

DA Assignment - 3

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The growth of supermarkets in most populated cities is increasing and market competitions are also high. The dataset is one of the historical sales of supermarket company which has recorded in 3 different branches for 3 months data. Predictive data analytics methods are easy to apply to this dataset.

Attribute information

Invoice id: Computer-generated sales slip invoice identification number

Branch: Branch of supercenter (3 branches are available identified by A, B and C).

City: Location of supercenters

Customer type: Type of customers, recorded by Members for customers using member cards and Normal for those without member cards.

Gender: Gender type of customer

Product line: General item categorization groups - Electronic accessories, Fashion accessories, Food and beverages, Health and beauty, Home and lifestyle, Sports and travel

Unit price: The price of each product in \$

Quantity: Number of products purchased by the customer

Tax: 5% tax fee for customers buying

Total: Total price including tax

Date: Date of purchase (Record available from January 2019 to March 2019)

Time: Purchase time (10 am to 9 pm)

Payment: Payment used by the customer for the purchase (3 methods are available – Cash, Credit card and Ewallet)

COGS: Cost of goods sold

Gross margin percentage: Gross margin percentage

Gross income: Gross income

Rating: Customer stratification rating on their overall shopping experience (On a scale of 1 to 10)

Dataset Link: [Dataset](#)

Challenge:

Upload the dataset to Mysql and integrate with Tableau , delete the unnecessary columns,, explore and visualize the dataset using Tableau

A Invoice ID	A Branch	A City	A Customer ...	A Gender	A Product line	# Unit price	# Quantity	A Invoice ID	A Branch	A City	A Customer ...	A Gender	A Product line	# Unit price	# Quantity
758-67-8428	A	Yangon	Member	Female	Health and beauty	74.69	7	829-34-3918	A	Yangon	Normal	Female	Health and beauty	71.38	18
226-31-3881	C	Naypyitaw	Normal	Female	Electronic accessories	15.28	5	299-46-1885	B	Mandalay	Member	Female	Sports and travel	93.72	6
631-41-3198	A	Yangon	Normal	Male	Home and lifestyle	46.33	7	656-95-9349	A	Yangon	Normal	Female	Health and beauty	68.93	7
123-19-1176	A	Yangon	Member	Male	Health and beauty	58.22	8	765-26-6951	A	Yangon	Normal	Male	Sports and travel	72.61	6
373-73-7918	A	Yangon	Normal	Male	Sports and travel	86.31	7	329-62-1586	A	Yangon	Normal	Male	Food and beverages	54.67	3
659-14-3826	C	Naypyitaw	Normal	Male	Electronic accessories	85.39	7	319-58-3348	B	Mandalay	Normal	Female	Home and lifestyle	40.3	2
355-53-5943	A	Yangon	Member	Female	Electronic accessories	68.84	6	388-71-4685	C	Naypyitaw	Member	Male	Electronic accessories	86.84	5
315-22-5665	C	Naypyitaw	Normal	Female	Home and lifestyle	73.56	10	371-85-5789	B	Mandalay	Normal	Male	Health and beauty	87.98	3
665-32-9167	A	Yangon	Member	Female	Health and beauty	36.26	2	273-16-6619	B	Mandalay	Normal	Male	Home and lifestyle	33.2	2
692-92-5882	B	Mandalay	Member	Female	Food and beverages	54.84	3	636-48-8264	A	Yangon	Normal	Male	Electronic accessories	34.56	5
351-62-8822	B	Mandalay	Member	Female	Fashion accessories	14.48	4	549-59-1358	A	Yangon	Member	Male	Sports and travel	88.63	3
529-56-3974	B	Mandalay	Member	Male	Electronic accessories	25.51	4	227-83-5010	A	Yangon	Member	Female	Home and lifestyle	52.59	8
365-64-8515	A	Yangon	Normal	Female	Electronic accessories	46.95	5	649-29-5775	B	Mandalay	Normal	Male	Fashion accessories	33.52	1
252-56-2699	A	Yangon	Normal	Male	Food and beverages	43.19	10	189-17-4241	A	Yangon	Normal	Female	Fashion accessories	87.67	2

A Invoice ID	A Branch	A City	A Customer ...	A Gender	A Product line	# Unit price	# Quantity	A Invoice ID	A Branch	A City	A Customer ...	A Gender	A Product line	# Unit price	# Quantity
145-94-9861	B	Mandalay	Normal	Female	Food and beverages	88.36	5	354-25-5821	B	Mandalay	Member	Female	Sports and travel	69.12	6
848-62-7243	A	Yangon	Normal	Male	Health and beauty	24.89	9	228-96-1411	C	Naypyitaw	Member	Female	Food and beverages	98.7	8
871-79-8483	B	Mandalay	Normal	Male	Fashion accessories	94.13	5	617-15-4289	C	Naypyitaw	Member	Male	Health and beauty	15.37	2
149-71-6266	B	Mandalay	Member	Male	Sports and travel	78.87	9	132-32-9879	B	Mandalay	Member	Female	Electronic accessories	93.96	4
648-49-2876	B	Mandalay	Normal	Male	Sports and travel	83.78	8	370-41-7321	B	Mandalay	Member	Male	Health and beauty	56.69	9
595-11-5468	A	Yangon	Normal	Male	Health and beauty	96.58	2	727-46-3608	B	Mandalay	Member	Female	Food and beverages	28.01	9
183-56-6882	C	Naypyitaw	Member	Female	Food and beverages	99.42	4	669-54-1719	B	Mandalay	Member	Male	Electronic accessories	18.93	6
232-16-2483	C	Naypyitaw	Member	Female	Sports and travel	68.12	1	574-22-5561	C	Naypyitaw	Member	Female	Fashion accessories	82.63	10
129-29-8530	A	Yangon	Member	Male	Sports and travel	62.62	5	326-78-5178	C	Naypyitaw	Member	Male	Food and beverages	91.4	7
272-65-1886	A	Yangon	Normal	Female	Electronic accessories	68.88	9	162-48-8011	A	Yangon	Member	Female	Food and beverages	44.59	5
333-73-7981	C	Naypyitaw	Normal	Female	Health and beauty	54.92	8	616-24-2851	B	Mandalay	Member	Female	Fashion accessories	17.87	4
777-82-7220	B	Mandalay	Member	Male	Home and lifestyle	38.12	8	776-71-5554	C	Naypyitaw	Member	Male	Fashion accessories	15.43	1
289-35-5823	B	Mandalay	Member	Female	Home and lifestyle	86.72	1	242-55-6721	B	Mandalay	Normal	Male	Home and lifestyle	16.16	2
554-53-8708	C	Naypyitaw	Member	Male	Home and lifestyle	56.11	2	399-46-5918	C	Naypyitaw	Normal	Female	Electronic accessories	85.98	8

A Invoice ID	A Branch	A City	A Customer ...	A Gender	A Product line	# Unit price	# Quantity	A Invoice ID	A Branch	A City	A Customer ...	A Gender	A Product line	# Unit price	# Quantity
186-35-6779	A	Yangon	Member	Male	Home and lifestyle	44.34	2	393-65-2792	C	Naypyitaw	Normal	Male	Food and beverages	89.48	18
635-49-6220	A	Yangon	Normal	Male	Health and beauty	89.6	8	796-12-2025	C	Naypyitaw	Normal	Male	Fashion accessories	62.12	18
817-48-8732	A	Yangon	Member	Female	Home and lifestyle	72.35	18	519-95-6347	B	Mandalay	Member	Female	Food and beverages	48.52	3
120-86-4233	C	Naypyitaw	Normal	Male	Electronic accessories	38.61	6	841-35-6630	C	Naypyitaw	Normal	Female	Electronic accessories	75.91	6
285-68-5883	C	Naypyitaw	Member	Female	Sports and travel	24.74	3	287-21-9891	A	Yangon	Normal	Male	Home and lifestyle	74.67	9
883-83-5899	C	Naypyitaw	Normal	Male	Home and lifestyle	55.73	6	732-94-0499	C	Naypyitaw	Normal	Female	Electronic accessories	41.65	18
347-34-2234	B	Mandalay	Member	Female	Sports and travel	55.87	9	263-10-3913	C	Naypyitaw	Member	Male	Fashion accessories	49.04	9
199-75-8169	A	Yangon	Member	Male	Sports and travel	15.81	18	381-20-6914	A	Yangon	Member	Female	Fashion accessories	26.01	9
853-23-2453	B	Mandalay	Member	Male	Health and beauty	75.74	4	829-49-1914	C	Naypyitaw	Member	Female	Food and beverages	78.31	18
877-22-3388	A	Yangon	Member	Male	Health and beauty	15.87	18	756-01-7597	C	Naypyitaw	Normal	Female	Health and beauty	26.38	5
838-78-4295	C	Naypyitaw	Normal	Female	Health and beauty	33.47	2	870-72-4431	C	Naypyitaw	Normal	Female	Health and beauty	99.19	6
189-28-2512	B	Mandalay	Member	Female	Fashion accessories	97.61	6	847-38-7188	B	Mandalay	Normal	Female	Food and beverages	96.68	3
232-11-3825	A	Yangon	Normal	Male	Sports and travel	78.77	18	488-63-2856	C	Naypyitaw	Normal	Male	Food and beverages	19.25	8
382-03-4532	A	Yangon	Member	Female	Health and beauty	18.33	1	787-56-0757	C	Naypyitaw	Member	Female	Food and beverages	80.36	4

A Invoice ID

Computer generated sales slip invoice identification number

1000

unique values

Valid	1000	100%
Mismatched	0	0%
Missing	0	0%
Unique	1000	
Most Common	750-67-8428	0%

A Branch

Branch of supercenter (3 branches are available identified by A, B and C).

A

34%

Valid	1000	100%
Mismatched	0	0%
Missing	0	0%

B

33%

Valid	1000	100%
Mismatched	0	0%
Missing	0	0%

Other (328)

33%

Unique	3	
Most Common	A	34%

A City

Location of supercenters

Yangon

34%

Valid	1000	100%
Mismatched	0	0%
Missing	0	0%

Mandalay

33%

Valid	1000	100%
Mismatched	0	0%
Missing	0	0%

Other (328)

33%

Unique	3	
Most Common	Yangon	34%

A Customer type

Type of customers, recorded by Members for customers using member card and Normal for without member card

Member

50%

Valid	1000	100%
Mismatched	0	0%
Missing	0	0%

Normal

50%

Unique	2	
Most Common	Member	50%

A Gender

Gender type of customer

Female

50%

Valid	1000	100%
Mismatched	0	0%
Missing	0	0%

Male

50%

Unique	2	
Most Common	Female	50%

A Product line

General item categorization groups

Fashion accessories

18%

Valid	1000	100%
Mismatched	0	0%
Missing	0	0%

Food and beverages

17%

Valid	1000	100%
Mismatched	0	0%
Missing	0	0%

Other (648)

65%

Unique	6	
Most Common	Fashion acc...	18%

Unit price

Price of each product in \$



Valid	1000	100%
Mismatched	0	0%
Missing	0	0%
Mean	55.7	
Std. Deviation	26.5	
Quantiles	10.1 Min	
	32.9 25%	
	55.4 50%	
	78 75%	
	100 Max	

Quantity

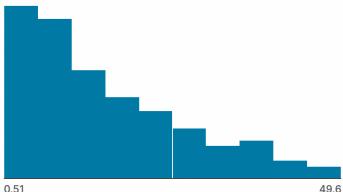
Number of products purchased by customer



Valid	1000	100%
Mismatched	0	0%
Missing	0	0%
Mean	5.51	
Std. Deviation	2.92	
Quantiles	1 Min	
	3 25%	
	5 50%	
	8 75%	
	10 Max	

Tax 5%

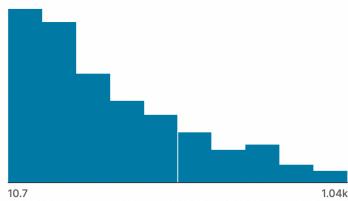
5% tax fee for customer buying



Valid	1000	100%
Mismatched	0	0%
Missing	0	0%
Mean	15.4	
Std. Deviation	11.7	
Quantiles	0.51 Min	
	5.96 25%	
	12.1 50%	
	22.5 75%	
	49.6 Max	

Total

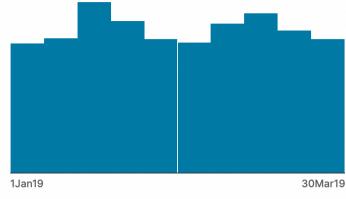
Total price including tax



Valid	1000	100%
Mismatched	0	0%
Missing	0	0%
Mean	323	
Std. Deviation	246	
Quantiles	10.7	Min
	125	25%
	254	50%
	472	75%
	1.04k	Max

⌚ Date

Date of purchase



Valid	1000	100%
Mismatched	0	0%
Missing	0	0%
Minimum	1Jan19	
Mean	14Feb19	
Maximum	30Mar19	

⌚ Time

Purchase time



Valid	1000	100%
Mismatched	0	0%
Missing	0	0%
Minimum	24Oct19	
Mean	24Oct19	
Maximum	25Oct19	

⚠ Payment

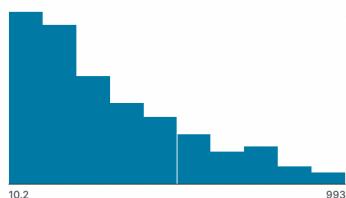
Payment used by customer for purchase

Ewallet	35%
Cash	34%
Other (311)	31%

Ewallet 35%

cogs

Cost of goods sold



Valid	1000	100%
Mismatched	0	0%
Missing	0	0%
Mean	308	
Std. Deviation	234	
Quantiles	10.2	Min
	119	25%
	242	50%
	450	75%
	993	Max

gross margin percentage

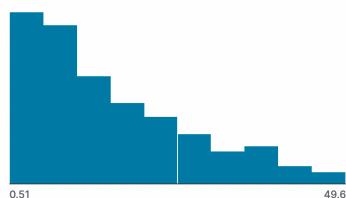
Gross margin percentage



Valid	1000	100%
Mismatched	0	0%
Missing	0	0%
Mean	4.76	
Std. Deviation	0	
Quantiles	4.76	Min
	4.76	25%
	4.76	50%
	4.76	75%
	4.76	Max

gross income

Gross income



Valid	1000	100%
Mismatched	0	0%
Missing	0	0%
Mean	15.4	
Std. Deviation	11.7	
Quantiles	0.51	Min
	5.96	25%
	12.1	50%
	22.5	75%
	49.6	Max

Rating

Customer stratification rating on their overall shopping experience (On a scale of 1 to 10)



Valid	1000	100%
Mismatched	0	0%
Missing	0	0%
Mean	6.97	
Std. Deviation	1.72	
Quantiles	4	Min
	5.5	25%
	7	50%
	8.5	75%
	10	Max