Customer Ratings Analysis + Insights

Cities

Yangon Mandalay Naypyitaw

Payment Methods Cash Credit Card E-wallet

Product Lines Health + Beauty Electronic Accessories Home + Lifestyle Sports + Travel Electronic Accessories Fashion Accessories

Data available at https://www.kaggle.com/aungpyaeap/supermarket-sales

Meehad Jawwad

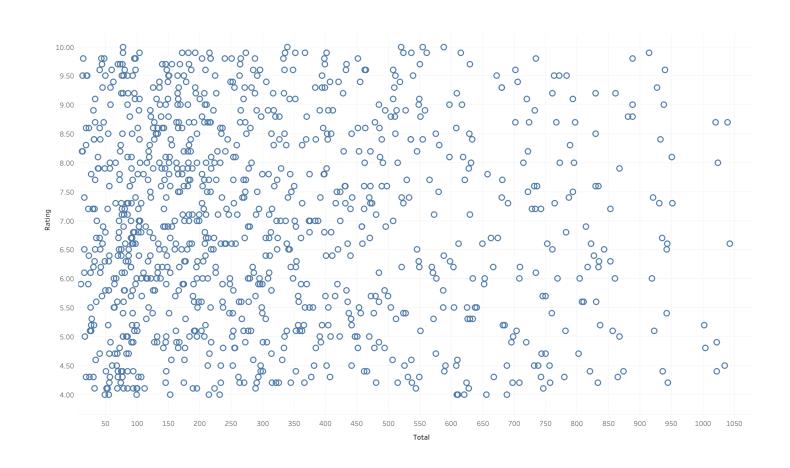
Exlporatory Data Analysis

Distribution of Ratings

lowest = 4.0highest = 10.0

25% = 5.575% = 8.5

average = 7.0



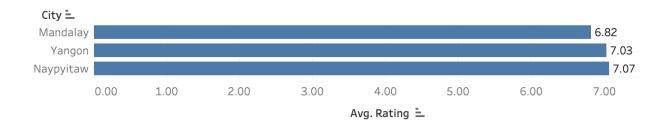
No correlation between Total Revenue and Rating. The experience of the customer is not affected by the amount of money they spend.

The service provided by the employee is not affected by the amount of money being spent by the customer.

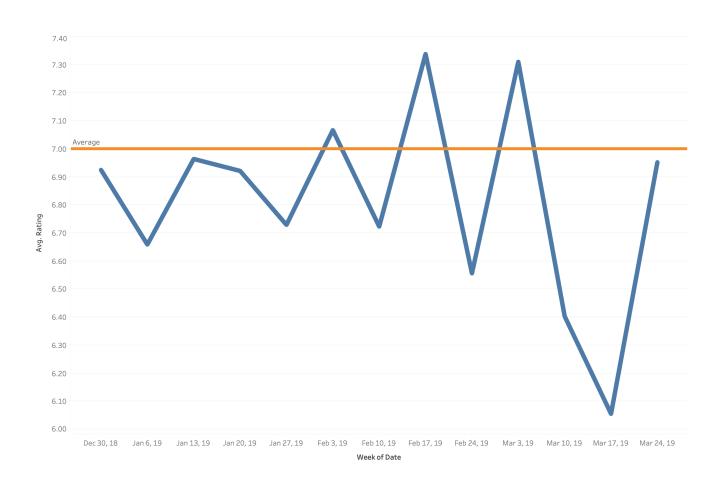
Mandalay Yangon Naypyitaw

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Analysing Cities



Mandalay has the lowest average rating of 6.82, which is 0.18 points below the total average



During the 13-week period, Mandalay's weekly average has been below the total average 10 times.

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Product Lines + Gender

	City			
Product line	Mandalay	Naypyitaw	Yangon	
Electronic accessories	7.12	6.75	6.91	
Fashion accessories	6.72	7.44	6.88	
Food and beverages	6.99	7.08	7.25	
Health and beauty	7.10	7.00	6.90	
Home and lifestyle	6.52	7.06	6.93	
Sports and travel	6.51	7.03	7.26	

Lowest rating

Home + Lifestyle, Mandalay

Second lowest rating

Sports + Travel, Mandalay

	City			
Gender	Mandalay	Naypyitaw	Yangon	
Female	6.88	7.16	6.84	
Male	6.76	6.97	7.20	

Lowest rating

Male customers, Mandalay

Second lowest rating

Female customers, Yangon

Digging Deeper

		Product line					
City	Payment	Electronic accessories	Fashion accessories	Food and beverages	Health and beauty	Home and lifestyle	Sports and travel
Mandalay	Cash	7.02	7.03	8.03	7.51	6.88	6.37
	Credit card	7.27	6.58	6.89	6.98	6.47	6.39
	Ewallet	7.12	6.53	6.66	6.85	6.34	6.83
Naypyitaw	Cash	6.99	7.06	7.03	7.22	6.76	6.62
	Credit card	7.29	7.56	7.37	7.14	6.80	7.49
	Ewallet	5.98	7.70	6.95	6.66	7.56	6.76
Yangon	Cash	6.72	6.84	7.57	6.96	6.04	7.69
	Credit card	7.08	6.42	7.48	6.37	7.08	7.27
	Ewallet	6.91	7.27	6.71	7.30	7.67	6.88

Lowest rating

Customers paying by **e-wallet** for **Electronic Accessories** at **Naypyitaw**.

Second lowest rating

Customers paying by **cash** for **Home + Lifestyle** at **Yangon**.

- The Home + Lifestyle and Sports +
 Travel departments at Mandalay have
 below average ratings across all
 payment methods.
- The Electronic Accessories department at Mandalay and Fashion Accessories department at Naypyitaw have above average ratings across all payment methods.

Cities + Gender + Product Lines

			City	
Gender	Product line	Mandalay	Naypyitaw	Yangon
Female	Electronic accessories	7.10	6.95	6.31
	Fashion accessories	6.68	7.61	7.03
	Food and beverages	7.32	7.23	7.00
	Health and beauty	7.29	7.16	7.00
	Home and lifestyle	6.60	7.07	6.63
	Sports and travel	6.37	6.79	7.16
Male	Electronic accessories	7.13	6.54	7.44
	Fashion accessories	6.77	7.24	6.70
	Food and beverages	6.54	6.87	7.42
	Health and beauty	6.98	6.87	6.82
	Home and lifestyle	6.45	7.05	7.22
	Sports and travel	6.64	7.47	7.35

- Female customers buying Electronic Accessories at Yangon have the lowest rating, 0.72 points below the city average.
- + Both male and female customers buying **Electronic Accessories at Naypyitaw** have below average ratings.
- Male customers across all product lines (with the exception of Electronic Accessories) at Mandalay have below average ratings.
- Male customers buying Food + Beverages have below average ratings across all cities.
- Female customers buying Food + Beverages and Health + Beauty have above average ratings across all cities.

Comparative Insights

			City		
Gender	Payment	Product line	Mandalay	Naypyitaw	Yangon
Female	Cash	Electronic accessories	7.11	6.85	6.61
		Fashion accessories	7.15	7.85	6.83
		Food and beverages	9.32	7.18	7.58
		Health and beauty	7.87	7.83	6.96
		Home and lifestyle	7.40	7.10	6.05
		Sports and travel	6.43	6.81	8.15
	Credit card	Electronic accessories	6.80	7.77	6.03
		Fashion accessories	6.04	7.76	6.20
		Food and beverages	7.27	7.54	6.60
		Health and beauty	7.03	7.99	6.57
		Home and lifestyle	6.34	6.87	6.73
		Sports and travel	6.22	7.49	6.56
	Ewallet	Electronic accessories	7.44	6.30	6.43
		Fashion accessories	6.83	7.34	7.85
		Food and beverages	6.19	7.04	6.37
		Health and beauty	6.93	6.17	7.50
		Home and lifestyle	6.51	7.30	7.06
		Sports and travel	6.43	5.70	6.39
Male	Cash	Electronic accessories	6.92	7.18	6.81
		Fashion accessories	6.88	6.61	6.86
		Food and beverages	5.87	6.84	7.56
		Health and beauty	7.25	6.81	6.96
		Home and lifestyle	6.64	6.16	6.03
		Sports and travel	6.31	6.18	6.99
	Credit card	Electronic accessories	7.80	6.58	8.48
		Fashion accessories	7.33	7.17	6.68
		Food and beverages	6.21	7.02	7.75
		Health and beauty	6.95	6.65	6.23
		Home and lifestyle	6.65	6.70	7.49
		Sports and travel	6.57	7.50	7.82
	Ewallet	Electronic accessories	6.87	5.83	7.21
		Fashion accessories	6.26	8.28	6.64
		Food and beverages	7.09	6.84	6.90
		Health and beauty	6.80	7.28	7.18
		Home and lifestyle	6.22	7.77	8.27
		Sports and travel	7.23	8.46	7.25

Comparative Insights

Cash transactions for Food + Beverages at Mandalay Male ratings = 5.87

Female ratings = 5.87

Difference = 3.45

E-wallet transactions for Sports + Travel at Naypyitaw

Female ratings = 5.70 Male ratings = 8.46

Difference = 2.76

Credit card transactions for Electronic Accessories at Yangon Female ratings = 6.03

Male ratings = 8.48

Difference = 2.45

Cash transactions for Home + Lifestyle at Naypyitaw

Male ratings = 6.64 Female ratings = 7.40

Difference = 1.40

Comparative Insights

Cash transactions at Mandalay for Female Customers Sports +

Sports + Travel is the only department with below average ratings.

E-wallet transactions at Mandalay for Female Customers Lectronic Acce

 Electronic Accessories is the only department with above average ratings.

Cash transactions at Mandalay for Male Customers Health +

Health + Beauty is the only department with above average ratings.

Credit card transactions at Naypyitaw for Female Customers Home + Lifesty

Home + Lifestyle is the only department with below average ratings.

Cash transactions at Naypyitaw for Male Customers • Electronic

 Electronic Accessories is the only department with above average ratings.

Cash transactions at Yangon for Male Customers

Food + Beverages is the only department with above average ratings.