



Waiter's Tips

Total Bill
4.83K

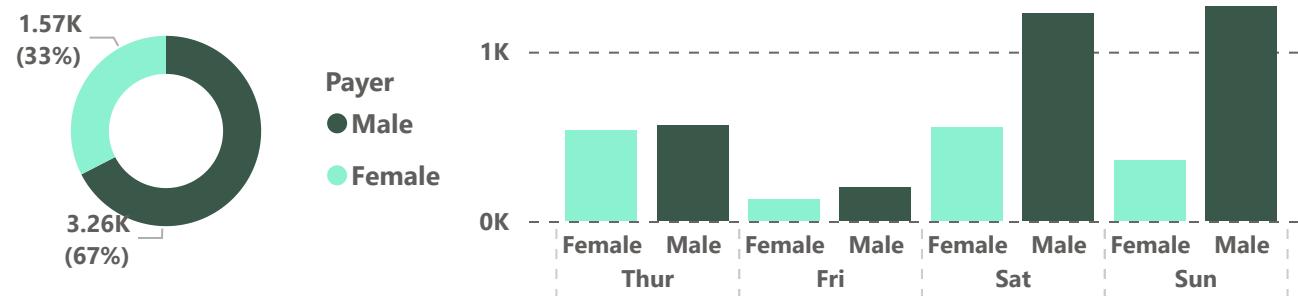
Total Tips
0.73K

100.0%

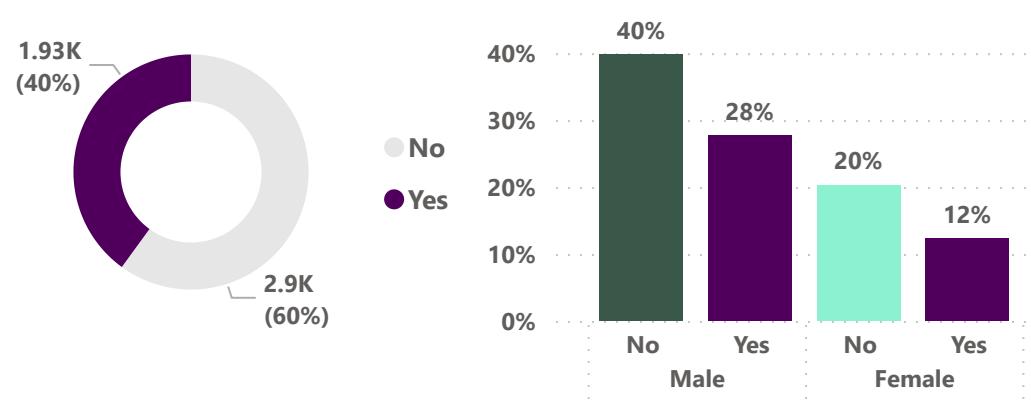
100.0%



Total Bill by Gender and by Day



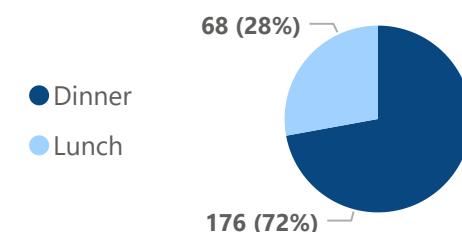
Total Bill by Smoking and by Gender



Some General Results

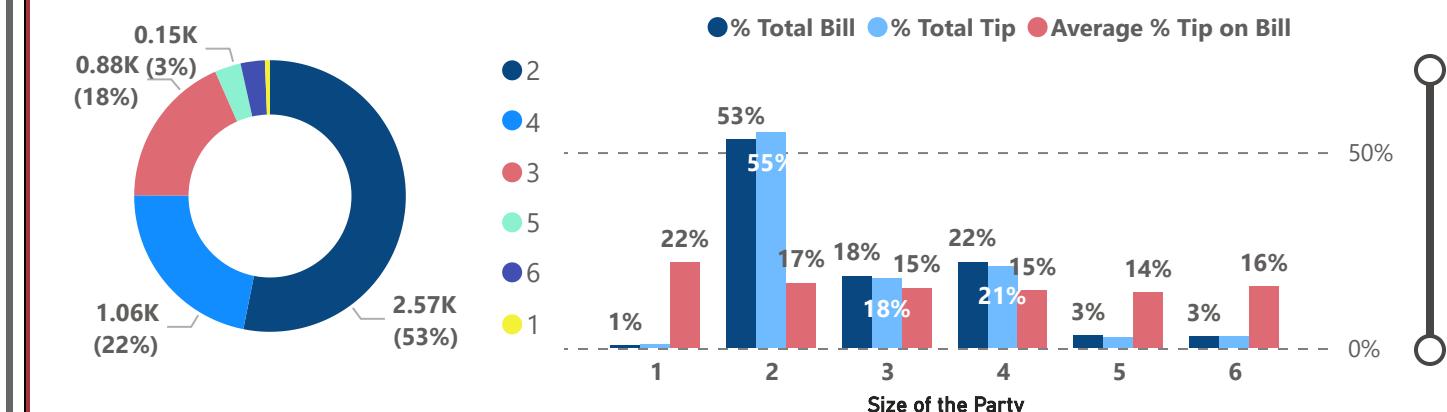
1. **Gender**: Men paid 67 % of all bills.
On weekends men paid significantly more than women.
2. **Smoking**: Smokers make up 40 % of all bills.
The most smoking payers are men (nothing unusual).
3. **Size**: The most popular size of the party is 2 :
53 % of all bills and 55 % of all tips belong to it;
while the highest *average* tip corresponds to 1 size - 22 %.

Total Bill by Time



4. **Time**: The most parties occur during dinner time (that's usual).
5. **Tip**: The average percentage on bill is **16 %**.

Total Bill by Size of the Party





Waiter's Tips : Women

Total Bill
1.57K

Total Tips
0.25K

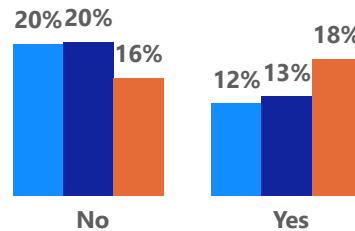


32.5%

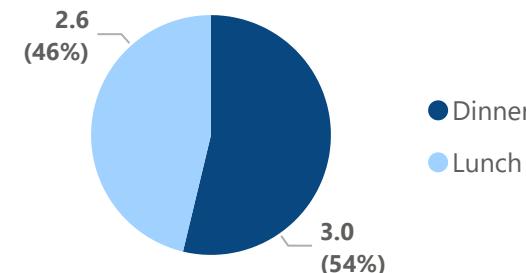
33.7%

Smokers

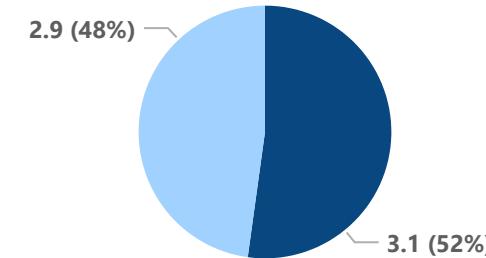
● % Total Bill ● % Total Tip ● % Tip on Bill (Average)



Average Tip by Time

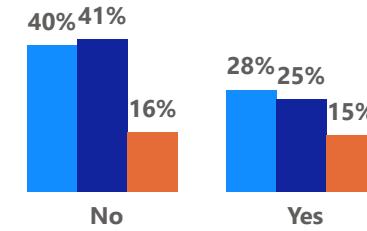


Average Tip by Time



Smokers

● % total_bill ● % total_tip ● % Average of tip%_bill

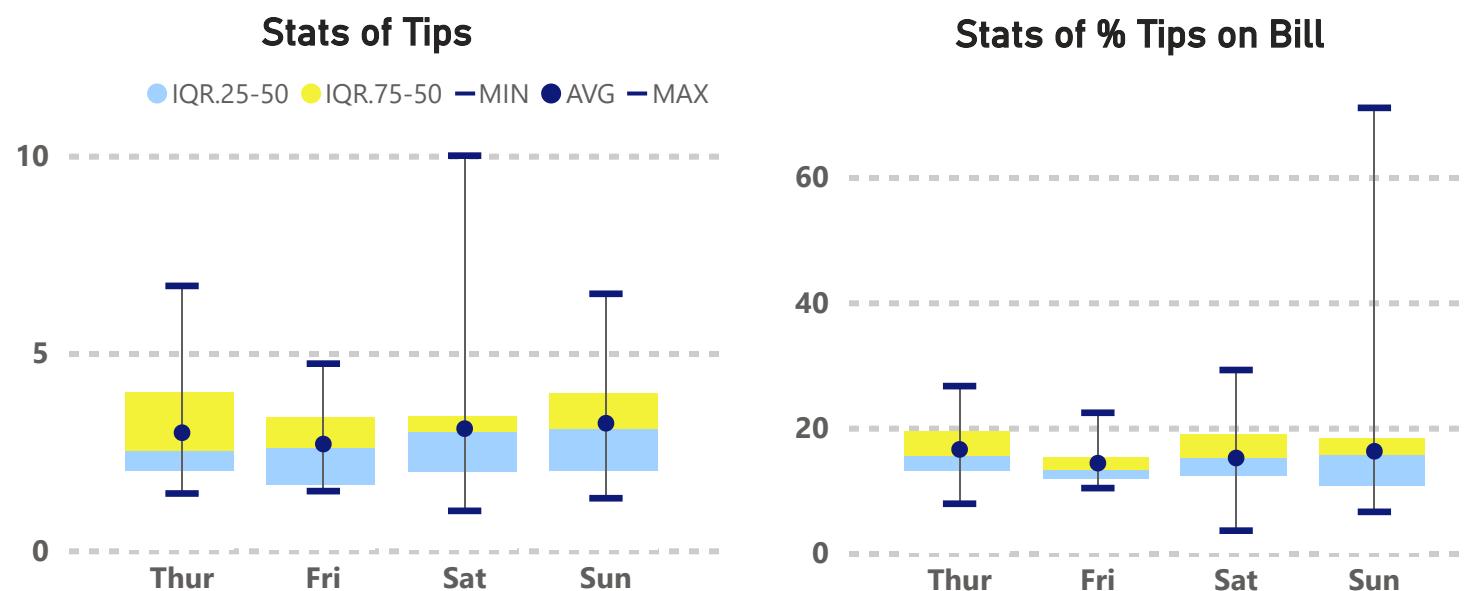
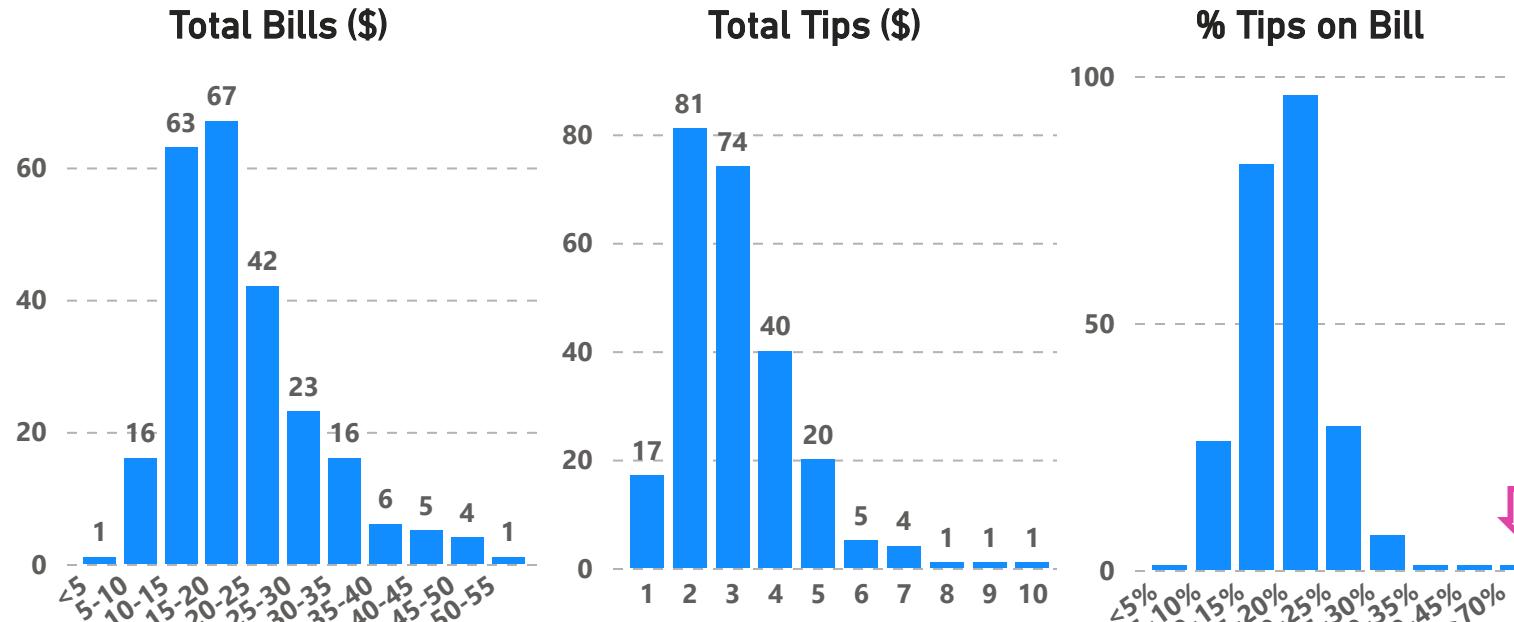


Size	Thur	Fri	Sat	Sun	Total
1	18.17%		23.18%		21.51%
2	16.16%	20.08%	15.38%	21.44%	17.08%
3	13.45%	18.77%	15.49%	16.79%	15.99%
4	12.86%		11.05%	14.70%	13.27%
5			17.22%		17.22%
6	16.29%				16.29%
Total	15.75%	19.94%	15.65%	18.16%	16.65%

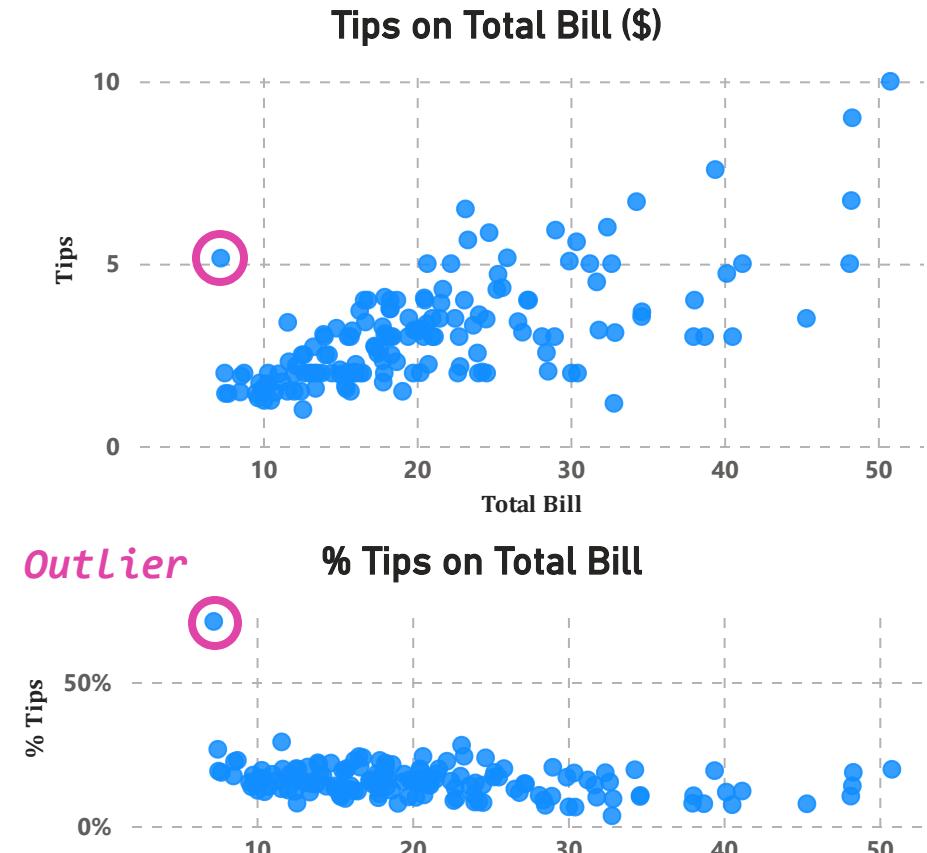
1. The average percentage of tips on bill given by women (**16.6 %**) is slightly higher than by men (**15.8 %**) ; although the spread of their values is smaller 6-42 % against the 4-71 %.
2. **Smoking** : The smoking women in average leave more tips (**18 %**), than smoking men (**15 %**), while tips of non-smoking for both are equal (**16 %**).
3. **Time** : Typically, the biggest tips come during dinner time, though our charts show that on average dinner tips are only slightly higher.
4. **Size** : Tips as a percentage of the bill are higher for sizes 1 and 2, than for sizes 3 and 4.



Distributions of Numeric Variables



Some Dependencies



Info

This is a simple analysis of a small dataset "A Waiter's Tips" from Kaggle, which will be used to build the model for prediction the tip amount.

The next steps are preprocessing and building a model (to be continued ...).