**Summary of Pattern Generation for UC3 dataset POOIM Catalog Excel files**

After going through all the 27 excel files of POOIM Export with Secondary Specs catalog files, here are some observations for pattern generation for product comparison.

1. **Hard Drive:** In this category, the comparison of different hard drives can be done using
2. Name: Xbox, Seagate, etc.
3. Speed in RPM: 1200 rpm, 1500 rpm etc.
4. **Smartphones**: In this category, the comparison of different smartphones can be done using
5. Name: Android, iOS
6. Internet: 4G, 5G
7. Dimensions: 6.5’’ SUPER AMOLED, 6.6’’ SUPER AMOLED, etc.
8. Speed: 2.84 GHz, 3.2 GHz, etc.
9. Cores: Quad-core, Octa-Core, Hexa-Core, etc.
10. **Memory**: In this category, the comparison of different memory can be done using
11. Name: Dell, Lenovo, Sandisk, etc.
12. Storage: 8GB, 16GB, 32 GB, etc.
13. **USB**: In this category, the comparison of different USB can be done using
14. Version: 2.0, 3.0, etc.
15. **UPS**: In this category, the comparison of different UPS can be done using
16. Battery speed: 4000 mAh, 4500 mAh, etc.
17. **Think stations**: In this category, the comparison of different think stations can be done using
18. RAM: 8 GB DDR4, 1 TB, etc.
19. Speed: 2.2 GHz, 3.2 GHz, etc.
20. Core: 10 core, 8 core, etc.
21. **Desktop**: In this category, the comparison of different Desktop can be done using
22. Name: AMD, Intel
23. Series: A-series, Ryzen, i7, i5, etc.
24. RAM: 8GB DDR4, 4GB, etc.
25. SDRAM: 1TB, 256 GB, 2TB HDD, etc.
26. Clock speed: 3.2 GHz, 2.1 GHz, etc.
27. Generation: 5th Gen, 7th Gen, 8th Gen, etc.
28. Cores: Quad-core, 8 core, 10 core, etc.
29. **Mouse**: In this category, the comparison of different mouse can be done using
30. Characteristics: 4-button, Nano optical, Bluetooth, laser wireless, LED Optical, Corded, Ergo, Essential, etc.
31. Name: Dell, HP, Logitech, etc.
32. **ThinkPad:** In this category, the comparison of different Think Pad can be done using
33. Name: Yoga, carbon
34. **Stationary**: In this category, the comparison of different stationary can be done using
35. Material: Steel, Aluminum, etc. (for shears paper)
36. Characteristics: Heavy Duty, Electric, Long arm, Electric rapid, etc. (for stapler)
37. **Ruler**: In this category, the comparison of different rulers can be done using
38. Material: stick, 36 wood yardstick, stainless steel, line site, etc.
39. **Web Camera**: In this category, the comparison of different Web cameras can be done using
40. Characteristics: 120-degree FOV, LED-backlit LCD, Pan Tilt Zoom (PTZ), VoIP 360, 4K Pro, Tap Zoom, Conference Cam connect, video conferencing camera, etc.
41. Resolution: 300 FHD, 400 FHD, 500 FHD (Full High Definition), 4K Ultra HD, 75 in 4K UHD HDR, etc.
42. **Printers**: In this category, the comparison of different printers can be done using
43. Characteristics: Bluetooth, Network ready, 43 ppm Monoprint, etc.
44. Speed: 1200 dpi, 900 dpi, etc.
45. **Calculator**: In this category, the comparison of different calculators can be done using
46. Characteristics: Large button, pocket with hard-shell, etc.
47. Digit: 12-digit LCD, 8-digit LCD, etc.
48. **Cartridge**: In this category, the comparison of different cartridges can be done using
49. Characteristics: 2600 page-yield yellow, 2500 page-yield yellow, etc.