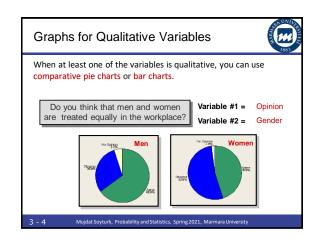
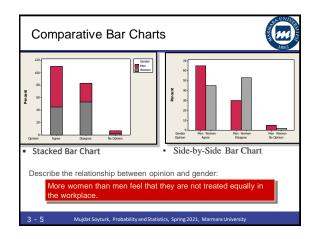
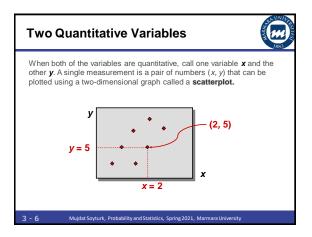
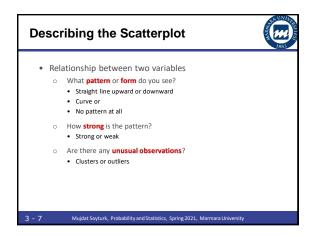


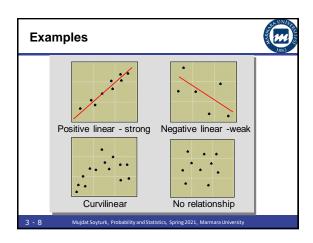
## When two variables are measured on a single experimental unit, the resulting data are called bivariate data. You can describe each variable individually, and you can also explore the relationship between the two variables. Bivariate data can be described with Graphs Numerical Measures

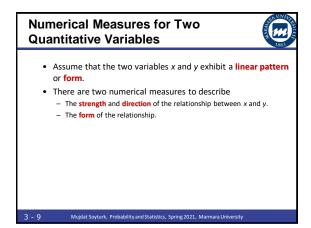


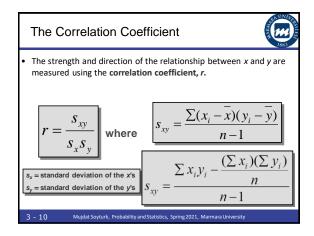


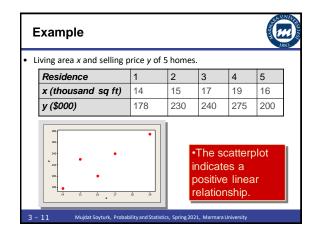


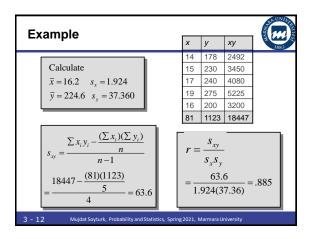


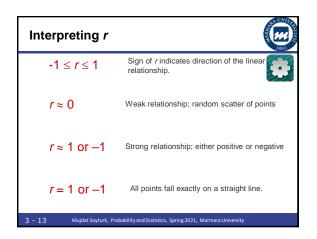


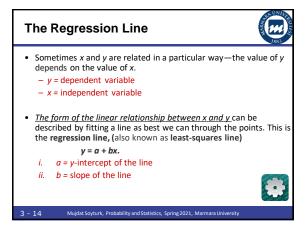


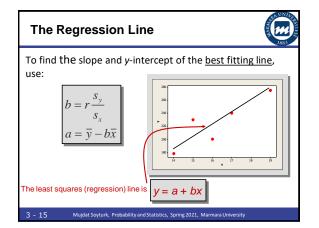


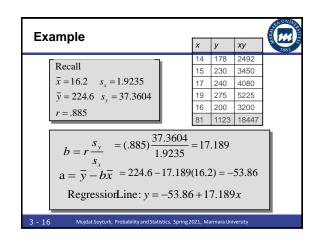


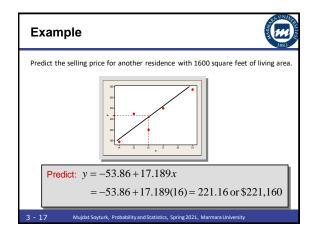


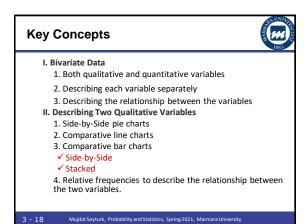












## **Key Concepts**



- III. Describing Two Quantitative Variables
  - 1. Scatterplots
  - ✓ Linear or nonlinear pattern
  - √ Strength of relationship
  - ✓ Unusual observations; clusters and outliers
  - 2. Covariance and correlation coefficient
  - 3. The best fitting line
  - ✓ Calculating the slope and *y*-intercept
  - ✓ Graphing the line
  - ✓ Using the line for prediction

3 - 19

Mujdat Soyturk, Probability and Statistics, Spring 2021, Marmara University