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buckets / bucket_collection.py

```
trodicaro Finish test of dup keys to be empty
aadfbd5 on Mar 9, 2018

1 contributor
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Raw
       Blame
               History
80 lines (63 sloc) 3.14 KB
     import csv
     import json
     import inspect
     from random import randint
 6
     class Bucket:
         # https://pythonconquerstheuniverse.wordpress.com/2012/02/15/mutable-default-arguments/
 8
         def __init__(self, case_preserving_key = ""):
 9
             self.case_preserving_key = case_preserving_key
10
             self.purchases = []
     class BucketCollection:
         def __init__(self, buckets_file_name, purchases_file_name):
             self.buckets = {}
14
             self.buckets['*,*,*'] = Bucket('*,*,*')
             with open(buckets_file_name) as buckets_file:
19
                 readCSV = csv.reader(buckets_file)
                 for row in readCSV:
                     current_key = ",".join([row[0],row[1],row[2]])
                     if current_key.upper() in self.buckets:
24
                         current_key += '-dup' + randint(1, 9999).__str__()
                     bucket = Bucket(current_key)
                     # losing the original key here
                     self.buckets[current_key.upper()] = bucket
             self.populate_buckets(purchases_file_name)
30
         def to_json(self):
             results = []
             for key, bucket in self.buckets.items():
34
                   current_group = {}
                   json_key = bucket.case_preserving_key
                   if "-dup" in json_key:
38
                       json_key = json_key.split("-dup")[0]
                   current_group["bucket"] = json_key
                   current_group["purchases"] = bucket.purchases
40
41
                   results.append(current_group)
42
43
             return results
         def to_file(self, result_file_name):
45
46
           results_file = open(result_file_name, 'w')
47
           results_file.write(json.dumps(self.to_json(), indent = 4, sort_keys = True))
           results_file.close()
48
49
         def populate_buckets(self, purchases_file_name):
```

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with open(purchases_file_name) as purchases_file:
53
                 readCSV = csv.reader(purchases_file)
54
                 for row in readCSV:
                     order_id = row[0]
                     publisher = row[2]
58
                     price = row[4]
                     duration = row[5]
60
                     key = ",".join([publisher, price, duration])
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                     complete_key = ",".join([publisher, price, duration]).upper()
                     publisher_duration_key = ",".join([publisher, "*", duration]).upper()
                     publisher_price_key = ",".join([publisher, price, "*"]).upper()
65
                     price_duration_key = ",".join(["*", price, duration]).upper()
                     publisher_only = ",".join([publisher, "*", "*"]).upper()
66
67
                     duration_only_key = ",".join(["*", "*", duration]).upper()
                     price_only_key = ",".join(["*", price, "*"]).upper()
                     catch_all_key = ",".join(["*","*","*"]).upper()
                     possible_keys = [complete_key, publisher_duration_key, publisher_price_key, price_duration_key, publisher_
                     for possible_key in possible_keys:
74
                         #I don't think following line is efficient; alternatives?
                         if possible_key in self.buckets.keys():
                             stringified_record = ",".join(map(str, row))
                             {\tt self.buckets[possible\_key].purchases.append(stringified\_record)}
78
                             break
79
```