Review Test Submission: Assessment 1.8

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| User | PaCE GOVINDAN DHANASEKARAN |
| Course | (SCTP) Advanced Professional Certificate in Data Science and AI - Cohort 3 |
| Test | Assessment 1.8 |
| Started | 10/30/25 8:08 PM |
| Submitted | 10/30/25 8:11 PM |
| Status | Completed |
| Attempt Score | 10 out of 10 points |
| Time Elapsed | 2 minutes |
| Results Displayed | All Answers, Submitted Answers, Correct Answers |

* **Question 1**

1 out of 1 points

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|  | How do you remove duplicate rows from a DataFrame based on a subset of columns? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | Correct  df.drop\_duplicates(subset=columns) | | Answers: | Correct  df.drop\_duplicates(subset=columns) | |  | df.unique(subset=columns) | |  | df.removedups(columns) | |  | df.deduplicate(subset=columns) | |  |  |  |

* **Question 2**

1 out of 1 points

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|  | How do you rename column labels in a DataFrame? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | Correct  df.rename(columns=new\_names) | | Answers: | Correct  df.rename(columns=new\_names) | |  | df.columns = new\_names | |  | df.relabel(columns=new\_names) | |  | df.rename\_columns(new\_names) | |  |  |  |

* **Question 3**

1 out of 1 points

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|  | Which method is used to handle outliers by capping them to a maximum or minimum value? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | Correct  df.clip(threshold) | | Answers: | df[df.abs() > threshold] = np.sign(df) \* threshold | |  | df.cap(threshold) | |  | Correct  df.clip(threshold) | |  | df.removeoutliers(threshold) | |  |  |  |

* **Question 4**

1 out of 1 points

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|  | Which method is used to extract groups from a string pattern using regular expressions? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | Correct  df.str.extract(pattern) | | Answers: | Correct  df.str.extract(pattern) | |  | df.str.findall(pattern) | |  | df.str.match(pattern) | |  | df.str.grep(pattern) | |  |  |  |

* **Question 5**

1 out of 1 points

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|  | How do you convert a column of strings to categorical data type? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | Correct  df['column'] = df['column'].astype('category') | | Answers: | Correct  df['column'] = df['column'].astype('category') | |  | df['column'] = pd.Categorical(df['column']) | |  | df['column'] = df['column'].category() | |  | df['column'].convert\_dtypes() | |  |  |  |

* **Question 6**

1 out of 1 points

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|  | Which method is used to create dummy variables from a categorical column? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | Correct  pd.get\_dummies(df['column']) | | Answers: | Correct  pd.get\_dummies(df['column']) | |  | df['column'].dummies() | |  | df['column'].one\_hot\_encode() | |  | df['column'].indicator\_variables() | |  |  |  |

* **Question 7**

1 out of 1 points

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|  | How do you read a CSV file into a DataFrame without a header row? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | Correct  pd.read\_csv(file, header=None) | | Answers: | Correct  pd.read\_csv(file, header=None) | |  | pd.read\_csv(file, names=column\_names) | |  | pd.read\_csv(file, skiprows=0) | |  | pd.read\_csv(file, no\_header=True) | |  |  |  |

* **Question 8**

1 out of 1 points

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|  | How do you skip the first and last rows when reading a CSV file? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | Correct  pd.read\_csv('file.csv', skiprows=1, skipfooter=1, engine='python') | | Answers: | pd.read\_csv(file, skiprows=[0, -1]) | |  | pd.read\_csv(file, skip\_first\_row=True, skip\_last\_row=True) | |  | Correct  pd.read\_csv('file.csv', skiprows=1, skipfooter=1, engine='python') | |  | pd.read\_csv(file, skiprows=lambda x: x==0 or x==len(x)-1) | |  |  |  |

* **Question 9**

1 out of 1 points

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|  | Which method is used to randomly permute the rows of a DataFrame? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | Correct  df.sample(frac=1).reset\_index(drop=True) | | Answers: | df.shuffle() | |  | df.permute() | |  | Correct  df.sample(frac=1).reset\_index(drop=True) | |  | df.iloc[np.random.permutation(len(df))] | |  |  |  |

* **Question 10**

1 out of 1 points

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|  | How do you write only a subset of columns from a DataFrame to a CSV file? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | Correct  Both A and B are correct. | | Answers: | df[columns].to\_csv(file\_path) | |  | df.to\_csv(file\_path, columns=columns) | |  | df.subset(columns).to\_csv(file\_path) | |  | Correct  Both A and B are correct. | |  |  |  |

Thursday, October 30, 2025 8:11:07 PM SGT