edX

Course > Week 8... > Quiz: ... > Week 8...

Week 8 Quiz
Multiple Choice

1/1 point (graded)
What is the primary data structure for a relational data model?

- ⦿ Table
- ◯ List
- ◯ Vector
- ◯ 3-D data frame

✔

Answer
Correct: Video: "Relational Data Model"

Submit

True or False

1/1 point (graded)

A table with a primary key logically implies that the table cannot have a duplicate record.

◉ True

○ False

✔

Answer
Correct: Video: "Relational Data Model"

Submit

Checkboxes

1/1 point (graded)

What happens when you join two tables in pandas using natural join? Select all that applies.

☑ The common column is represented once.

☑ The common row is represented once.

☐ The common column is represented twice.

☐ The common row is represented twice.

✔

Answer
Correct:
Video: "Relational Data Model"
Video: "Relational Data Model"
Video: "Relational Data Model"
Video: "Relational Data Model"

Submit

True or False

1/1 point (graded)

The join operation works efficiently for data of all sizes.
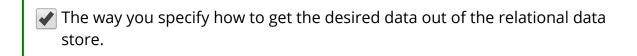
○ True

● False

✔

Answer
Correct: Video: "Relational Data Model"

Submit

Checkboxes

1/1 point (graded)

What are the two components of data retrieval mentioned in this class?

☑ The way you specify how to get the desired data out of the relational data store.

☑ The internal processing that occurs within the data management system to compute or evaluate that specified retrieval request.

☐ The way you store specific data in a data management system.

☐ How to handle the data once it has been retrieved.

✔

Answer
Correct:
Video: "Structured Query Language"
Video: "Structured Query Language"
Video: "Structured Query Language"
Video: "Structured Query Language"

Submit

Multiple Choice

1/1 point (graded)
Given the following "Select-From-Where" clauses for structured query language, which statement most likely poses the appropriate question?

```
SELECT name FROM san_diego_elementary WHERE grade > 70
```

- ⦿ Which students at San Diego Elementary scored higher than 70%?

- ◯ At which elementary schools have students scored higher than 70%?

- ◯ Of all the elementary students in san diego that have an average grade of >70%, how many students are from San Diego Elementary?
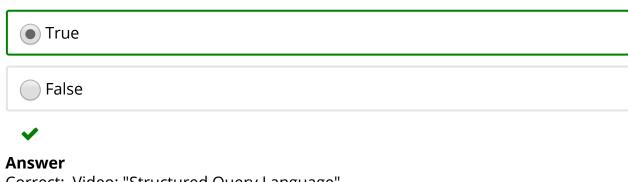
✔

Answer
Correct: Video: "Structured Query Language"

Submit

True or False

1/1 point (graded)

SQL for structured relational data can provide more operations than pandas data frames.

◉ True

◯ False

✔

Answer
Correct: Video: "Structured Query Language"

Submit

Multiple Choice

1/1 point (graded)
What is the output of the execute method in sqlite?

◉ an iterator

◯ a cursor

◯ a table

✔

Answer
Correct: Video: "Structured Query Language"

Submit

True or False

1/1 point (graded)
Assert statements help locate bugs.

◉ True

◯ False

✔

Answer
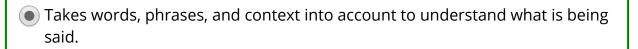Correct: Video: "Structured Query Language"

Submit

Multiple Choice

1/1 point (graded)
Automatic translators are a natural language processing (NLP) technique. How do they work?

◯ Learn what and how a human talks over time.

◉ Takes words, phrases, and context into account to understand what is being said.

◯ Process questions, categorize them, and match them to existing answers.

✔

Answer
Correct: Video: "NLTK"

Submit

Multiple Choice

1/1 point (graded)
What is the definition of corpus?

- ⦿ a collection of text in digital form

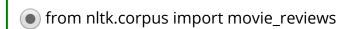- ◯ a download interface to pre-processed text datasets

✔

Answer
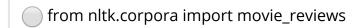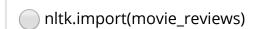Correct: Video: "NLTK Corpora"

Submit

Multiple Choice
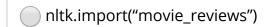
1/1 point (graded)
After running nltk.download("movie_reviews"), which of the following needs to be called to import movie_reviews?

- ⦿ from nltk.corpus import movie_reviews

- ◯ from nltk.corpora import movie_reviews

- ◯ nltk.import(movie_reviews)

- ◯ nltk.import("movie_reviews")

✔

Answer
Correct: Video: "NLTK Corpora"

Submit

Multiple Choice

1/1 point (graded)

What is the correct way to show the last 2 files using movie_reviews.fileids() where movie_reviews is a downloaded dataset?

- ○ movie_reviews.fileids()[:-2]

- ◉ movie_reviews.fileids()[-2:]

- ○ movie_reviews.fileids([:-2])

- ○ movie_reviews.fileids([-2:])

✔

Answer
Correct: Video: "NLTK Corpora"

Submit

True or False

1/1 point (graded)

The raw method is unique to movie_reviews, a downloaded dataset.

- ○ True

- ◉ False

✔

Answer
Correct: Video: "NLTK Corpora"

Submit

Checkboxes

1/1 point (graded)

Which of the following are frequent corner cases in tokenization?

☑ inconsistent use of punctuation

☑ shortened use of words

☑ hyphenated words

☐ multiple spaces between words

✔

Answer
Correct:
Video: "Tokenize"
Video: "Tokenize"
Video: "Tokenize"
Video: "Tokenize"

Submit

Multiple Choice

1/1 point (graded)

Assume the code line "text = New York-based" is run, what would be the output of text.split()?

◯ ['New',' ','York-based']

○ ['New','York', '-', 'based']

○ ['New','York','based']

⦿ ['New','York-based']

✔

Answer
Correct: Video: "Tokenize"

Submit

Multiple Choice

1/1 point (graded)
What is the name of a sophisticated word tokenizer trained on English in nltk?

○ punkd

○ punked

⦿ punkt

○ punnet

✔

Answer
Correct: Video: "Tokenize"

Submit

True or False

1/1 point (graded)

The bag-of-words model tracks if a word appears to identify the sentiment or overall idea.

- ⦿ True
- ◯ False

✔

Answer
Correct: Video: "Build a Bag-of-Words Model"

Submit

Checkboxes

1/1 point (graded)

Which of the following are examples of stop words in English?

- ☐ stop
- ☑ doing
- ☑ those
- ☑ being
- ☑ myself
- ☐ word

✔

Answer
Correct:
Video: "Build a Bag-of-Words Model"
Video: "Build a Bag-of-Words Model"
Video: "Build a Bag-of-Words Model"
Video: "Build a Bag-of-Words Model"

Submit

True or False

1/1 point (graded)
In assigning true or false values in a bag-of-words model, a missing word is equivalent to assigning a false value.

(●) True

(○) False

✔

Answer
Correct: Video: "Build a Bag-of-Words Model"

Submit

Multiple Choice

1/1 point (graded)
What will type(_) return?

(●) type of output from previous line

○ type that represents the underscore symbol

○ prompt to fill in the blank for type of output

○ error because there is no object to return the type

✔

Answer
Correct: Video: "Build a Bag-of-Words Model"

Submit

Multiple Choice

1/1 point (graded)
Given the python function from the video:

```
def build_bag_of_words_features(words):
    return {word:True for word in words}
```

What is the parameter type and return type?

○ dictionary and boolean value

○ set of words and boolean value

○ dictionary and set of words

○ dictionary and boolean value

● set of words and dictionary

✔

Answer
Correct: Video: "Build a Bag-of-Words Model"

Submit

True or False

1/1 point (graded)
Using the string library, the code "string.punctuation" returns a list of punctuation characters.

- ⚪ True

- 🔘 False

✔

Answer
Correct: Video: "Build a Bag-of-Words Model"

Submit

True or False

1/1 point (graded)
The nltk corpus only supports English stopwords.

- ⚪ True

- 🔘 False

✔

Answer
Correct: Video: "Build a Bag-of-Words Model"

Submit

True or False

1/1 point (graded)
We can use '1' and 'True' interchangeably.

🔘 True

⚪ False

✔

Answer
Correct: Video: "Build a Bag-of-Words Model"

Submit

Multiple Choice

1/1 point (graded)
When plotting word frequency, what does a peak distribution most often entail about the vocabulary?

⚪ There are many unique words

⚪ There is a large vocabulary

🔘 There is a focused topic

✔

Answer
Correct: Video: "Plotting Frequency of Words"

Submit

Multiple Choice

1/1 point (graded)
What would 18490/1e3 (thousands format) result?

◉ 18.49

○ 18490000

○ 1.8490

○ 18490.000

✔

Submit

Multiple Choice

1/1 point (graded)
Given a list named x, what is the object type of the output returned by Counter(x)?

○ no return type

○ dataset

○ list

○ counter

✔

Answer
Correct: Video: "Plotting Frequency of Words"

Submit

Multiple Choice

1/1 point (graded)
What does the most_common function of Counter return?

◉ a list of words in the form ('word', frequency)

○ a list of words in the form ('word')

○ a list of words in the form (frequency, 'word')

○ a list of words in the form (frequency)

✔

Answer
Correct: Video: "Plotting Frequency of Words"

Submit

True or False

1/1 point (graded)

In the matplotlih.pyplot function hist, the bins parameter indicates to plot only elements in a list which has a number equal to bins.

○ True

◉ False

✔

Answer
Correct: Video: "Plotting Frequency of Words"

Submit

Multiple Choice

1/1 point (graded)
What is the benefit of a log graph over a graph that has not modified the scales?

○ There is no outright advantage to converting a graph into a log scale.

○ Log scales are significantly better in representing every type of data compared to unmodified scale graphs.

◉ Log scales allow a large range of values that are compressed into one point of the graph to be shown.

✔

Answer
Correct: Video: "Plotting Frequency of Words"

Submit

Multiple Choice

1/1 point (graded)

Where did we import NaiveBayesClassifier from in our movie review NLP notebook?

○ sklearn

○ sklearn.naive_bayes

○ nltk.corpus

◉ nltk.classify

✔

Answer
Correct: Video: "Sentiment Analysis"

Submit

True or False

1/1 point (graded)

The accuracy of test data will be high if one data from a large data set was used in the training set.

○ True

◉ False

✔

Answer
Correct: Video: "Sentiment Analysis"

Submit

Checkboxes

1 point possible (graded)
What does the Twitter API allow access to?

- [ ] users

- [ ] location

- [ ] interactions

- [ ] personal information

Submit

Checkboxes

1 point possible (graded)
In accessing a client using OAuth 1.0A, what are the four required identifiers to establish access to the resources?

- [ ] consumer key

- [ ] consumer secret

- [ ] access token

- [ ] access token key

☐ access token secret

Submit

True or False

1 point possible (graded)
A pickle file is a python utility module that uses serialization and cannot be deserialized in a different notebook.

◯ True

◯ False

Submit

Multiple Choice

1/1 point (graded)
In the twitter package in python, what does the OAuth function return?

◯ list of necessary authentication

◉ authentication object

◯ twitter API

⊙ there is no return value

✓

Answer
Correct: Video: "Authenticate with the Twitter API in Python"

Submit

True or False

1/1 point (graded)
Only authentication needs to be used to create a Twitter API object in python.

◉ True

⊙ False

✓

Answer
Correct: Video: "Authenticate with the Twitter API in Python"

Submit

Multiple Choice

1/1 point (graded)
How does twitter identify location?

⊙ city, state, and country

⊙ longitude and latitude

○ coordinates

⦿ integer number

✔

Answer
Correct: Video: "Authenticate with the Twitter API in Python"

Submit

True or False

1/1 point (graded)
JSON is a data format used to communicate semi-structured information.

⦿ True

○ False

✔

Answer
Correct: Video: "Authenticate with the Twitter API in Python"

Submit

Multiple Choice

1/1 point (graded)
Given:

```
twitter_api = twitter.Twitter(auth=auth)
WOE = 1
```

What is the correct code to find the trend?

○ twitter_api.trends.place(id = WOE)

○ twitter_api.trends.place(1)

○ twitter_api.trends.place(WOE)

◉ twitter_api.trends.place(_id = WOE)

✔

Answer
Correct: Video: "Authenticate with the Twitter API in Python"

Submit

Multiple Choice

1/1 point (graded)
What is the reason to prefix id with an underscore for query string parameterization
with the twitter object?

○ there is no need in the function, it is there to make it easier on the reader

○ it is needed because it is part of the parameter name

○ it is needed for the twitter object to know the type of output from previous
line

◉ without it, twitter package appends the value to the URL

✔

Answer
Correct: Video: "Authenticate with the Twitter API in Python"

Submit

Checkboxes

1/1 point (graded)
Which two code outputs are equivalent?

- ☑ print('#'*5)

- ☐ print ('#*5')

- ☑ print('#####')

- ☐ print('#*'5)

✔

Answer
Correct:
Video: "Authenticate with the Twitter API in Python"
Video: "Authenticate with the Twitter API in Python"
Video: "Authenticate with the Twitter API in Python"
Video: "Authenticate with the Twitter API in Python"

Submit

Multiple Choice

1/1 point (graded)
What type object is the intersection function called on?

- ⦿ set

○ twitter api

○ authentication

○ list

✔

Answer
Correct: Video: "Authenticate with the Twitter API in Python"

Submit

True or False

1/1 point (graded)
Information from a tweet is only the data given by the 140 character string.

○ True

◉ False

✔

Answer
Correct: Video: "Explore Twitter Search"

Submit

Multiple Choice

1/1 point (graded)

Which of the following code snippets is a conditional statement?

○ for s in statuses:

● if not s["text"] in all_text:

○ [s['text'] for s in search_results['statuses']

○ statuses = filtered_statuses

✔

Answer
Correct: Video: "Explore Twitter Search"

[Submit]

Multiple Choice

1/1 point (graded)
What is the correct way to use json to show the first three statuses in a list named statuses?

○ print(json.dumps(statuses[4], indent = 1))

○ print(json.dumps(statuses[3], indent = 1))

○ print(json.dumps(statuses[1:4], indent = 1))
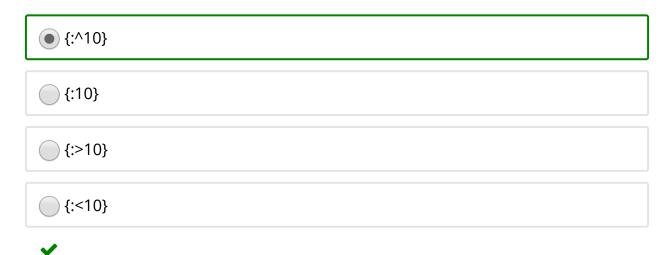
● print(json.dumps(statuses[0:3], indent = 1))

✔

Answer
Correct: Video: "Explore Twitter Search"

Submit

Multiple Choice

1/1 point (graded)
Which of the following string formatting centers a string to be in the middle of 10 spaces?

- ⦿ {:^10}

- ◯ {:10}

- ◯ {:>10}

- ◯ {:<10}

✔

Answer
Correct: Video: "Create Frequency Distributions"

Submit

True or False

1/1 point (graded)
The strings "ABC" and "abc" will be counted as the same string using Counter.

- ◯ True

- ⦿ False

✔

Answer
Correct: Video: "Create Frequency Distributions"

Submit