

```
[53] # What keys are present?
    taco_shops.keys()
    ## U6 part 1 Your code ends here - Any code outside of these start/end markers won't be graded
   dict_keys(['businesses', 'total', 'region'])
  Now use the json_normalize function to flatten taco_shops. Note that you need to select the key that contains the businesses when flattening. But this one is easier than the examples from the homework in that you don't need to provide any other arguments.
  Store the result as taco_shops_df
  ## Q6 part 2 Your code starts here
# Flatten to taco_shops_df
                 import pandas as pd
from pandas import json_normalize
                taco_shops_df = json_normalize(taco_shops['businesses'])
taco_shops_df.head() # Check
                                                                                                                                                                                                                    image url is closed
                                                                                                                                                                                                                                                                                                                                                  url review_count categories rating transactions ... coordinates.latitude coordinates.lo
                 0 o3woQWQ-0HxFftttEeNdw rustico Rustico media1.ft.yelpcdn.com/bphoto/r0/Qjo...
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                  taco-
1 nvwtUKh6rBb29rFbC9kq5w rico-
tucson-2 loo media3.fl.yelpcdn.com/bphoto/f9mKwX...
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                32.222001
 [54] 5 rows × 24 columns
   ∓₹
[55] # Select only necessary columns
taco_shops_df = taco_shops_df[['id', 'alias', 'name', 'review_count', 'rating']]
taco_shops_df.shape # Check shape. Is it 20 x 57
## Q6 part 2 Your code ends here - Any code outside of these start/end markers won't be graded
 Q7 Getting reviews for the taco shops - [6 points]
  Now we're going to use the reviews_query() function to get the last three reviews for a given ID. The issue here is that you can only feed it
   one ID at a time. So, we'll have to write a loop that queries for each ID in taco_shops_df and builds out a dataframe of reviews.
  Task: Write a for loop that does the following steps:
          • First make an empty data frame outside of the loop called taco_shops_reviews_df

    Initalize your loop so that it runs the length of taco_shops_df you made earlier.
    For each i in loop, use the id from taco_shops_df to get reviews from yelp using the reviews_query() function in yelp_api and store

    Flatten reviews to an objected called reviews_df

    Add location_id to reviews_df - I gave you the code to do this :)

          \bullet \  \, \mathsf{Append} \  \, \mathsf{reviews\_df} \  \, \mathsf{to} \  \, \mathsf{taco\_shops\_reviews\_df} \  \, \mathsf{such} \  \, \mathsf{that} \  \, \mathsf{it} \  \, \mathsf{builds} \  \, \mathsf{out} \  \, \mathsf{that} \  \, \mathsf{dataframe} \  \, \mathsf{with} \  \, \mathsf{each} \  \, \mathsf{reviews\_df} \  \, \mathsf{dataframe} \  \, \mathsf{that's} \  \, \mathsf{that} \  \, \mathsf{dataframe} \  \, \mathsf{dataframe}
          • After the loop is done select only the columns 'id', 'text', 'rating', 'time_created', 'location_id'
                for i in range(len(taco_shops_gf)):
    shop_id = taco_shops_df.ilocii]'(id']
    reviews = yelp_spi.reviews_query(shop_id)
    reviews_df = pd.json_normalize(reviews, 'reviews')
    reviews_df = pd.json_normalize(reviews, 'reviews')
    reviews_df'('location_id') = taco_shops_df'['id'][i]
    taco_shops_reviews_df = pd.concat([taco_shops_reviews_df, reviews_df], ignore_index=True)
```

