

BLACK FRIDAY PREDICTION PROJECT

Name:- Kundan Devidas Patil

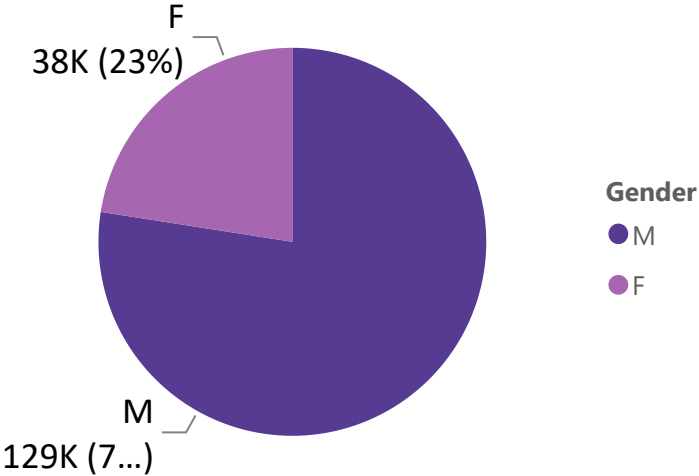
Batch No:- DS0522

Intern Batch:- 33

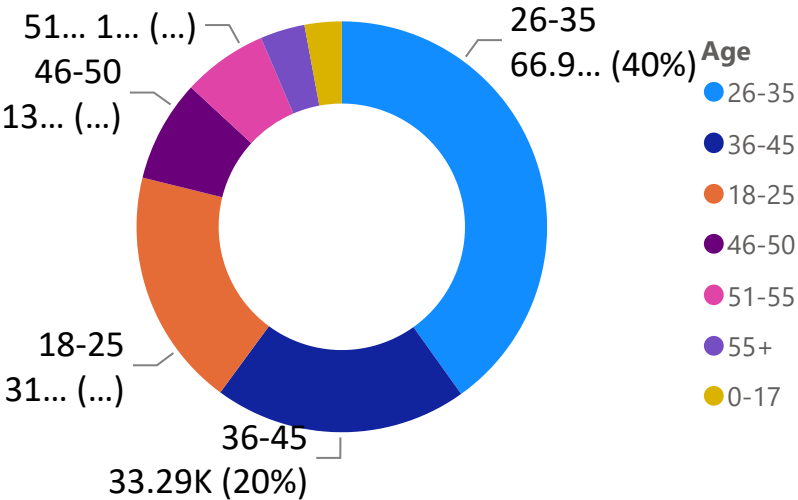
Problem Statement

A retail company “ABC Private Limited” wants to understand the customer purchase behaviour (specifically, purchase amount) against various products of different categories. They have shared purchase summary of various customers for selected high volume products from last month. The data set also contains customer demographics (age, gender, marital status, city_type, stay_in_current_city), product details (product_id and product category) and Total purchase_amount from last month. Now, they want to build a model to predict the purchase amount of customer against various products which will help them to create personalized offer for customers against different products.

Count of Gender



Count of Age



Total User Count

166.82K

Count of User_ID

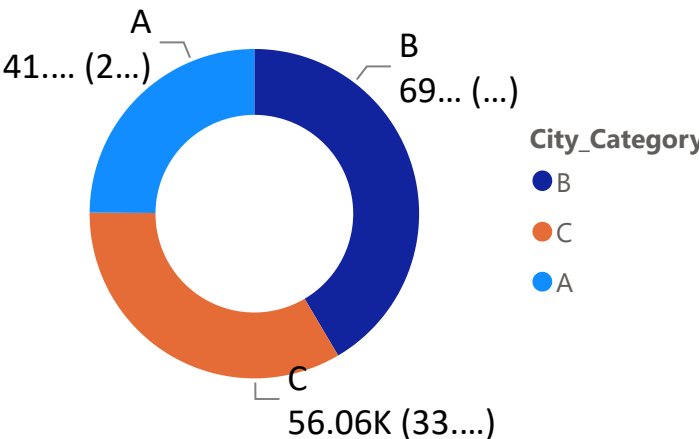
Gender

Gender

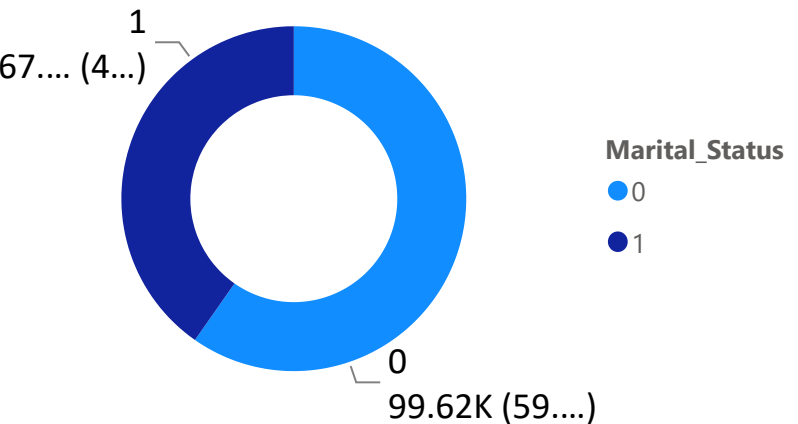
☐ F

☐ M

Total User Count By City



Total User Count by Marital_Status



Age

Age

☐ 0-17

☐ 18-25

☐ 26-35

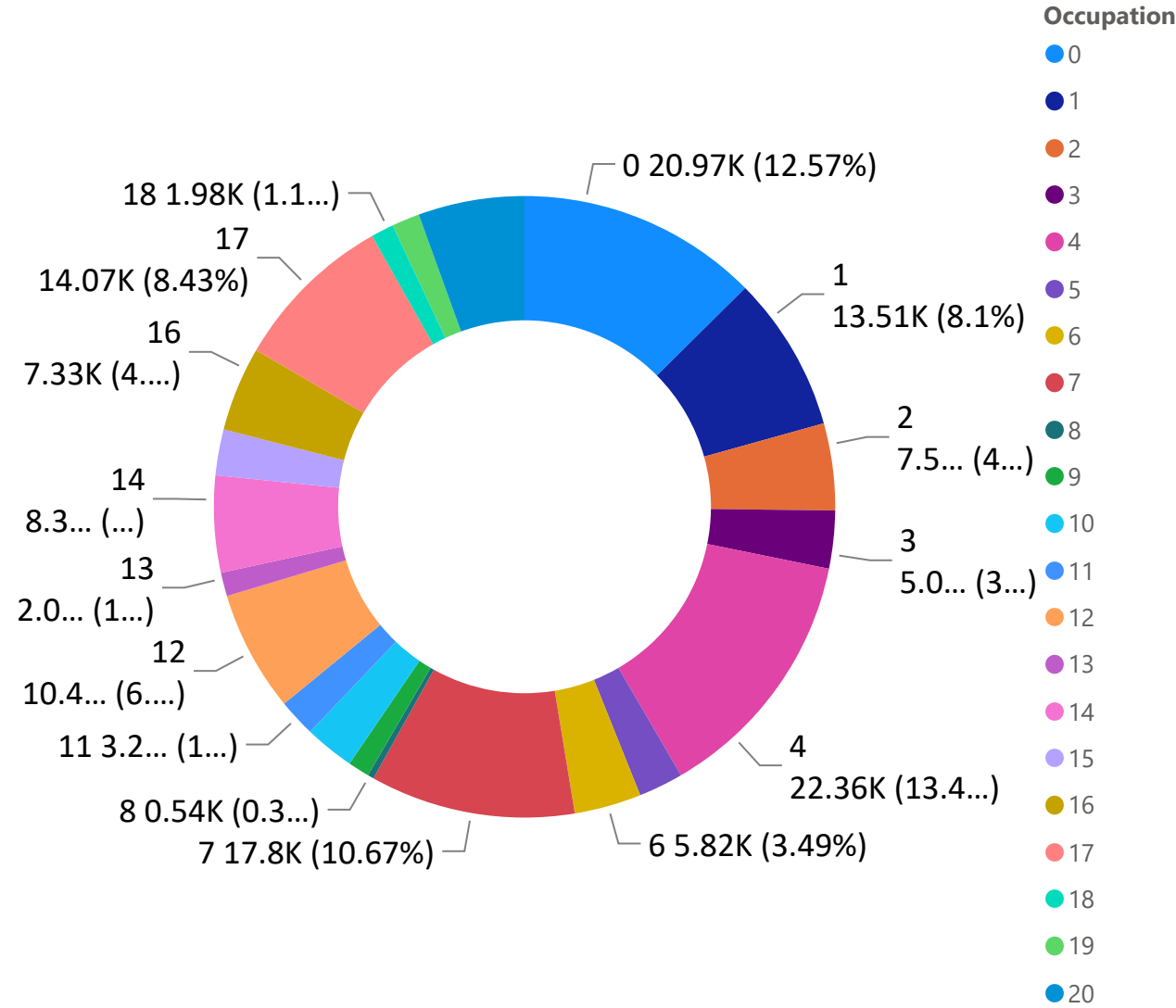
☐ 36-45

☐ 46-50

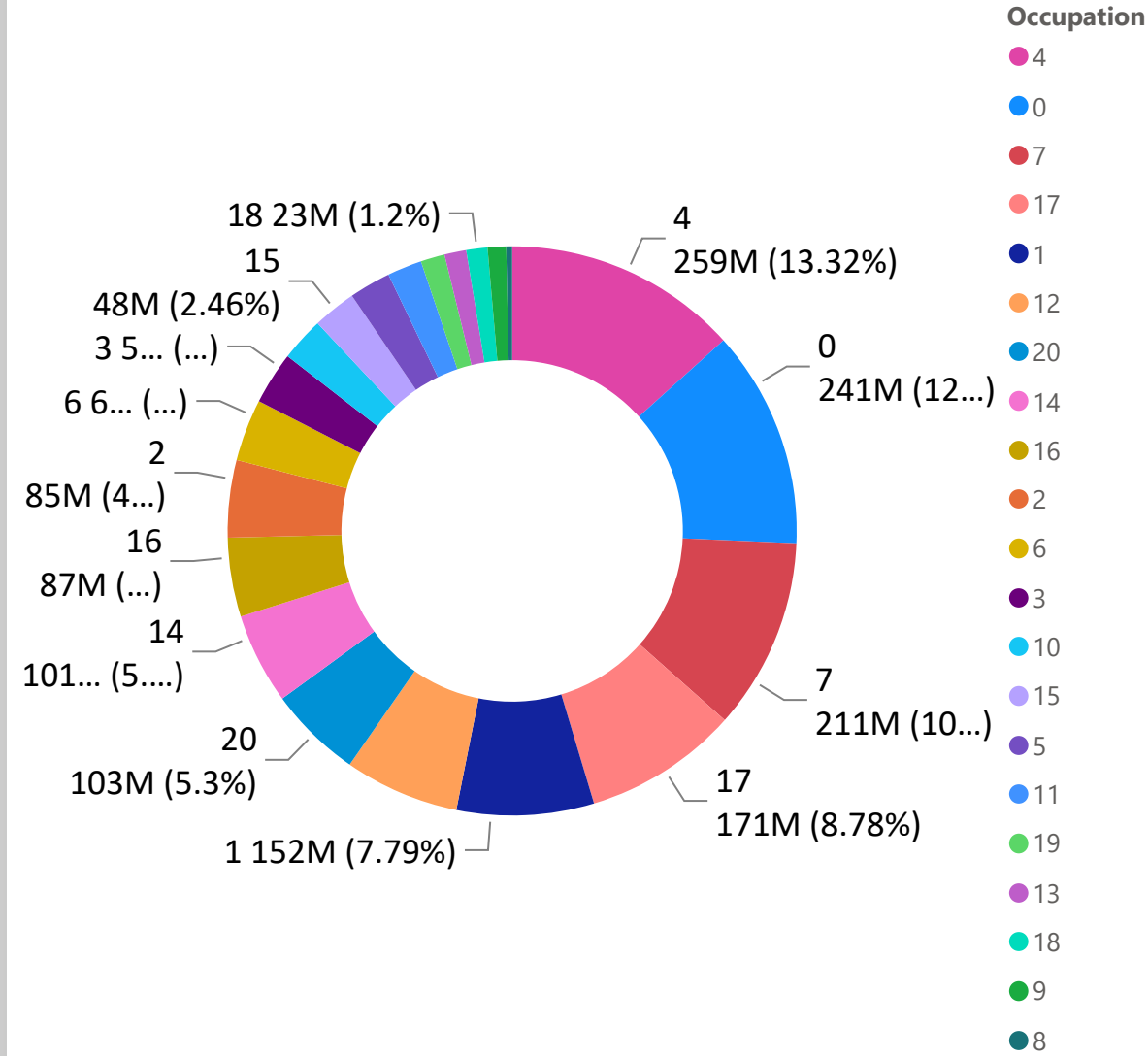
☐ 51-55

☐ 55+

Count of User_ID by Occupation

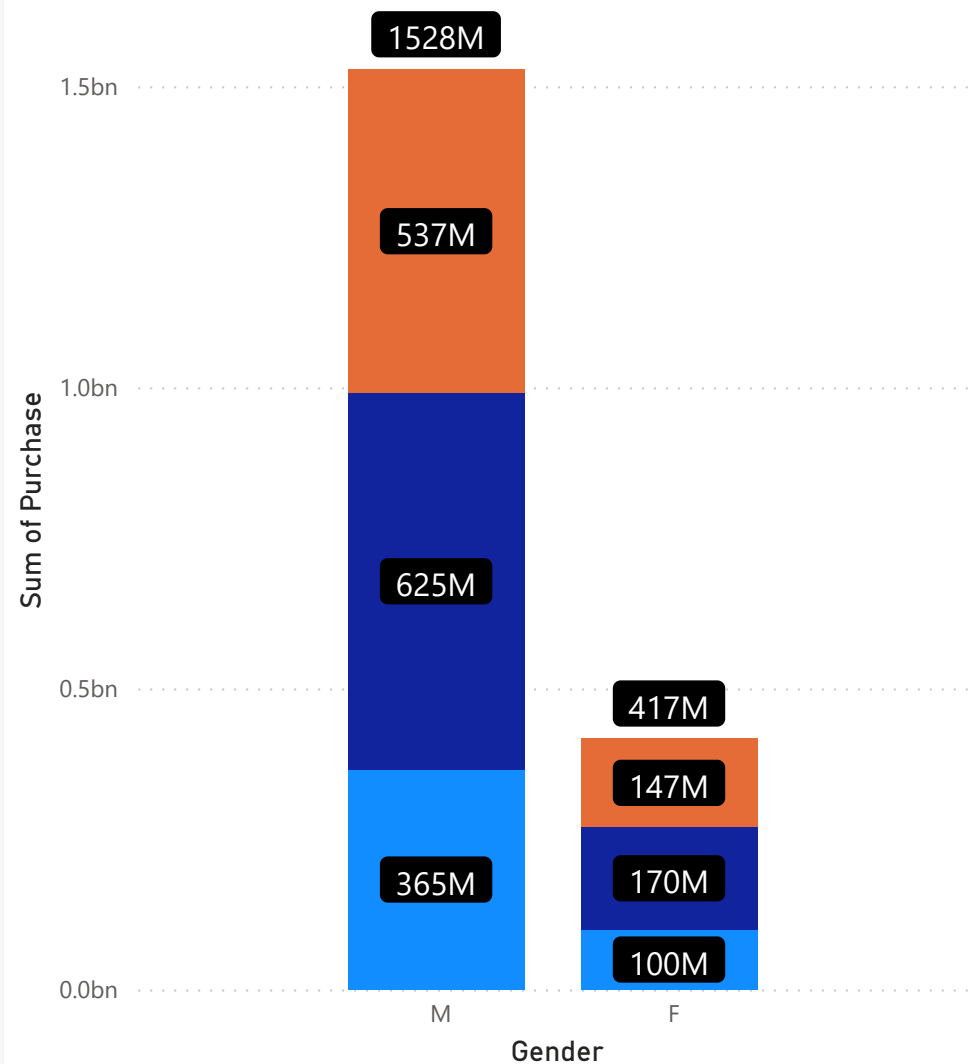


Sum of Purchase by Occupation

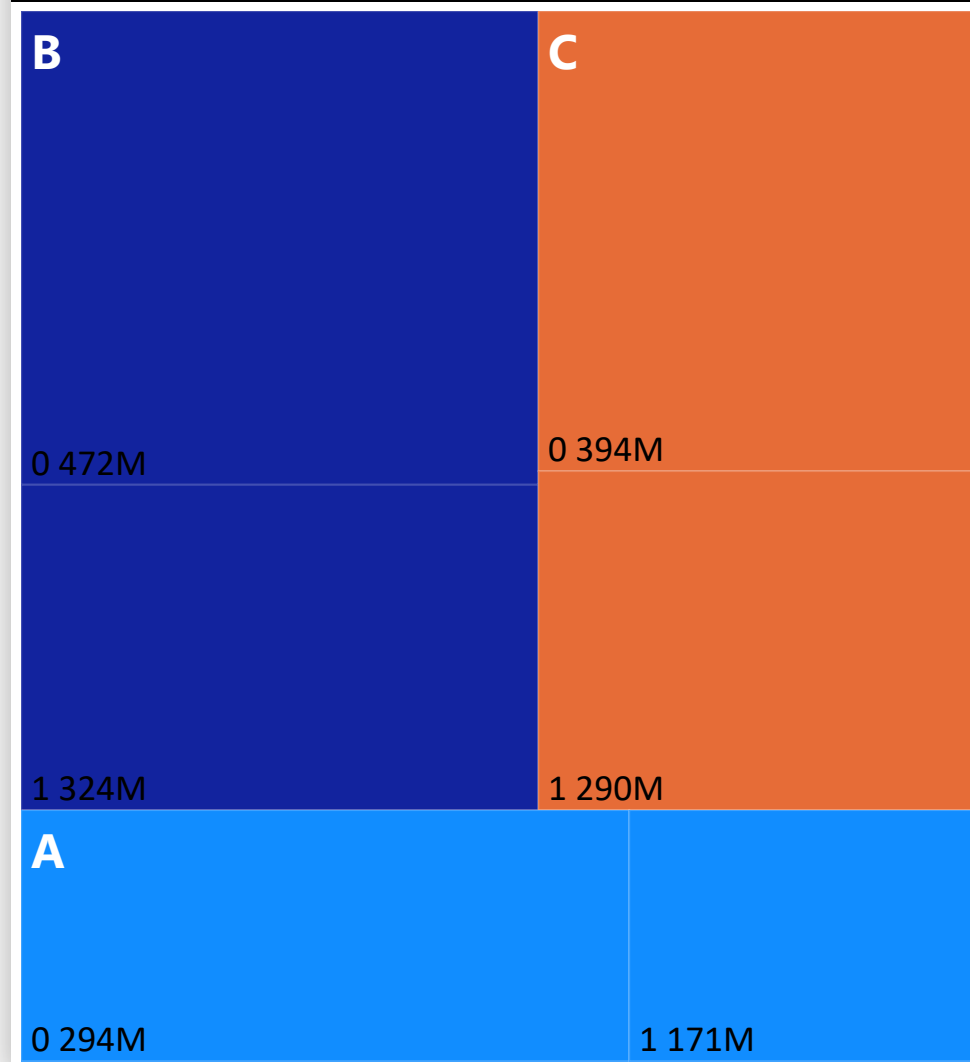


Sum of Purchase by Gender and City_Category

City_Category ● A ● B ● C



Sum of Purchase by City_Category and Marital_Status



Total Purchase

2bn

Total Purchase

City_Category Sum of Purchase

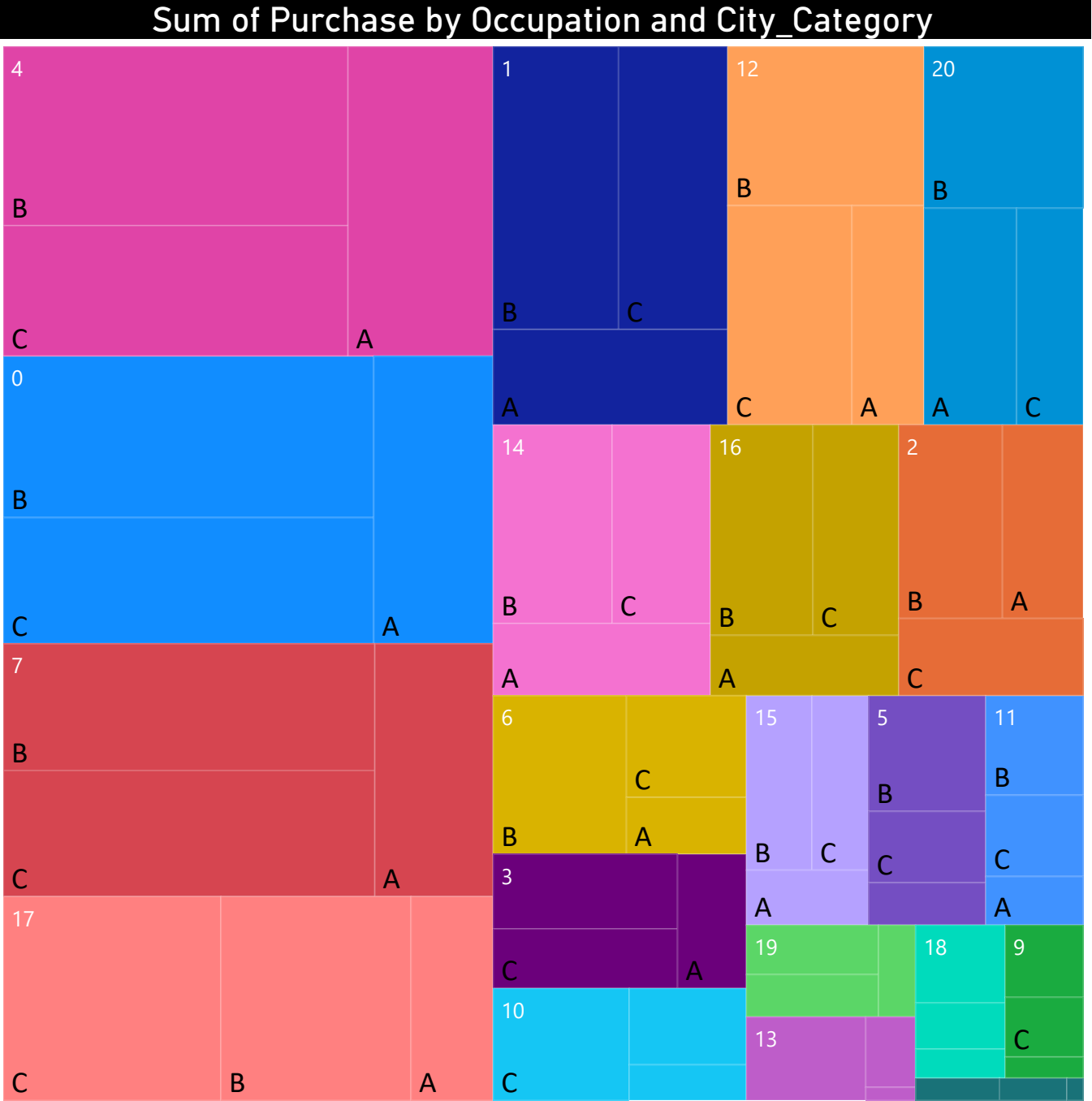
B	795M
C	684M
A	465M
Total	1945M

Marital_Status Sum of Purchase

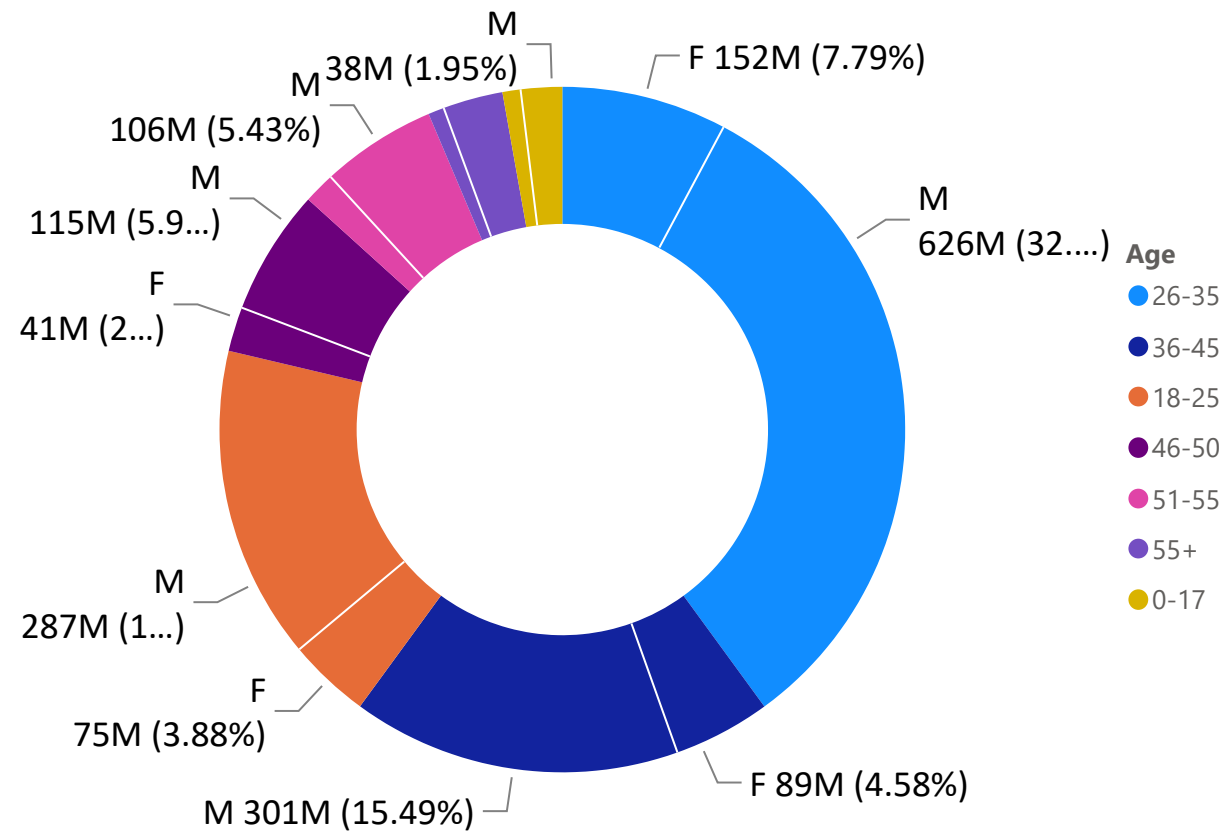
0	1159455486
1	785362913
Total	1944818399

Occupation	A	B	C	Total
4	76770268	105451672	76839994	259061934
0	58654067	102223900	79802931	240680898
7	51079538	80481707	79900349	211461594
17	28639234	66310614	75877726	170827574
1	38242242	60622291	52687861	151552394
12	26951405	53385947	46626305	126963657
20	34360431	44019179	24645491	103025101
14	26806389	40378404	33331393	100516186
16	19425043	36901224	30826631	87152898
2	26724140	34306895	24345487	85376522
6	11617598	36092778	20814373	68524749
3	15762678	23581771	18733877	58078326
10	7134828	15293661	26085034	48513523
15	11475839	19580471	16866962	47923272
5	8467813	23152297	14285912	45906022
11	8094914	16590235	13556595	38241744
19	5815187	11192866	9583998	26592051
13	1119561	5988702	17059024	24167287
Total	465007352	795469852	684341195	1944818399

Product_ID	A	B	C	Total
P00025442	5471513	9865100	12658553	27995166
P00110742	5373062	10005741	11343506	26722309
P00059442	5447499	8973276	9917568	24338343
P00184942	4374877	8822830	11137180	24334887
P00112142	4650132	8358296	11207578	24216006
P00237542	4806521	8638106	9980949	23425576
P00057642	4785523	8165935	10151322	23102780
P00010742	3822022	8414463	9927668	22164153
P00110842	5047842	7737262	8605618	21390722
P00046742	3928422	7859484	9364976	21152882
P00080342	4408019	7561796	9160491	21130306
P00148642	4326651	7758164	8731472	20816287
P00145042	4238384	7755326	8417632	20411342
P00114942	4327307	7424842	7450761	19202910
P00112542	3950827	6630883	7567327	18149037
P00270942	3597561	6514931	6411243	16523735
P00242742	3237614	6162183	6955341	16355138
P00111142	3588996	6296563	6444681	16330240
Total	465007352	795469852	684341195	1944818399



Sum of Purchase by Age and Gender



Conclusion

Top Buyer
1004277

Top Selling Product ID
P00025442

**Top Product
Category**
1

Top City
B

Top age
26-35

Top Occupation
4

Top Marital Status
0