Insurance expenses Project

Technology - Power BI

Overview of Project

Project Overview:

In this Power BI project, we aim to gain valuable insights into expenses by visualizing data using various demographic attributes such as age, gender, sex, and location. By harnessing the power of data visualization through pie charts, bar charts, and other chart types, we seek to uncover patterns, trends, and correlations within our expense data.

BluePrint of Dataset

1	age	sex	bmi	childre	smoker	region	expenses
2	19	female	27.9	0	yes	southwest	16884.92
3	18	male	33.8	1	no	southeast	1725.55
4	28	male	33	3	no	southeast	4449.46
5	33	male	22.7	0	no	northwest	21984.47
6	32	male	28.9	0	no	northwest	3866.86
7	31	female	25.7	0	no	southeast	3756.62
8	46	female	33.4	1	no	southeast	8240.59
9	37	female	27.7	3	no	northwest	7281.51
10	37	male	29.8	2	no	northeast	6406.41
11	60	female	25.8	0	no	northwest	28923.14
12	25	male	26.2	0	no	northeast	2721.32
13	62	female	26.3	0	yes	southeast	27808.73
14	23	male	34.4	0	no	southwest	1826.84
15	56	female	39.8	0	no	southeast	11090.72
16	27	male	42.1	0	yes	southeast	39611.76
17	19	male	24.6	1	no	southwest	1837.24
18	52	female	30.8	1	no	northeast	10797.34
19	23	male	23.8	0	no	northeast	2395.17
20	56	male	40.3	0	no	southwest	10602.39
21	30	male	35.3	0	yes	southwest	36837.47
22	60	female	36	0	no	northeast	13228.85
23	30	female	32.4	1	no	southwest	4149.74
24	18	male	34.1	0	no	southeast	1137.01
25	34	female	31.9	1	yes	northeast	37701.88

Sum of expenses of all Customer

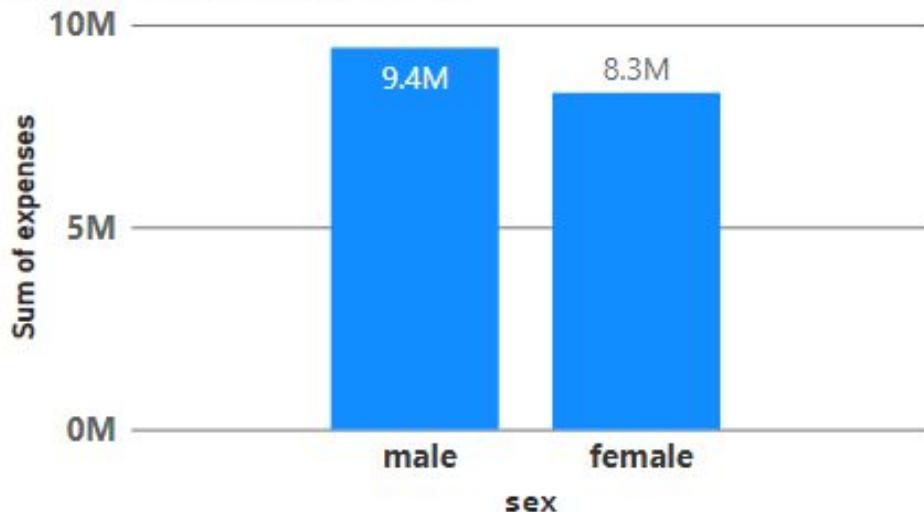**17.76M**
Sum of expenses

9.43M
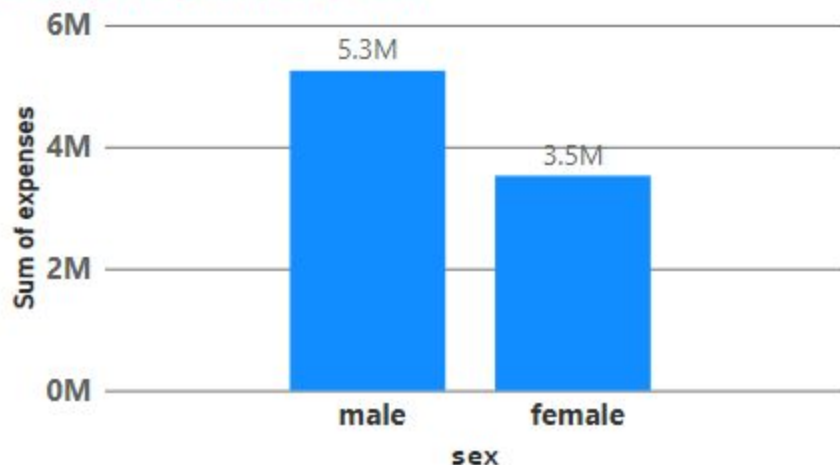Sum of expenses of male

8.32M
Sum of expenses of female

Sum of expenses by sex

Sum of expenses by region and sex

sex ● female ● male

region	female	male
southeast	2.4M	3.0M
northeast	2.1M	2.3M
northwest	2.0M	2.0M
southwest	1.8M	2.2M
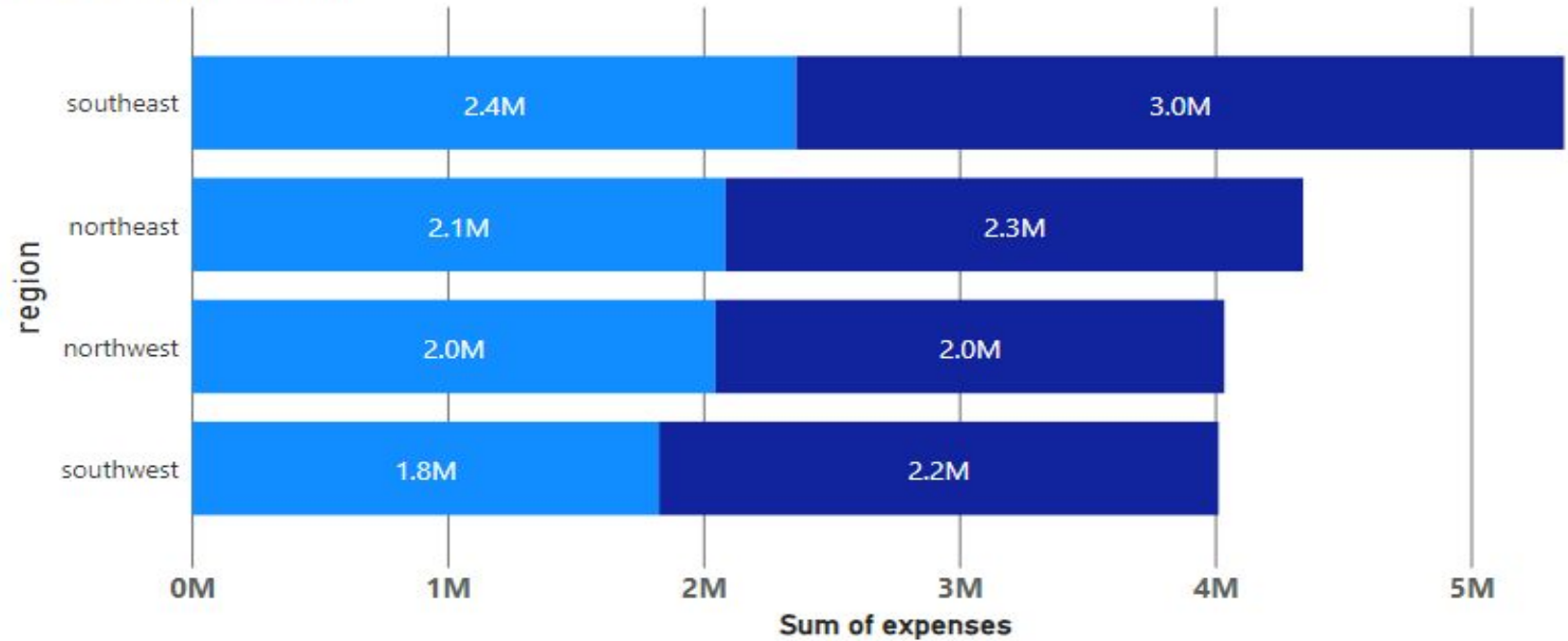
> Region southeast has highest expanses
> Region southwest has lowest expenses

Sum of expenses of all Customer who do not smoke

8.97M

Sum of expenses

4.18M

Sum of expenses of male

4.79M

Sum of expenses of female

Sum of expenses by sex
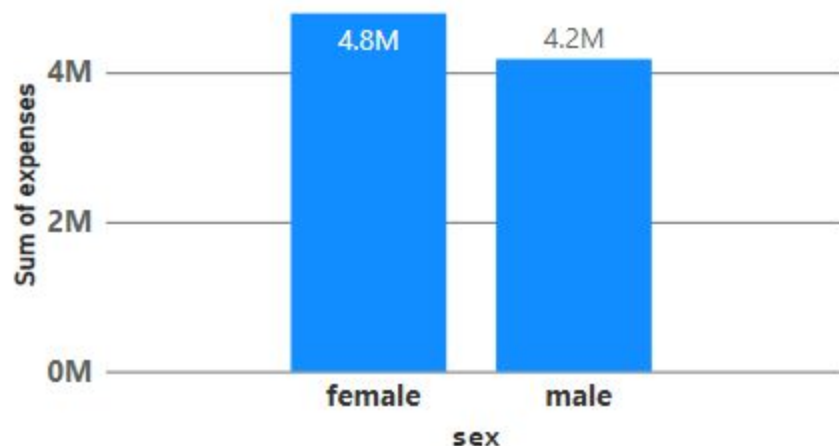
Sum of expenses of all Customer who smoke

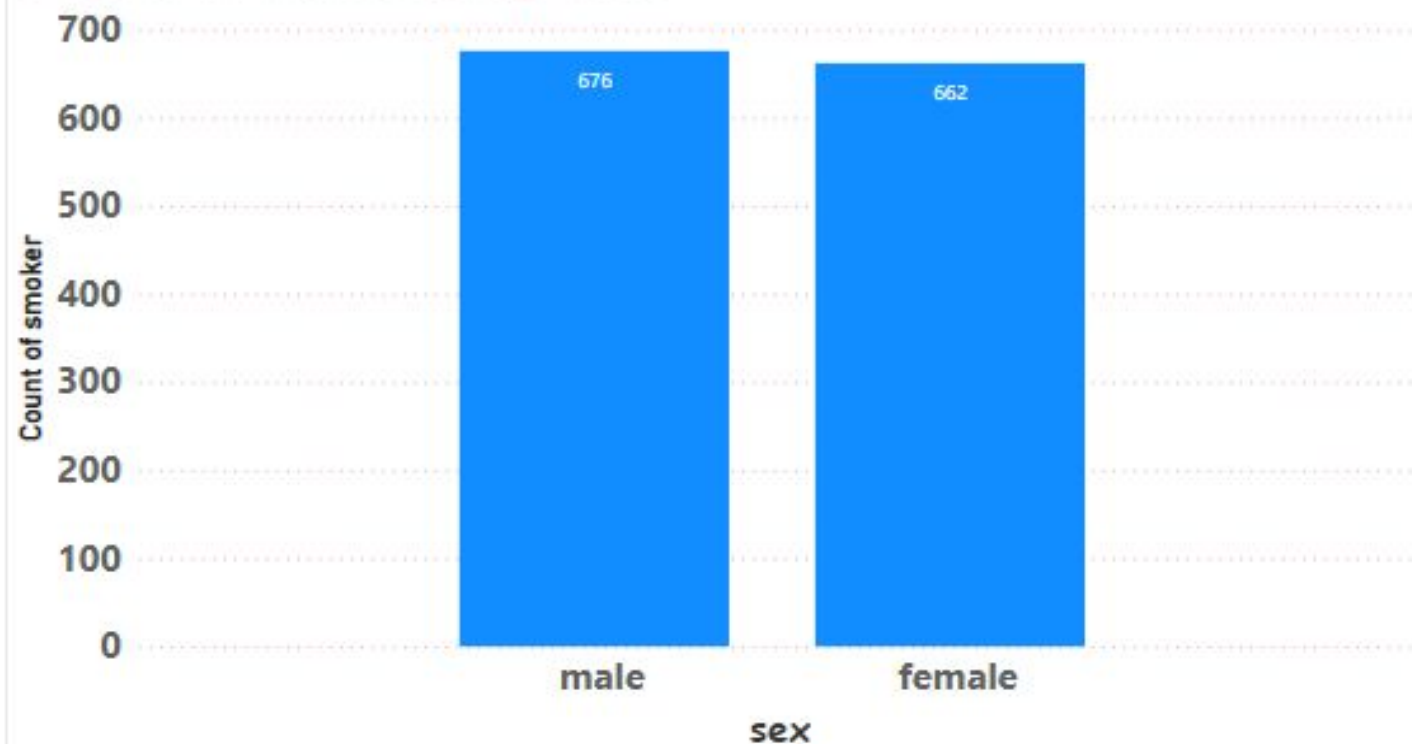**8.78M**

Sum of expenses

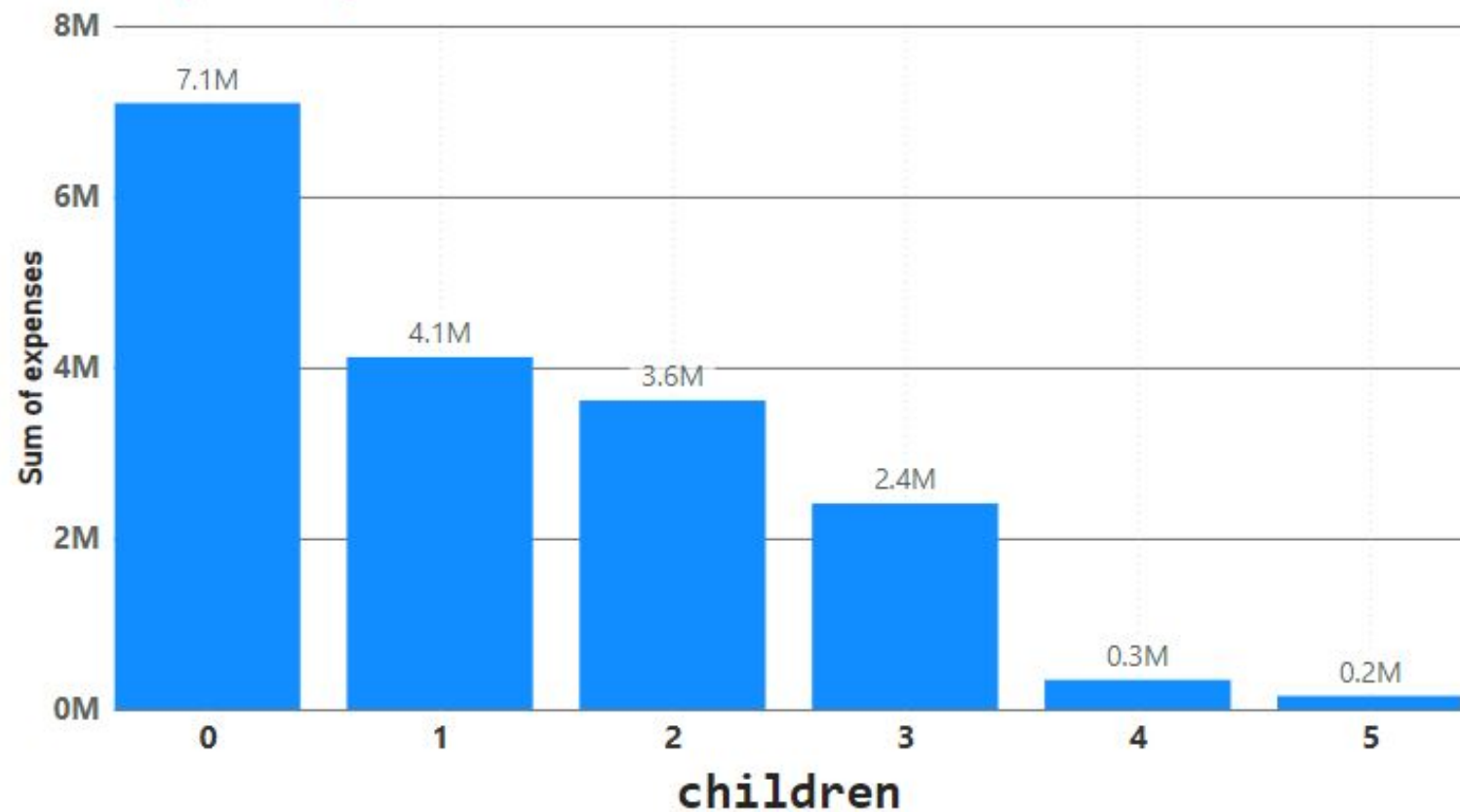**5.25M**

Sum of expenses of male

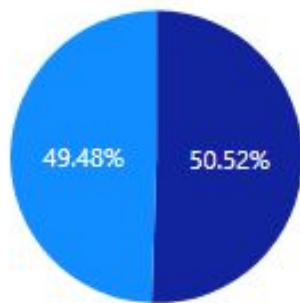**3.53M**

Sum of expenses of female

Sum of expenses by sex

Count of smoker by sex

	male	female
Count	676	662

Sum of expenses by children

Count of customer by sex

sex	
50.52%	male
49.48%	female

Count of different region
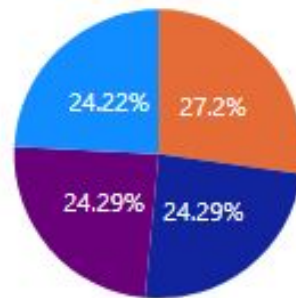
region	
27.2%	southeast
24.29%	northwest
24.29%	southwest
24.22%	northeast

Count of percentage of smoker
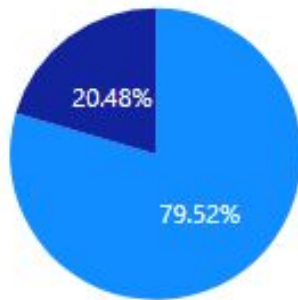
smoker	
79.52%	no
20.48%	yes

Children by children
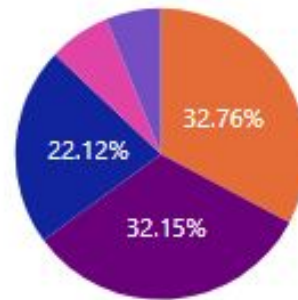
children	
32.76%	2
32.15%	3
22.12%	1
	4
	5
	0

Conclusion

> Dataset have almost equal number of male and female customer

> Male customer have higher expenses than female

> But female who do not smoke have higher expenses

> Southeast people have highest cumulative expenses