YOGESH'S DATA VISUALIZATION PROJECT

KPI DASHBOARD FOR ATLIQ SERVICES

A Case Study on Mitron bank

Duration: 15-20minutes



PROBLEM STATEMENT / PROJECT SCOPE

 Mitron Bank is a legacy financial institution headquartered in Hyderabad. They want to introduce a new line of credit cards, aiming to broaden its product offerings and reach in the financial market.

KPIs:

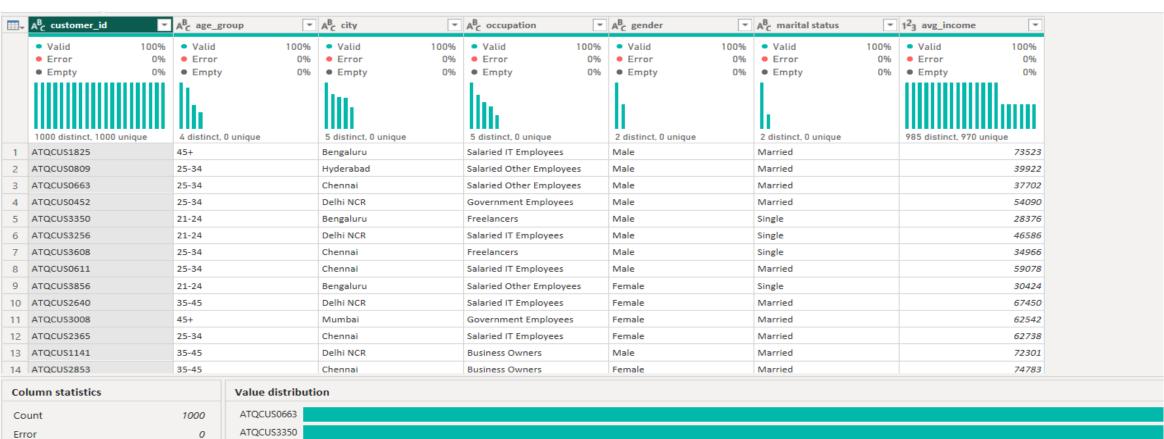
- 1. Income utilisation %
- 2. Spending Insights
- 3. Demographic classification
- 4. Key Customer Segments



- There is Two table provided in which the first table contains dim_customers (4000 rows and 7 columns) and fact_spends (864001 rows and 5 columns).
- Power BI was the tool used for creating the visualization/dashboard
- The data was imported, analysed and transformed as per necessity
- Power query and DAX expressions are used to create different KPIs for the problem statement
- KEY SKILLS
- 1. Power Query
- 2. DAX Expression
- 3. ETL
- 4. Visualization
- 5. Analysis
- 6. Report



DATA CLEANING/TRANSFORMATION



Count Error	1000 0
	0
Founts:	
Empty	0
Distinct	1000
Unique	1000
Empty string	0
Min	ATQCUS
Max	ATQCUS



DATA CLEANING/TRANSFORMATION

-	A ^B _C customer_id	A ^B mon	th 🔻	A ^B _C category	-	A ^B _C payment_type	~	1 ² 3 spend	¥
	 Valid 100% 	Valid	100%	Valid	100%	Valid	100%	Valid	100%
	• Error 0%	Error	0%	• Error	0%	• Error	0%	• Error	0%
	• Empty 0%	Empt	y 0%	Empty	0%	Empty	0%	Empty	0%
	896 distinct, 801 unique	6 distinct	t, 0 unique	9 distinct, 0 unique		4 distinct, 0 unique		679 distinct, 461	unique
1	ATQCUS1371	July		Health & Wellness		Credit Card			1114
2	ATQCUS0368	October		Groceries		Credit Card			1466
3	ATQCUS0595	May		Health & Wellness		Credit Card			387
4	ATQCUS0667	October		Electronics		Credit Card			1137
5	ATQCUS3477	Septemb	er	Bills		UPI			2102
6	ATQCUS1972	October		Health & Wellness		UPI			243
7	ATQCUS2843	June		Entertainment		Credit Card			268
8	ATQCUS2634	August		Apparel		Debit Card			737
9	ATQCUS2165	July		Food		UPI			506
10	ATQCUS0908	Septemb	er	Others		UPI			380
11	ATQCUS1115	May		Food		UPI			361
12	ATQCUS1279	August		Entertainment		Debit Card			443
13	ATQCUS0108	Septemb	er	Groceries		Credit Card			361
14	ATQCUS3883	May		Groceries		Credit Card			56

Column statistics	
Count	1000
Error	0
Empty	0
Distinct	4
Unique	0
Empty string	0
Min	Credit C
Max	UPI



A few KPIs were created for the problem statement:

```
    Income utilisation % = DIVIDE(
        SUM('fact_spends'[spend]),
        SUM('dim_customers'[avg_income]),
        0
    * 100
```

- Created the Average of income KPI to show average income of peoples.
- Them we create our Average of Income spend KPI to show the income spends by peoples.
- Created a age group slicer for better filtering out data for the analysis.
- Created a treemap of Income utilization % by payment mode for better filtering and analysis our data to know the use of credit card.



- Some key KPIs for the solution
- Income utilization %

Income Utilization by Per..

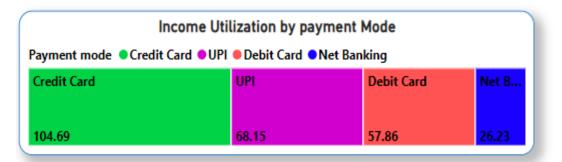
256.93

Average of spends

Average of Income Spend

614

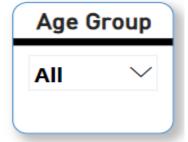
 Income utilization by payment mode



• Average of Income

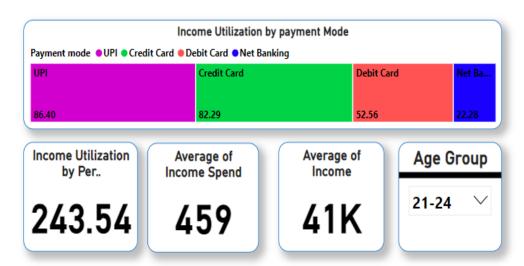
Average of Income
52K

Age Group

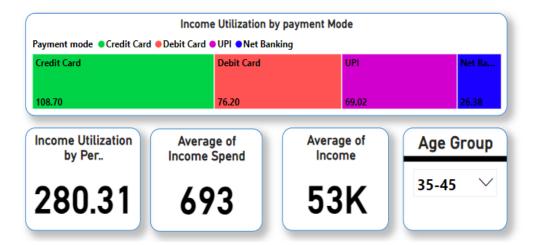




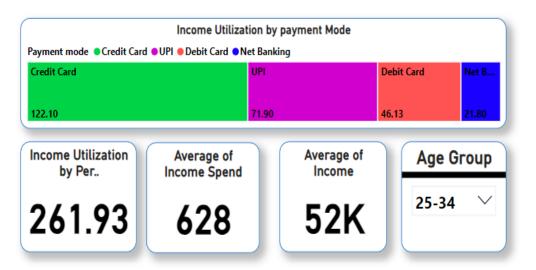
- First lets see by age group which payment mode people is using to pay money
- 21-24



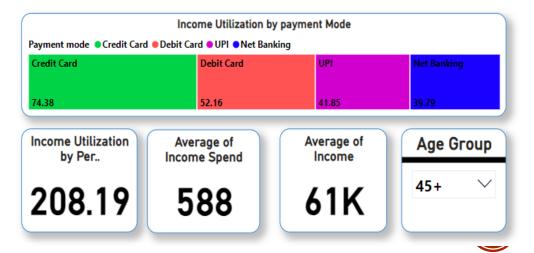
• 35-45(Most income utilization)



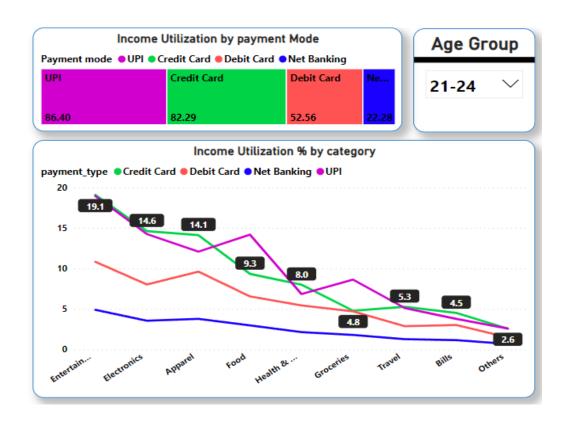
• 25-34

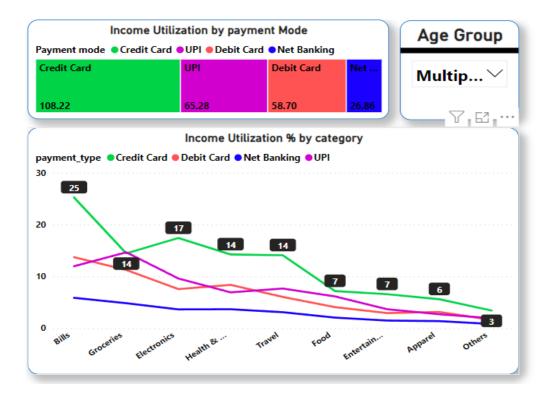


45+(Least income utilization)



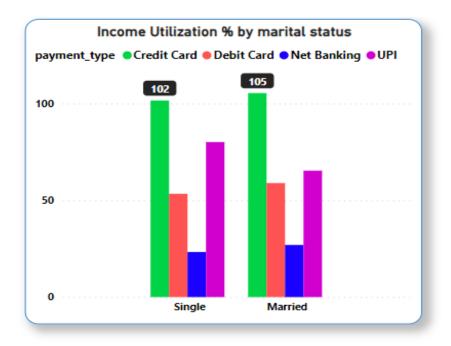
- Now we see income utilization by category ,we see this by two age groups
- 21-24 25-45+



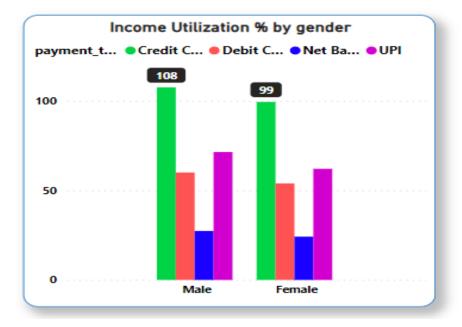




Marital status

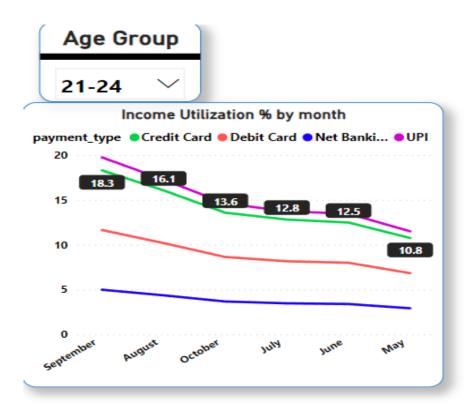


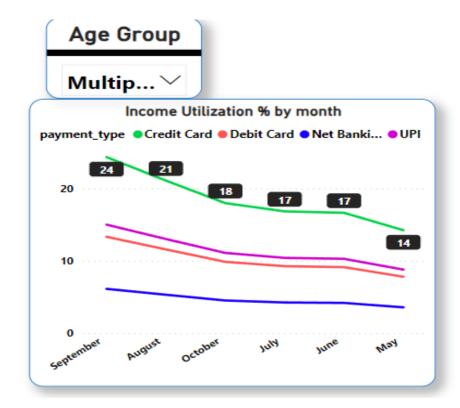
Gender





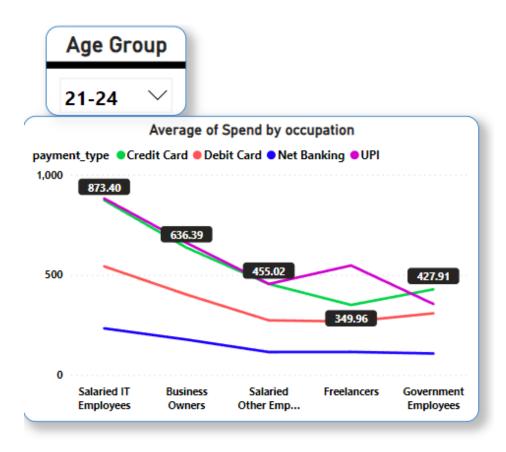
- Income utilization by month filtered by age group
- 21-24

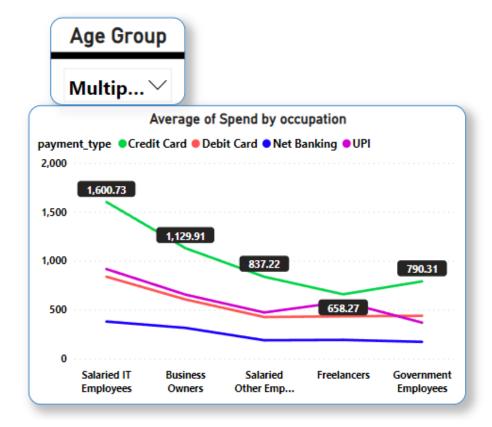






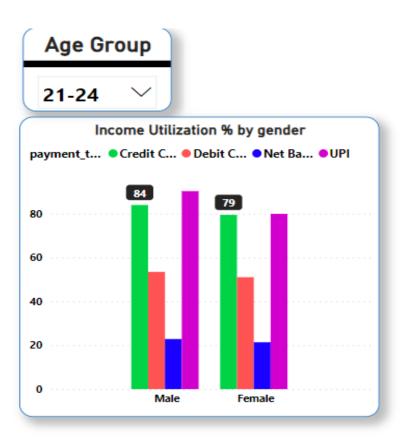
- Occupation filtered by age group
- 21-24

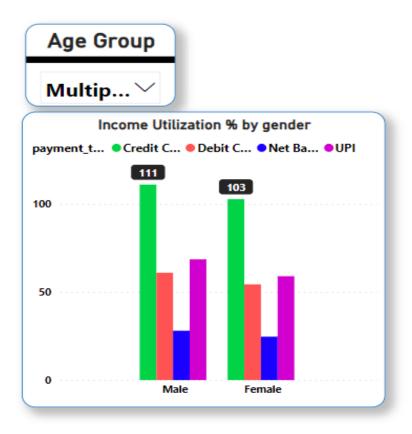






- Gender filtered by age group
- 21-24

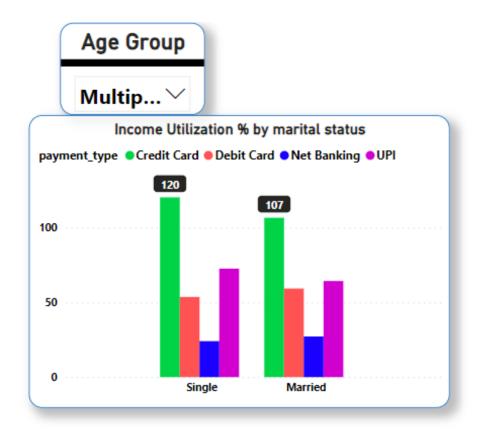






- Gender filtered by age group
- 21-24







FEATURES OF THE DASHBOARD

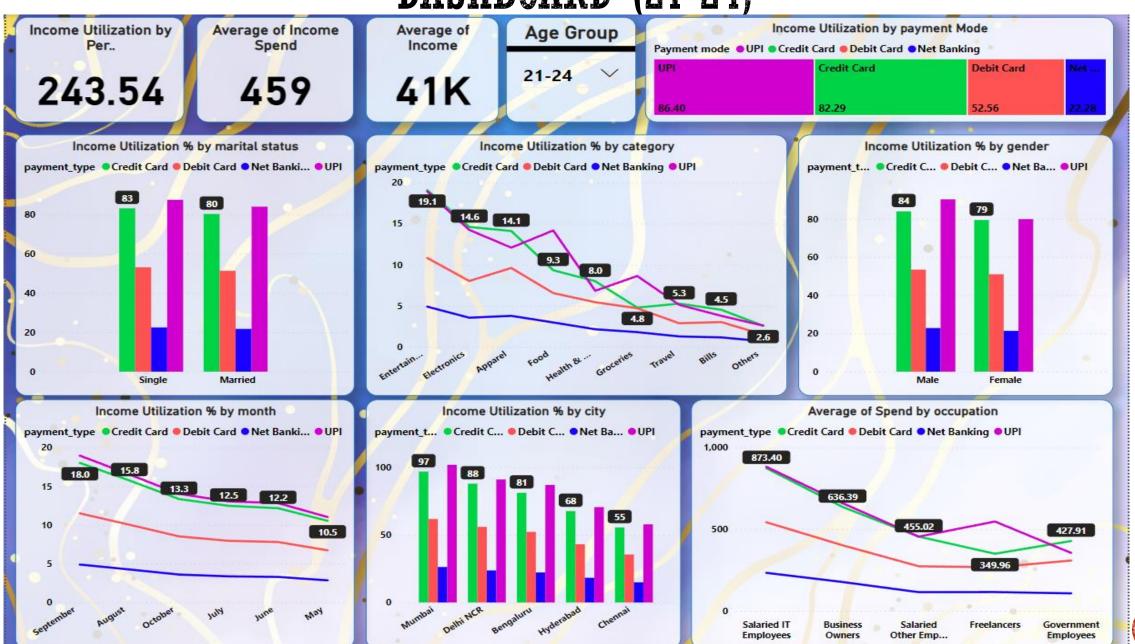
- The following 3 KPIs were provided:
 - Income utilization % = Tells about the total income utilization.
 - Average income spend = Tells us about the Average income spends.
 - Average of income = Shows the average of income earned.
 - There are six visuals provided in the dashboard for analysis
 - There is one tree map provided which tells us about the how much income utilization is done by each payment type.
 - And lastly there is one slicer for age group which we will use to filter out the data given to us it is also a key aspect regarding the problem which we are given.



DASHBOARD



DASHBOARD (21-24)





DASHBOARD(25-45+)





PROBLEM OUTCOME

- As we noticed above that people from age group 21-24 are mostly using UPI mode for payment.
- Mostly credit cards are used by the age group 25-34.
- 25 45 + are using mostly credit cards for almost every things and mostly for bills, but still for
 Groceries they equally use Credit card and UPI.
- Peoples in Mumbai are spending the most in any age group followed by Delhi NCR.
- Single people are preferring UPI Payment mode Followed by Credit card.
- Married people are preferring Credit card Payment mode Followed by UPI.
- Both Female and Male From age group 21-24 are using UPI rest 25 45+ are using credit cards .
- Freelancers of age group 21-24 prefer using credit cards and rest equally using both credit card and UPI.
- IT employees followed by Business owner from age group 25-45+ are using credit card the most.



CONCLUSION

- A dashboard was built for Stakeholders depicting its various KPIs visually
- Relevant filters and interactions was provided in the dashboard
- This dashboard can be used for both high-level and in-depth analysis of KPIs across various dimensions
- This dashboard is filtered into there main divisions first age group all, second 21-24 and third 25-25+.
- Based on the analysis we see that most people are using credit card for bigger payment and older people (as people aging)and mostly young people are using UPI and credit card.
- But younger people are mostly using UPI payment method for Entertainment and Electronics but as they age they tend to spend less on entertainment and electronics and more on bills and groceries using credit cards.
- Overall people are using credit cards more than any other payment mode it just younger people are using
 mostly UPI for smaller payment and at the same time Credit card for a bigger type of payment.



THANK YOU!

