

Data-Driven Communications

Unit 2: Data Analysis

Course Overview

- Unit 1: Defining the Business Objective and Sourcing Data
- Unit 2: Data Analysis
- Unit 3: Data Visualization Principles and Processes
- Unit 4: Visualization Tools and Techniques
- Unit 5: Evaluating Data Visualizations
- Unit 6: Storytelling with Data



Unit 2 Learning Outcomes

- identify and define data analysis methods and models
- differentiate data analysis methods and models
- classify data analysis findings
- evaluate data analysis findings
- summarize data analysis findings
- apply newly learned knowledge, skills, and abilities to real-world datasets



Why are Learning Outcomes Important?

- Every learning outcome ties back to course materials and content.
- Assessments are tied to each learning outcome.
- Test preparation



Unit 2 Topics

- Data Analysis Methods and Models
- Synthesizing Data Findings



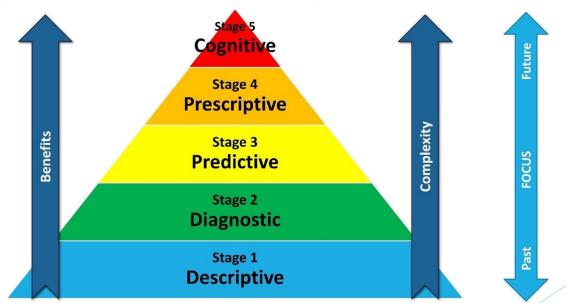
Unit 2 Vocabulary

- cognitive analytics
- decision / diagnostic analytics
- descriptive analytics
- frequency distribution
- predictive analytics
- prescriptive analytics
- qualitative data
- quantitative data



The Stages of Analytics Development

Stages of Analytics Development



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Quantitative and Qualitative Data and Methods

Quantitative

- Data
 - Weight
 - Height
 - Population
 - Units Purchased
- Methods
 - Experimental research
 - Survey research
 - Content analysis

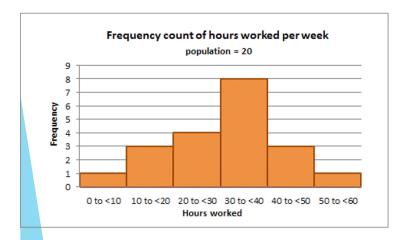
Qualitative

- Data
 - Colors
 - Addresses
 - Names
- Methods
 - Focus groups
 - Interviews
 - Observations
 - Case Studies

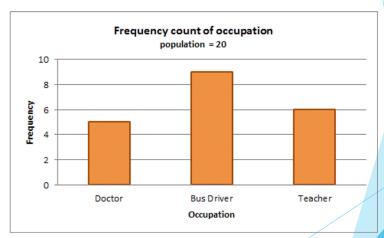


Quantitative and Qualitative Frequency Distributions

Quantitative data



Qualitative data



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Conclusion

Unit 2 Learning Outcomes:

- identify and define data analysis methods and models
- differentiate data analysis methods and models
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What's next?

Unit 3: Data Visualization Principles and Processes



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