MEDICAL COST PERSONAL





1.EXECUTIVE SUMMARY

- Overview about Medical Cost Personal.
- Number of people check medical and charges
- BMI rate by age categories and charges.





2.INTRODUCTION

- Specify numer of people average charges, average bmi by sex, bmi categories and age categories.
- How Age affects Health Insurance Cost?
- Obese rate in adult people.

3.METHODOLOGY

- Data Collection
- + Collecting Data from Kaggle
- Data Wrangling
- + Duplicate column
- + Return values with specified conditions using Case statement (SQL)
- Exploratory Data Analysis
- + Analyze, explore data (using View)

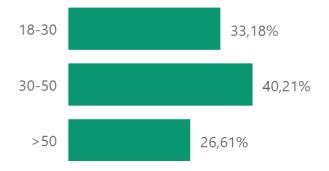


4. RESULT

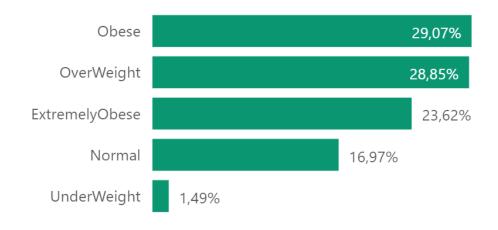
	age	age_categories	sex	bmi	bmi_categories	children	smoker	region	charges
1	19	18-30	female	27,9	OverWeight	0	yes	southwest	16884,924
2	18	18-30	male	33,77	Obese	1	no	southeast	1725,5523
3	28	18-30	male	33	Obese	3	no	southeast	4449,462
4	33	30-50	male	22,705	Normal	0	no	northwest	21984,47061
5	32	30-50	male	28,88	OverWeight	0	no	northwest	3866,8552
6	31	30-50	female	25,74	OverWeight	0	no	southeast	3756,6216
7	46	30-50	female	33,44	Obese	1	no	southeast	8240,5896
8	37	30-50	female	27,74	OverWeight	3	no	northwest	7281,5056
9	37	30-50	male	29,83	OverWeight	2	no	northeast	6406,4107
10	60	>50	female	25,84	OverWeight	0	no	northwest	28923,13692
11	25	18-30	male	26,22	OverWeight	0	no	northeast	2721,3208
12	62	>50	female	26,29	OverWeight	0	yes	southeast	27808,7251
13	23	18-30	male	34,4	Obese	0	no	southwest	1826,843
14	56	>50	female	39,82	ExtremelyObese	0	no	southeast	11090,7178
15	27	18-30	male	42,13	ExtremelyObese	0	yes	southeast	39611,7577
16	19	18-30	male	24,6	Normal	1	no	southwest	1837,237
17	52	>50	female	30,78	Obese	1	no	northeast	10797,3362

4.1.CHARTS

% Number of People by age_categories



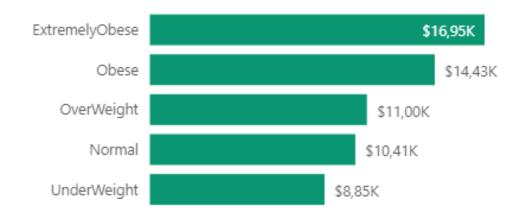
% Number of People by bmi_categories

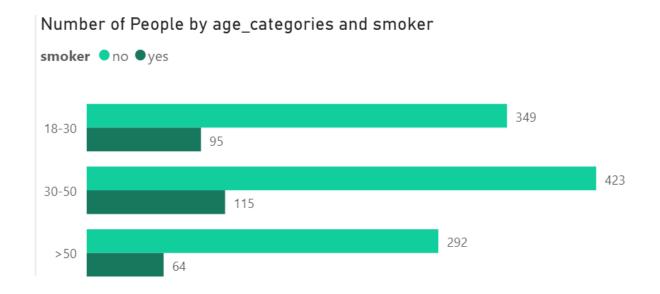


- There are **1338** people (**49.48%** men and **50.52%** women).
- 40.21% among those ages 30-50 include those who were financially stable, so they pay more attention to their health.
- Most of people belong to the over weight group (over weight, obese and extremely obese) with 81.54% and only 1.49% belong to the under weight group.

4.1.CHARTS

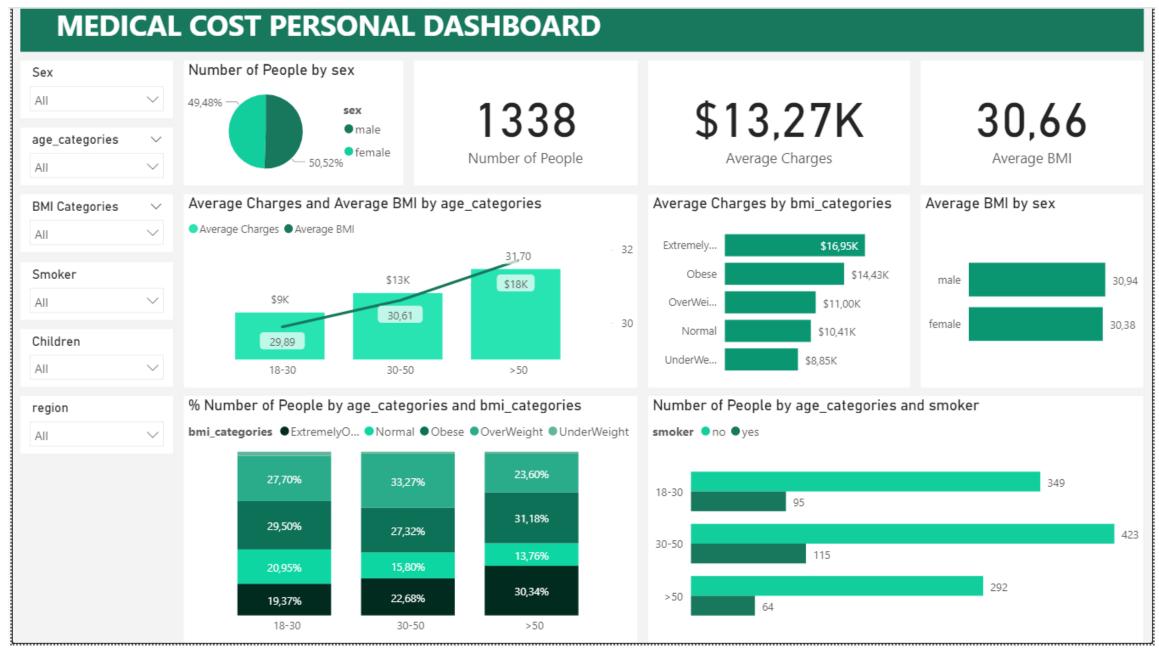
Average Charges by bmi_categories





- Average BMI of men higher than women. Men also tend to have higher smoking rate than woman (58% & 42%).
- Average charges increase with BMI category levels (from under weight to extremely obese).
- For people aged 18-50, they have higher pevalence of smoking than people over 50 (77% & 23%)

4.2. DASHBOARD



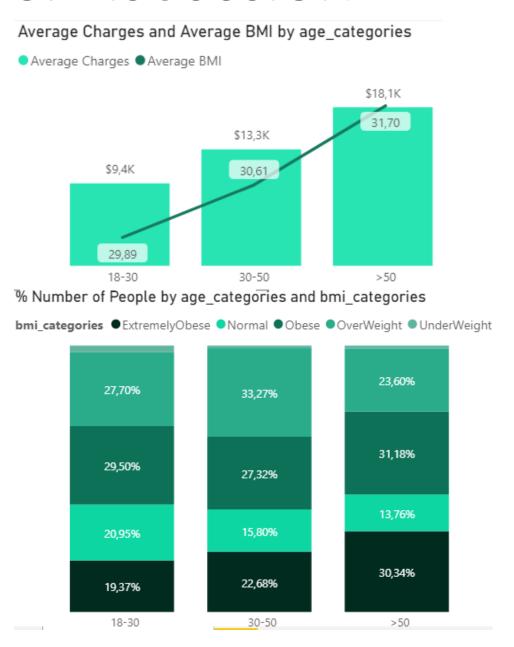


How Age affects Health Insurance Cost?

 Obese rate in adult people.



5. DISCUSSION



- Average charges and average BMI increase with age categories. For people over 50, average charge was \$18.1K, compared to those aged 18-30 it doubles, just \$9,4k. It means the older you are, the higher your medical quotes.
- The obesity prevalence (extremely obese, obese, over weight) was 76.12% among adults aged 18-30, 83.27% among adults aged 30-50 and 85,12% among adults aged 50 and older.
- Nowadays, people are so busy and they use fast food so much and lazy to workout. This is one of the reasons make them easily get diseases like obesity or heart disease.

