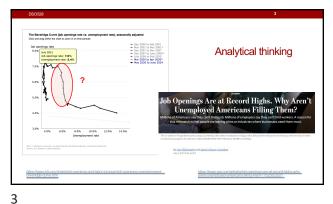
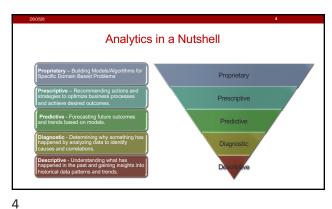


Learning Objectives Analytical thinking > Describe variables in the data set Explain basic measures for qualitative and quantitative data Load and view data in JMP and Colab > Develop basic measures different types of variables > Build simple graphs to visualize data and explain findings

2



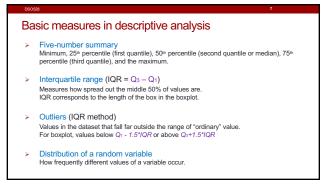


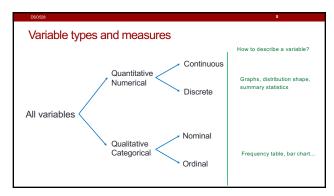
Exploratory Data Analysis (EDA, Descriptive Analytics) "In statistics, exploratory data analysis (EDA) is an approach of analyzing data sets to summarize their main characteristics, often using statistical graphics and other data visualization methods. A statistical model can be used or not, but primarily EDA is for seeing what the data can tell us beyond the formal modeling and thereby contrasts traditional hypothesis testing. Contrasts traditional injudices testing. Exploratory data analysis has been promoted by John Tukey since 1970 to encourage statisticians to explore the data, and possibly formulate hypotheses that could lead to new data collection and experiments."

Exploratory Data Analysis (EDA, Descriptive Analytics) 1. Understand the business context and project objectives. 2. Confirm the availability of data and recognize any limitations of data sources. 3. Propose treatments for missing values and errors, if applicable Clarify the definitions and explanations of all variables (pay attention to units). Identify outliers and propose methods for handling them. 6. Visualize the data and document key findings. 7. Transform the data, if necessary. 8. Summarize findings and insights.

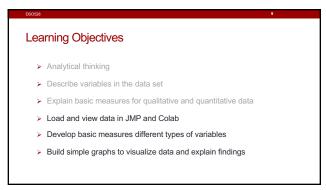
6 5

1





7 8



9