

Congratulations! You passed!

Grade
 received **93.75%**

Latest Submission
 Grade 93.75%

To pass 80% or
 higher

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1. Fill in the blank: Exploratory data analysis is the process of investigating, organizing, and analyzing datasets and _____ their main characteristics.

1 / 1 point

- ☐ modifying
☐ augmenting
☒ summarizing
☐ preparing

 **Correct**

2. A data professional works in the research and development department of a high-tech firm. They receive a dataset that will be used when creating next year's products. They review the data and consider key questions about it. Which exploratory data analysis process does this scenario describe?

1 / 1 point

- ☐ Cleaning
☒ Discovering
☐ Validating
☐ Joining

 **Correct**

3. What processes do data professionals perform during the structuring exploratory data analysis step? Select all that apply.

1 / 1 point

- ☒ Organize raw data

 **Correct**

- ☒ Categorize data into categories representing the dataset

 **Correct**

- ☒ Transform raw data.

 **Correct**

- ☐ Create data visualizations

4. Which of the following statements correctly compare data cleaning to data validation during exploratory data analysis? Select all that apply.

0.75 / 1 point

- ☐ Data cleaning involves eliminating any misspellings in the data. Validating does not.

- ☒ Validating is the process of removing any errors in the data. Cleaning is the process of confirming that the data-validation process did not introduce any errors.

 **This should not be selected**

Review [the video about exploratory data analysis](#). [↗](#)

- ☒ When cleaning, a data professional looks for missing values, duplicate entries, and extreme outliers. When validating, a data professional uses digital tools to confirm the data types within a dataset.

 **Correct**

- ☒ Cleaning involves ensuring the data is useful. Validating involves verifying the data is of high quality.

 **Correct**

5. Fill in the blank: A data professional discovers that their dataset does not have enough data. Therefore, they choose to add more data during the _____ process.

1 / 1 point

- ☒ joining
- ☐ validating
- ☐ cleaning
- ☐ structuring

✓ Correct

6. What are some best practices associated with visualizing data during exploratory data analysis? Select all that apply.

0.75 / 1 point

☒ Ensure visualizations are guided by the story uncovered by the data.

✓ Correct

☐ Design visualizations specifically to support your personal hypotheses.

☒ Create visualizations that are ethical, accessible, and representative of the data.

✓ Correct

☐ Use data visualizations throughout exploratory data analysis to better understand the data.

You didn't select all the correct answers

7. What are some strategies that a data professional might use to help avoid miscommunication in the workplace? Select all that apply.

1 / 1 point

☒ Present primary analysis with a working group to get feedback.

✓ Correct

☒ Understand stakeholders' most important goals before presenting to them.

✓ Correct

☐ Provide audiences with raw data for their own exploration.

☒ Share the PACE plan with all stakeholders.

✓ Correct

8. A data professional works on a project that uses data from a study about farming in Africa. They consider how to use the PACE framework to perform exploratory data analysis practices effectively. Which of the following objectives will this help them achieve? Select all that apply.

1 / 1 point

☐ Conform to client expectations by misrepresenting the data

☒ Maintain focus on the project purpose

✓ Correct

☒ Ensure ethical depictions of the farmers represented in the study

✓ Correct

☒ Confirm that the data represents an appropriate number of African geographical regions

✓ Correct