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buckets / bucket_collection_test.py

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trodicaro Edits for running the original data provided instead of my testing sa...

99770dc on Mar 9, 2018

1 contributor
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Raw
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               History
135 lines (110 sloc)
                      6.44 KB
      import unittest
      import os.path
      import json
      import random
      from bucket_collection import Bucket
  6
      from bucket_collection import BucketCollection
  8
      # class BucketTest(unittest.TestCase):
  9
            def test_init_creates_bucket_object(self):
 10
            def test_init_assigns_key(self):
                pass
      class BucketCollectionTest(unittest.TestCase):
          @classmethod
 16
          def setUpClass(cls):
              cls.results_file = "results.json"
 18
              # cls.results_file = "min_results.json"
 19
              cls.results_filepath = os.path.join(os.path.dirname(__file__), cls.results_file)
              bucket_collection = BucketCollection("purchase_buckets.csv", "purchase_data.csv")
              # bucket_collection = BucketCollection("min_buckets.csv", "min_purchases.csv")
              bucket_collection.to_file(cls.results_file)
 24
              with open(cls.results_file) as file:
                  results_json = json.loads(file.read())
              cls.data_dictionary = {}
              for item in results_json:
                  if item['bucket'] in cls.data_dictionary:
                      cls.data_dictionary[item['bucket'] + '-dup'] = item['purchases']
                  else:
                      cls.data_dictionary[item['bucket']] = item['purchases']
          # @classmethod
          # def tearDownClass(cls):
 36
                print("Calling tearDown")
                os.remove(cls.results_file)
          def test_results_file_creation(self):
              "Tests that a result file is generated"
              self.assertTrue(os.path.isfile(self.results_file))
          def test_results_json_has_content(self):
              # alternate implementation: when loading JSON from file, instead of fail, show error
 45
              # bucket_collection = BucketCollection("purchase_buckets.csv", "purchase_data.csv")
              # https://codeblogmoney.com/validate-json-using-python/
              # https://stackoverflow.com/questions/23344948/python-validate-and-format-json-files
              self.assertTrue(len(self.data_dictionary) > 0)
          def test_generic_bucket_existence(self):
              "Test that generic bucket was created"
```

```
self.assertIn("*,*,*", self.data_dictionary.keys())
         def test_buckets_generate_in_desired_order(self):
             # check *, *, * is first key
             keys_iterator = iter(self.data_dictionary.keys())
             self.assertTrue(next(keys_iterator) == "*, *, *")
             # check first bucket in file provided is next key
             self.assertTrue(next(keys_iterator) == "McGraw-Hill,5,40_day")
         def test_a_purchase_is_found_only_once(self):
             test_purchases = [
                 '98765,0862728122370,OPENSTAX,CLT,5,150_day,2017-05-31 14:21:29.560404',
                 '98771,1899596499745,PEARSON,MIA,3,110_day,2017-05-23 09:16:43.560846',
                 '99377,8660464769977,PEARSON,JFK,2,40_day,2017-02-10 15:04:03.578055',
                 '98795,9277080469051,MCGRAW-HILL,MSP,6,120_day,2017-04-02 11:05:31.561470',
                 '98775,7192583653601,SCIPUB,BOS,8,140_day,2017-08-03 14:02:28.560950',
                 '98835,6544295182149,MACMILLAN,CLE,4,40_day,2017-01-10 14:08:55.562501',
                 '99680,8193774926972,PEARSON,SNA,7,10_day,2017-07-10 07:07:11.587228',
                 '98819,9793386372887,PENGUIN RANDOMHOUSE,DTW,3,90_day,2017-07-14 14:06:01.562089',
                 '99999,99999999999, MACMILLAN, MIA, 3, 110_day, 2017-05-23 09:16:43.560846',
                 '98815,8022139588957,ENGLISH PUBLICATIONS,DTW,10,120_day,2017-08-09 12:42:30.561986',
                 '98793,3455843886681,ENGLISH PUBLICATIONS,MCO,4,60_day,2017-05-16 08:51:17.561418',
                 '99191,7848537371773,PENGUIN RANDOMHOUSE,MIA,4,30_day,2017-05-21 10:01:19.571428']
             test_purchase = random.choice(test_purchases)
             all_purchases = self.data_dictionary.values()
78
             self.assertFalse(test_purchase in all_purchases)
         def test_purchases_ordered_by_order_id(self):
             random_bucket_key, bucket_purchases = random.choice(list(self.data_dictionary.items()))
             ids = list(map(lambda purchase: int(purchase.split(',')[0]), bucket_purchases))
             self.assertTrue(sorted(ids) == ids)
         def test_publisher_price_duration_bucket(self):
             "Most specific"
             test_string = "99145,0926889346680,MCGRAW-HILL,PHX,6,30_day,2017-08-31 12:52:41.570232"
             self.assertIn(test_string, self.data_dictionary["McGraw-Hill,6,30_day"])
         def test_publisher_duration_bucket(self):
             test_string = "98835,6544295182149,MACMILLAN,CLE,4,40_day,2017-01-10 14:08:55.562501"
             self.assertIn(test_string, self.data_dictionary["Macmillan, *, 40_day"])
         def test_publisher_price_bucket(self):
             test_string = "98795,9277080469051,MCGRAW-HILL,MSP,6,120_day,2017-04-02 11:05:31.561470"
             self.assertIn(test_string, self.data_dictionary["McGraw-Hill,6,*"])
         def test_price_duration_bucket(self):
             test_string = "98819,9793386372887,PENGUIN RANDOMHOUSE,DTW,3,90_day,2017-07-14 14:06:01.562089"
             self.assertIn(test_string, self.data_dictionary["*,3,90_day"])
         def test_publisher_only_bucket(self):
             test_string = "98771,1899596499745,PEARSON,MIA,3,110_day,2017-05-23 09:16:43.560846"
             self.assertIn(test_string, self.data_dictionary["Pearson, *, *"])
         def test_publisher_only_bucket_with_upper_lower_letters(self):
             test_string = "98775,7192583653601,SCIPUB,BOS,8,140_day,2017-08-03 14:02:28.560950"
             self.assertIn(test_string, self.data_dictionary["SciPub, *, *"])
         def test_publisher_only_bucket_with_dash(self):
             test_string = "98795,9277080469051,MCGRAW-HILL,MSP,6,120_day,2017-04-02 11:05:31.561470"
             self.assertIn(test_string, self.data_dictionary["McGraw-Hill,6,*"])
         def test_publisher_only_bucket_with_space(self):
             test_string = "99191,7848537371773,PENGUIN RANDOMHOUSE,MIA,4,30_day,2017-05-21 10:01:19.571428"
             self.assertIn(test_string, self.data_dictionary["Penguin Randomhouse,*,30_day"])
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buckets/bucket_collection_test.py at master · trodicaro/buckets

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118
          # def test_duration_only_bucket(self):
119
               test_string = "99999,9999999999999,MACMILLAN,MIA,3,110_day,2017-05-23 09:16:43.560846"
                self.assertIn(test_string, self.data_dictionary["*, *, 110_day"])
          def test_price_only_bucket(self):
              test_string = "98815,8022139588957,ENGLISH PUBLICATIONS,DTW,10,120_day,2017-08-09 12:42:30.561986"
124
              self.assertIn(test_string, self.data_dictionary["*,10,*"])
126
          def test_catch_all_bucket(self):
              test_string = "98765,0862728122370,0PENSTAX,CLT,5,150_day,2017-05-31 14:21:29.560404"
              {\tt self.assertIn(test\_string, self.data\_dictionary["*,*,*"])}
128
129
          def test_edge_case_repeated_bucket(self):
130
              self.assertFalse(self.data_dictionary["SciPub, *, *-dup"])
     if __name__ == "__main__":
134
          unittest.main()
```