4) MXITER(10) CONVERGE(0) /METHOD=KMEANS(NOUPDATE) /PRINT INITIAL. |
| Resources | Processor Time | 00:00:00.00 |
| Elapsed Time | 00:00:00.05 |
| Workspace Required | 616 bytes |

[DataSet1] C:\Users\allan\OneDrive\Desktop\Tesl\archive\Tesla ADj.sav

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| **Initial Cluster Centers** |  |  |  |  |
|  | Cluster |  |  |  |
| 1 | 2 | 3 | 4 |
| volume | 914081390 | 300954272 | 598211284 | 1779210 |
| change\_percent | 13.73 | -1.75 | 1.94 | .63 |

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| **Iteration History**a |  |  |  |  |
| Iteration | Change in Cluster Centers |  |  |  |
| 1 | 2 | 3 | 4 |
| 1 | .000 | 74694402.801 | 66366945.706 | 66699180.185 |
| 2 | 93861911.000 | 10601299.931 | 67734192.264 | 1006836.438 |
| 3 | 66389474.750 | 12810426.284 | 56001378.943 | 1433973.839 |
| 4 | 54111394.250 | 13671321.027 | 35932214.542 | 1783129.797 |
| 5 | 20322872.143 | 13145671.242 | 23633307.479 | 2326139.551 |
| 6 | .000 | 10291169.841 | 12165634.588 | 2570381.833 |
| 7 | .000 | 7702235.243 | 10615184.381 | 2004466.162 |
| 8 | 21831304.982 | 5968021.212 | 7708449.901 | 1867913.980 |
| 9 | 33519677.375 | 5118128.669 | 7280076.244 | 1789303.118 |
| 10 | 34463843.423 | 4151168.904 | 7245492.154 | 1549200.011 |

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| a. Iterations stopped because the maximum number of iterations was performed. Iterations failed to converge. The maximum absolute coordinate change for any center is 34463843.423. The current iteration is 10. The minimum distance between initial centers is 297257012.000. |  |  |  |  |

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| **Final Cluster Centers** |  |  |  |  |
|  | Cluster |  |  |  |
| 1 | 2 | 3 | 4 |
| volume | 547511767 | 139505627 | 293802099 | 51017124 |
| change\_percent | 2.72 | .29 | .78 | .10 |

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| **Number of Cases in each Cluster** |  |  |
| Cluster | 1 | 19.000 |
| 2 | 1020.000 |
| 3 | 206.000 |
| 4 | 2067.000 |
| Valid |  | 3312.000 |
| Missing |  | 1.000 |