



Eksplorasi Analisis Data

Tugas 1 - Benhard - Statistika -
20244920002



Dataset

Judul: Supermarket sales

Sumber: Kaggle

Isi: 1001 data (Row) dan 17 variable (Column)

Apa yang dianalisis?

Catatan sejarah data penjualan di 3 supermarket berbeda



Isi Dataset

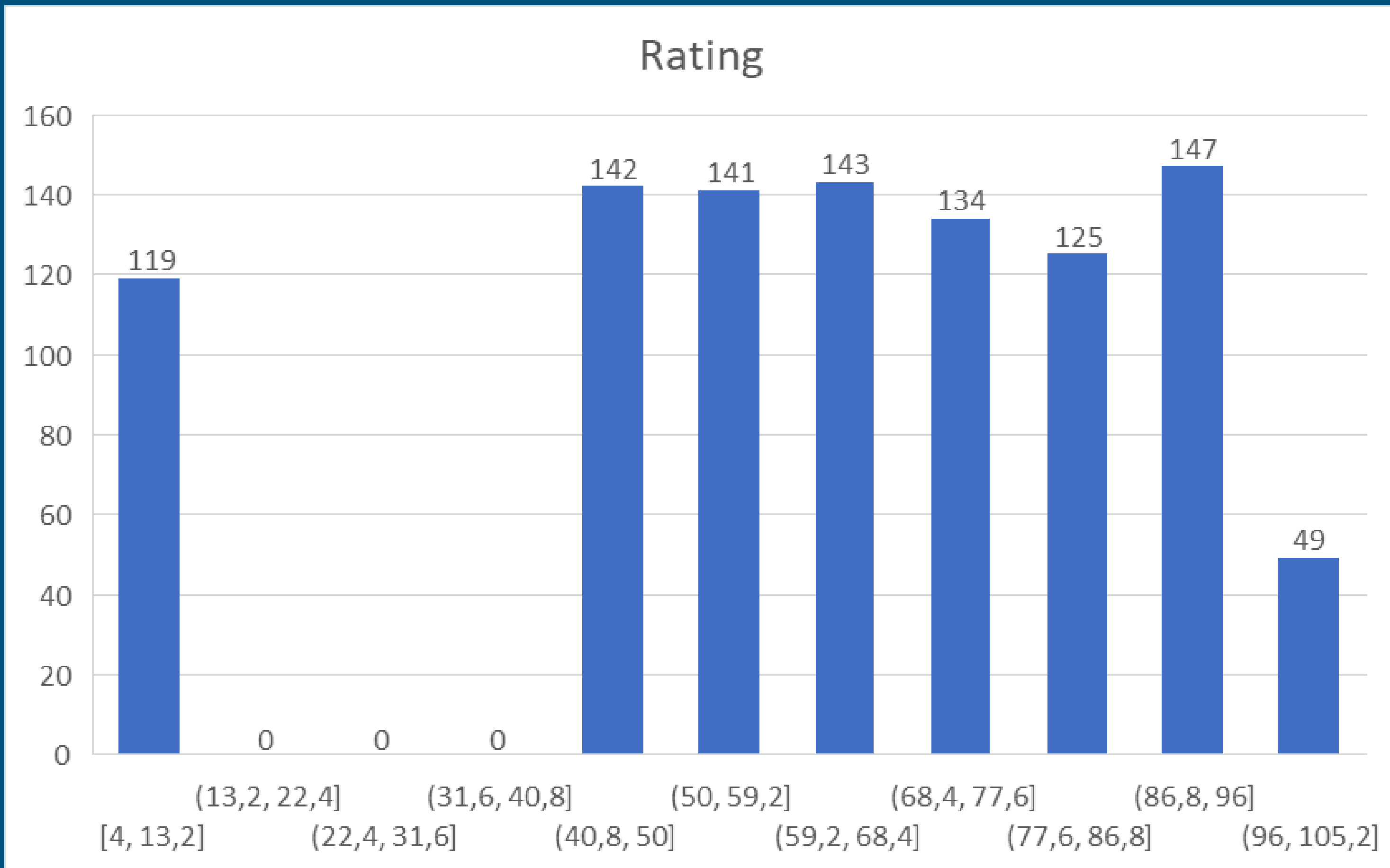


Invoice ID ▾	Branch ▾	City ▾	Customer type ▾	Gender ▾	Product line ▾	Unit price ▾	Quantity ▾	Tax 5% ▾	Total ▾	Date ▾	Time ▾	Payment ▾	cogs ▾	gross margin percentage ▾	gross income ▾	Rating ▾
750-67-8428	A	Yangon	Member	Female	Health and beauty	7469	7	261415	5489715	1/5/2019	13:08:00	Ewallet	52283	4761904762	261415	91
226-31-3081	C	Naypyitaw	Normal	Female	Electronic accessories	1528	5	382	8022	3/8/2019	10:29:00	Cash	764	4761904762	382	96
631-41-3108	A	Yangon	Normal	Male	Home and lifestyle	4633	7	162155	3405255	3/3/2019	13:23:00	Credit card	32431	4761904762	162155	74
123-19-1176	A	Yangon	Member	Male	Health and beauty	5822	8	23288	489048	1/27/2019	20:33:00	Ewallet	46576	4761904762	23288	84
373-73-7910	A	Yangon	Normal	Male	Sports and travel	8631	7	302085	6343785	2/8/2019	10:37:00	Ewallet	60417	4761904762	302085	53
699-14-3026	C	Naypyitaw	Normal	Male	Electronic accessories	8539	7	298865	6276165	3/25/2019	18:30:00	Ewallet	59773	4761904762	298865	41
355-53-5943	A	Yangon	Member	Female	Electronic accessories	6884	6	20652	433692	2/25/2019	14:36:00	Ewallet	41304	4761904762	20652	58
315-22-5665	C	Naypyitaw	Normal	Female	Home and lifestyle	7356	10	3678	77238	2/24/2019	11:38:00	Ewallet	7356	4761904762	3678	8
665-32-9167	A	Yangon	Member	Female	Health and beauty	3626	2	3626	76146	1/10/2019	17:15:00	Credit card	7252	4761904762	3626	72
692-92-5582	B	Mandalay	Member	Female	Food and beverages	5484	3	8226	172746	2/20/2019	13:27:00	Credit card	16452	4761904762	8226	59
351-62-0822	B	Mandalay	Member	Female	Fashion accessories	1448	4	2896	60816	2/6/2019	18:07:00	Ewallet	5792	4761904762	2896	45
529-56-3974	B	Mandalay	Member	Male	Electronic accessories	2551	4	5102	107142	3/9/2019	17:03:00	Cash	10204	4761904762	5102	68
365-64-0515	A	Yangon	Normal	Female	Electronic accessories	4695	5	117375	2464875	2/12/2019	10:25:00	Ewallet	23475	4761904762	117375	71
252-56-2699	A	Yangon	Normal	Male	Food and beverages	4319	10	21595	453495	2/7/2019	16:48:00	Ewallet	4319	4761904762	21595	82
829-34-3910	A	Yangon	Normal	Female	Health and beauty	7138	10	3569	74949	3/29/2019	19:21:00	Cash	7138	4761904762	3569	57
299-46-1805	B	Mandalay	Member	Female	Sports and travel	9372	6	28116	590436	1/15/2019	16:19:00	Cash	56232	4761904762	28116	45
656-95-9349	A	Yangon	Member	Female	Health and beauty	6893	7	241255	5066355	3/11/2019	11:03:00	Credit card	48251	4761904762	241255	46
765-26-6951	A	Yangon	Normal	Male	Sports and travel	7261	6	21783	457443	1/1/2019	10:39:00	Credit card	43566	4761904762	21783	69
329-62-1586	A	Yangon	Normal	Male	Food and beverages	5467	3	82005	1722105	1/21/2019	18:00:00	Credit card	16401	4761904762	82005	86
319-50-3348	B	Mandalay	Normal	Female	Home and lifestyle	403	2	403	8463	3/11/2019	15:30:00	Ewallet	806	4761904762	403	44
300-71-4605	C	Naypyitaw	Member	Male	Electronic accessories	8604	5	2151	45171	2/25/2019	11:24:00	Ewallet	4302	4761904762	2151	48
371-85-5789	B	Mandalay	Normal	Male	Health and beauty	8798	3	13197	277137	3/5/2019	10:40:00	Ewallet	26394	4761904762	13197	51
273-16-6619	B	Mandalay	Normal	Male	Home and lifestyle	332	2	332	6972	3/15/2019	12:20:00	Credit card	664	4761904762	332	44
636-48-8204	A	Yangon	Normal	Male	Electronic accessories	3456	5	864	18144	2/17/2019	11:15:00	Ewallet	1728	4761904762	864	99
549-59-1358	A	Yangon	Member	Male	Sports and travel	8863	3	132945	2791845	3/2/2019	17:36:00	Ewallet	26589	4761904762	132945	6
227-03-5010	A	Yangon	Member	Female	Home and lifestyle	5259	8	21036	441756	3/22/2019	19:20:00	Credit card	42072	4761904762	21036	85

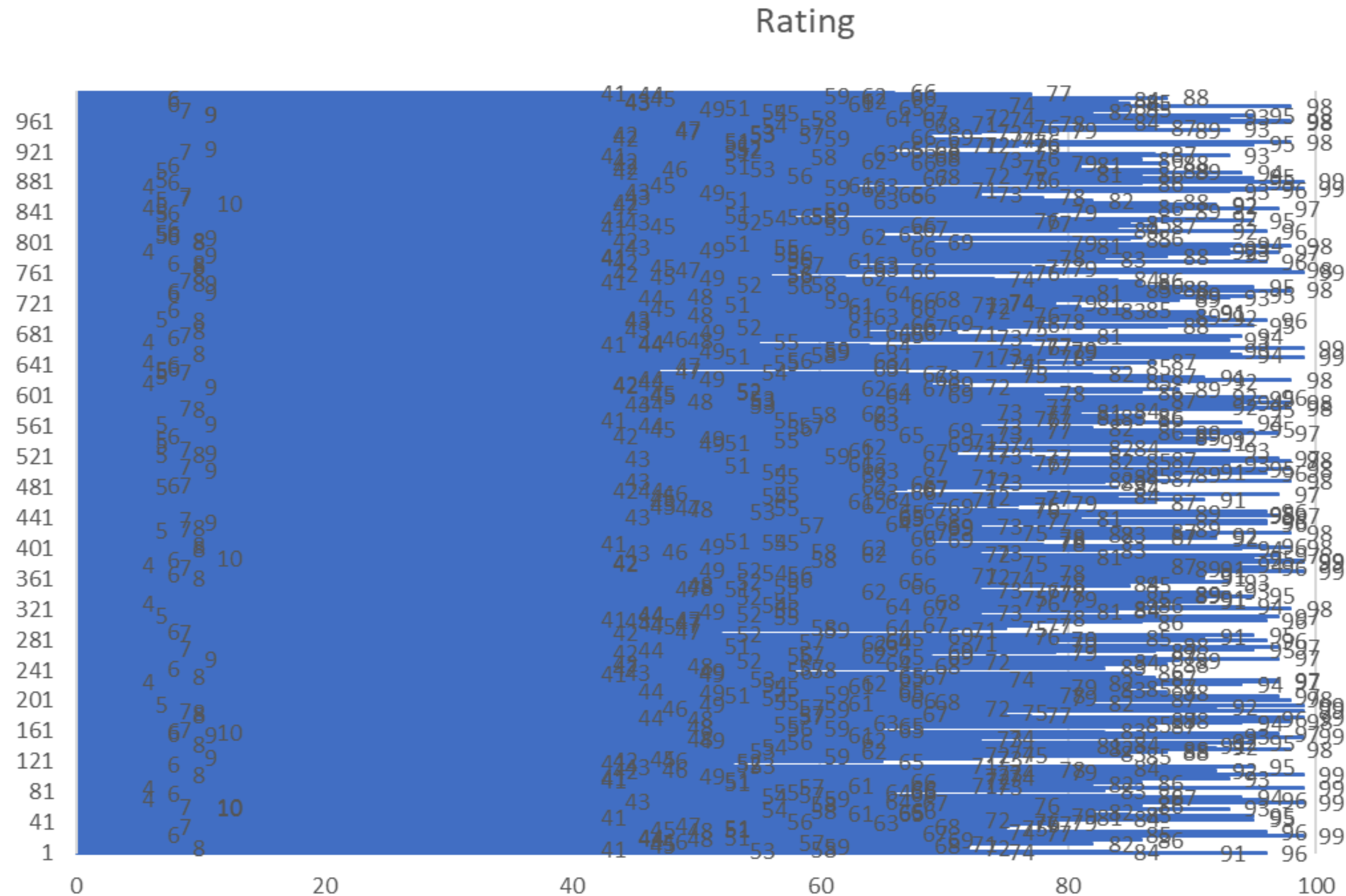
Analisis Deskriptif

	Rata-rata	Median	Modus	Simpangan Baku
Harga Unit	5043,332	5064	8377	2898,29376
Kuantitas	5,51	5	10	2,9219685
Total Penjualan	877066,4	82908	82908	1607687
Rating	62,545	66	6	26,1364

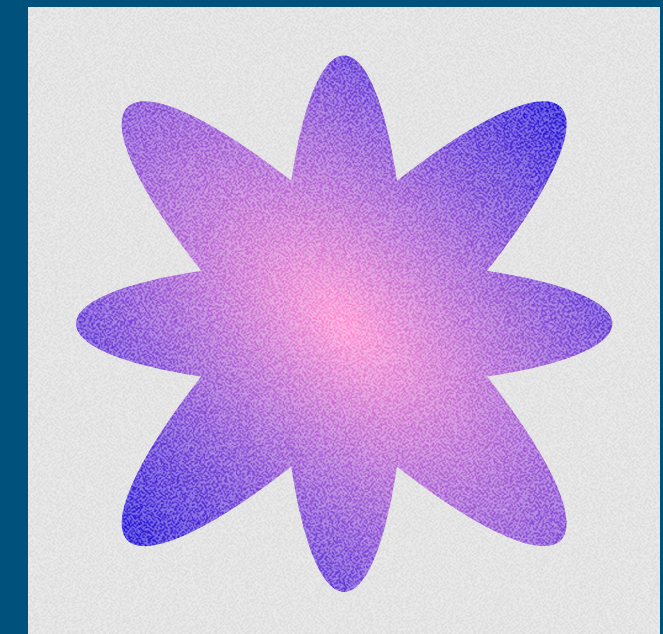
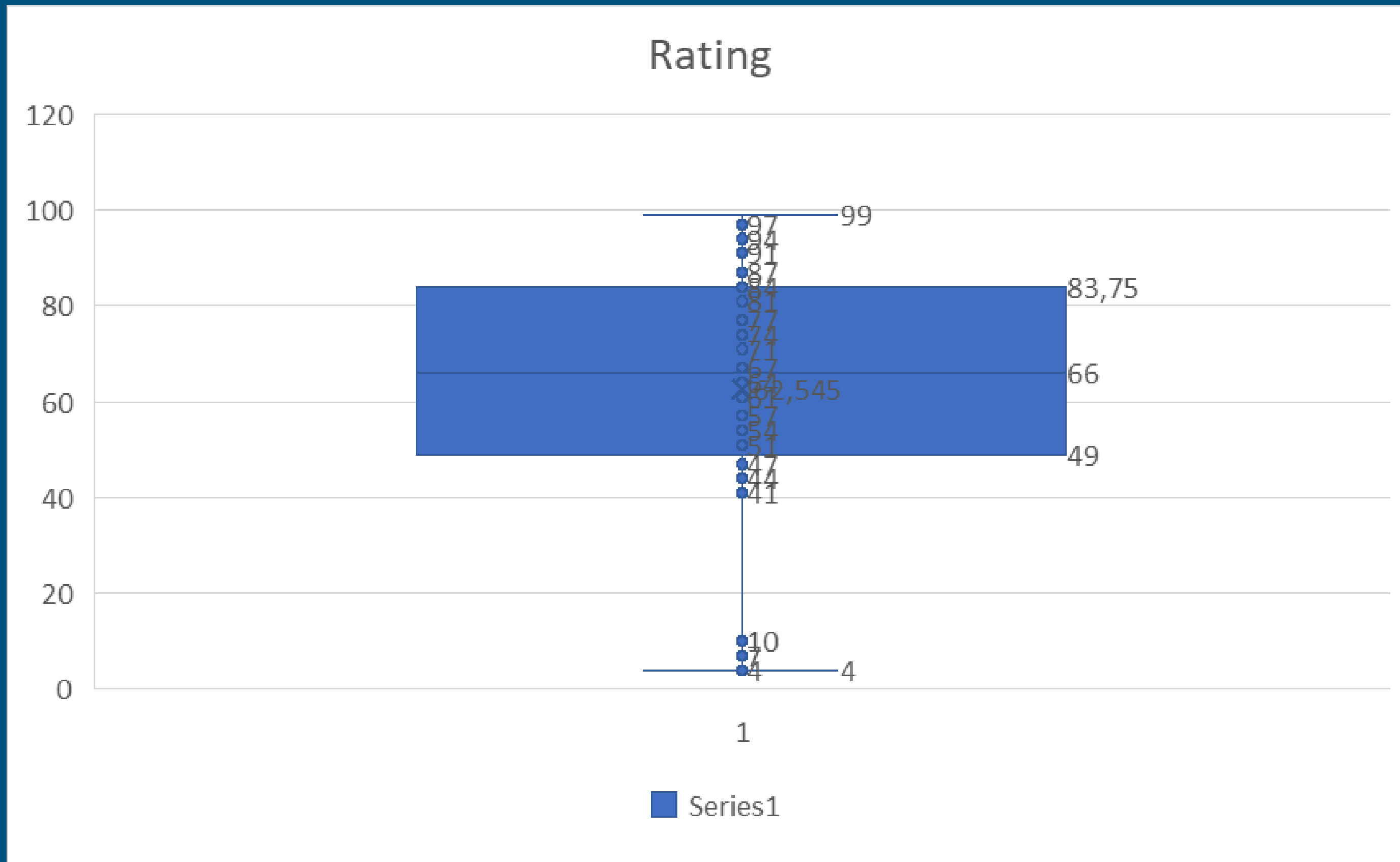
Visualisasi Data



Visualisasi Data



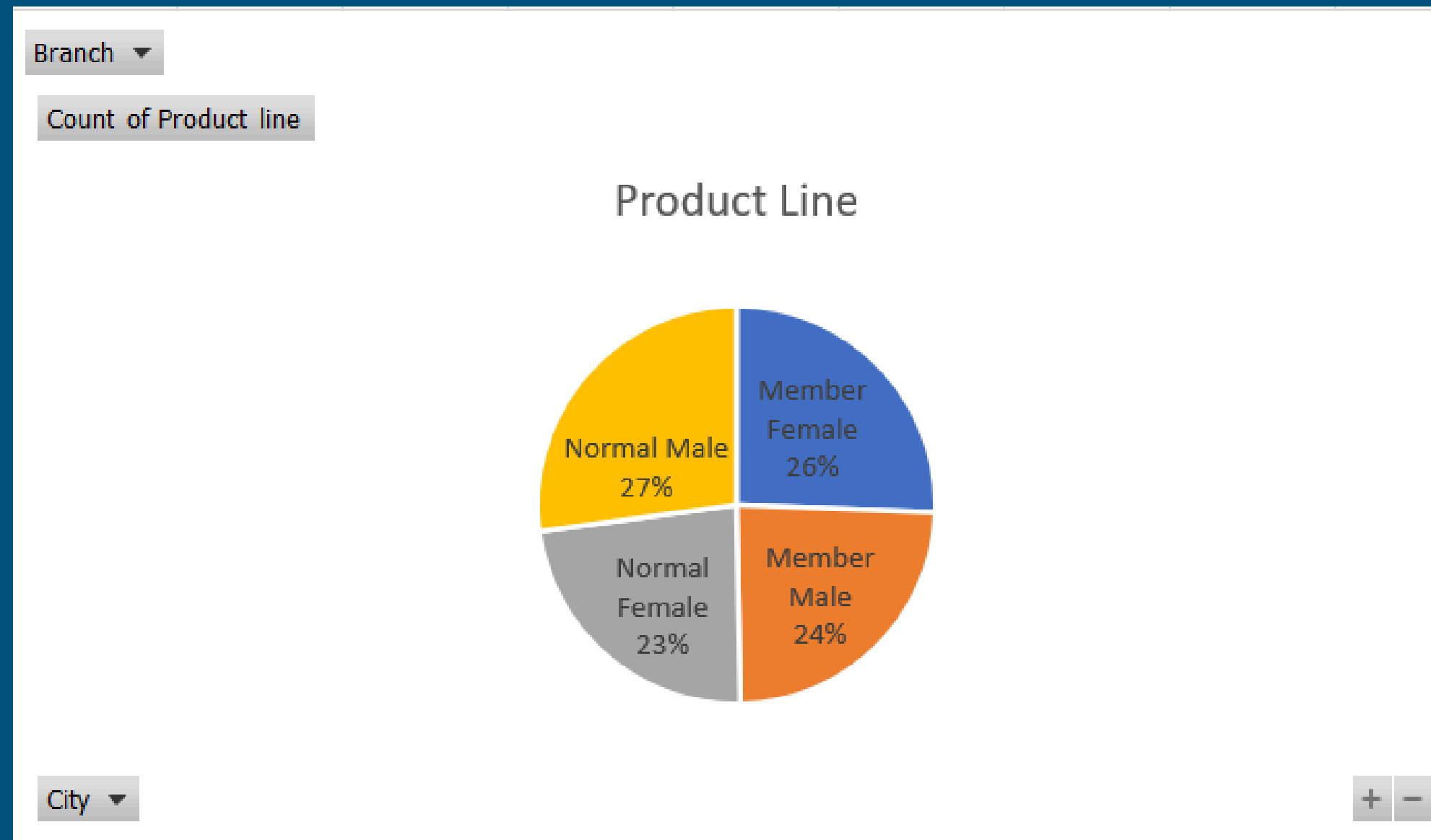
Visualisasi Data



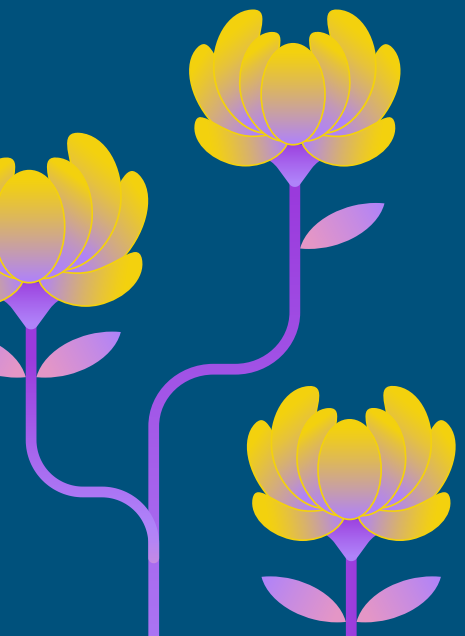
Analisis Kategorikal

Count of Product line		Column Labels			
Row Labels		Mandalay	Naypyitaw	Yangon	Grand Total
Member		165	169	167	501
Female		85	96	80	261
Male		80	73	87	240
Normal		167	159	173	499
Female		77	82	81	240
Male		90	77	92	259
Grand Total		332	328	340	1000

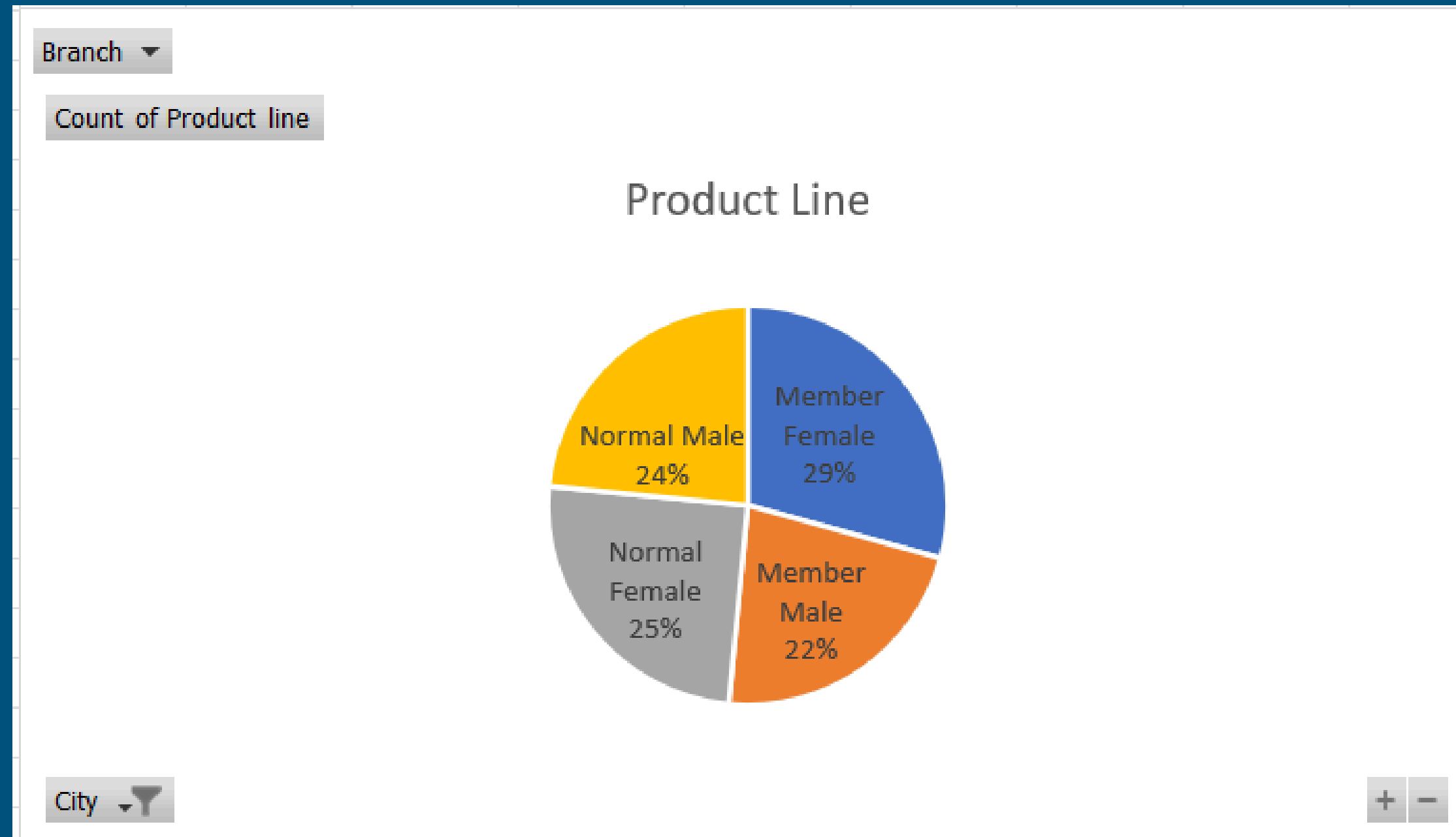
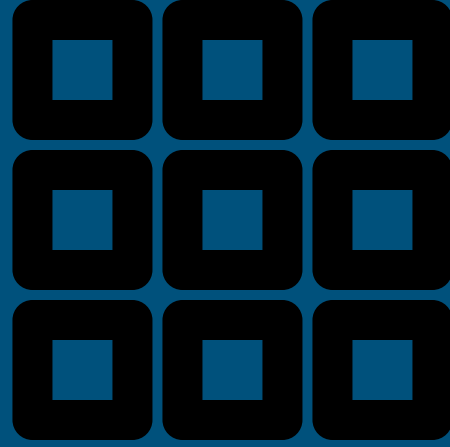
Analisis Kategorikal



Mandalay

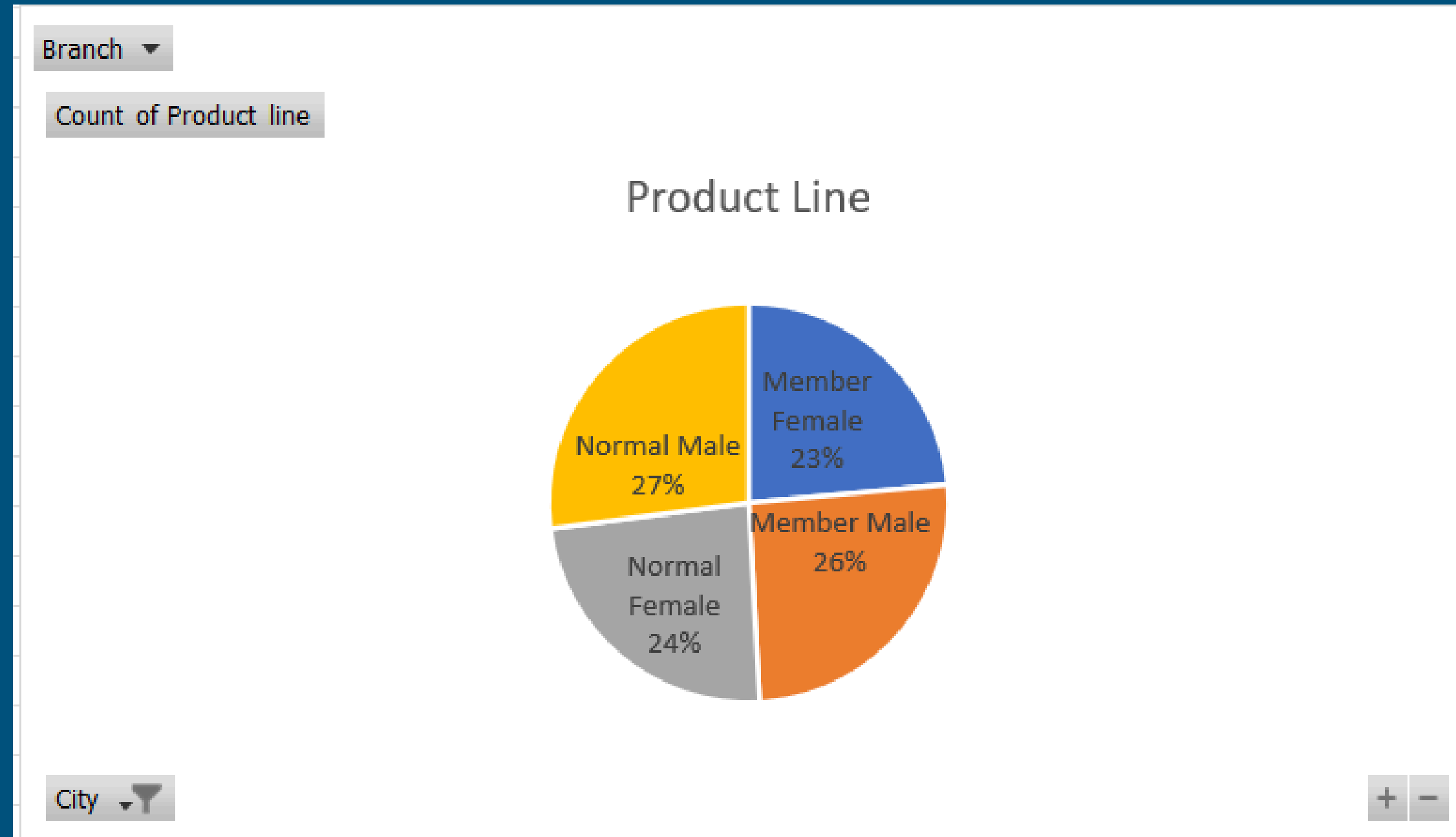
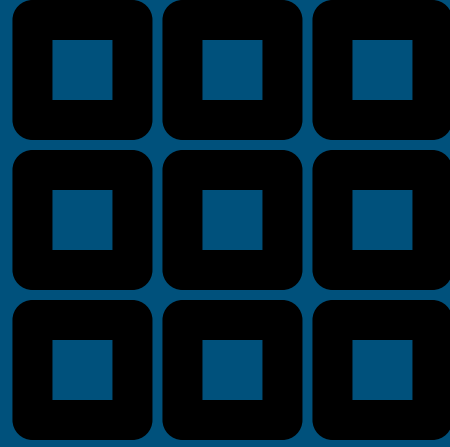


Analisis Kategorikal



Naypyitaw

Analisis Kategorikal



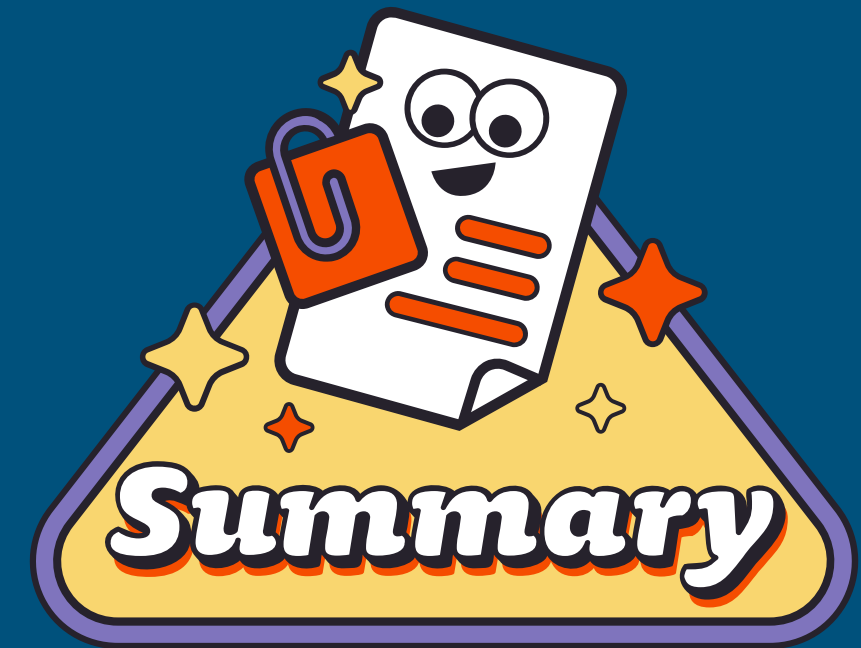
Yangon

Identifikasi Outlier



Identifikasi Outlier	Hasil
Minimum	4
Q1	49
Q2 (Median)	66
Q3	83
Maximum	99
IQR	34

Kesimpulan



1. Berdasarkan dataset yang aku dapatkan tentang total penjualan, dari ketiga cabang tersebut, Cabang C memiliki penjualan tertinggi dibandingkan Cabang A dan B, walaupun penjualan antara ketiga cabang tersebut merata.
2. Berdasarkan dataset yang aku dapatkan, kategori produk yang tertinggi dijual adalah kategori "Food and Beverages" lalu diikuti oleh "Fashion Accessories" dan "Electronic Accessories".
3. Berdasarkan waktu transaksi antara ketiga cabang tersebut, puncak transaksi A terjadi di pukul 18:00-19:00, sedangkan di B itu di pukul 17:00-18:00, dan di C itu di pukul 19:00-20:00
4. Berdasarkan boxplot dari variable "Rating" dan juga mengidentifikasi nilai outlier, kita lihat bahwa dari 1001 data, 493 data merupakan data outlier. Dampak dari data outlier yang muncul itu menimbulkan efek rata-rata data Rating yang seharusnya terletak di dalam area boxplot.

Sumber Dataset

Dataset: <https://www.kaggle.com/datasets/aungpyaeap/supermarket-sales>



THANKYOU

Terima Kasih

