

1) Python Code

```
import pandas as pd #import panda
import numpy as np
#all files are in the current working directory
from pandas import DataFrame
from pandas import Series

import json
#Load 100506.json into a dictionary of dictionaries
with open('100506.json') as input_file:
    jsondat=json.load(input_file)
    jsondat.keys()

#Parse data from 'Reviews' dictionary
reviews = []#create an empty reviews list
Reviews = jsondat["Reviews"]

for review in Reviews:
    review_dict = {}#create empty review_dict
    review_dict['Author'] = review['Author']
    review_dict['Date'] = review['Date']
    review_dict['Ratings'] = review['Ratings']
    reviews.append(review_dict)

len(reviews)#48 line entries

#import reviews list into a dataframe (Author, Date, Ratings)
df = pd.DataFrame(reviews)
df.shape#df has the right size (48 x 3)

#Parse comments from Reviews and add to new dataframe, comments
comments=[]
for review in Reviews:
    comment_dict = {}#create empty comment_dict
    comment_dict['Author'] = review['Author']
    comment_dict['Date'] = review['Date']
    comment_dict['Content'] = review['Content']
    comments.append(comment_dict)
len(comments)#48 line entries, two columns Author and Content
#import comments list into a dataframe
dfl = pd.DataFrame(comments)
dfl.shape#df has the right size (48 x 3)

#Archiving data: pickle and text files
#Pickle the dataframes created
import cPickle as pickle
pickle.dump(df,open('reviewslist.p', 'wb'))
pickle.dump(dfl,open('commentslist.p', 'wb'))
#Create csv file for dfl (comments)
dfl.to_csv("commentslist.csv")
```

Example output:

Reviews data frame (df)

```
In [874]: df.head()
```

```
Out[874]:
```

	Author	Date	Ratings
0	luvsroadtrips	January 3, 2012	{u'Service': u'1', u'Cleanliness': u'1', u'Ove...
1	estelle e	December 29, 2011	{u'Service': u'4', u'Cleanliness': u'4', u'Ove...
2	RobertEddy	December 20, 2011	{u'Service': u'1', u'Cleanliness': u'2', u'Ove...
3	James R	October 30, 2011	{u'Service': u'1', u'Cleanliness': u'1', u'Ove...
4	Shobha49	September 14, 2011	{u'Service': u'1', u'Overall': u'1.0', u'Locat...

Comments data frame (df1)

```
In [873]: df1.head()
```

```
Out[873]:
```

	Author	Content	Date
0	luvsroadtrips	This place is not even suitable for the homele...	January 3, 2012
1	estelle e	We stayed in downtown hotel Seattle for two ni...	December 29, 2011
2	RobertEddy	i made reservations and when i showed up, i qu...	December 20, 2011
3	James R	This hotel is so bad it's a joke. I could bare...	October 30, 2011
4	Shobha49	My husband and I stayed at this hotel from 16t...	September 14, 2011