3/12/23, 7:43 PM AK_clean

Metadata

Title: AK_clean

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Comments:

This is an attempt at cleaning the given data.

Set-up

```
In [1]: from pymongo import MongoClient
import numpy as np
import pandas as pd

In [2]: # URI is specific to Ami's login credentials
uri = "mongodb+srv://DS6013_Students_Ami:DS6013_Students_AK@countyrecords.4cdfg
# connect to database
client = MongoClient(uri)
database = client['TaxRecords']

In [3]: database.list_collection_names()

Out[3]: record_1867 = pd.DataFrame(list(database['Tax_Record_1867'].find()))
record 1782 = pd.DataFrame(list(database['Tax_Record_1782'].find()))
```

Cleaning/Preparing Data

3/12/23, 7:43 PM AK_clean

```
In [6]: record_1782 = record_1782.drop(['_id', 'PersonCountTaxableTithes',
                'PersonCountTaxableEnslavedPersons', 'PersonTaxCountHorsesMules',
                'PersonTaxCountCattle', 'EventArchiveLink',
                'PersonTaxCommissionerRemarks'], axis=1)
 In [7]:
         # lowercase text
         for text_col in list(record_1867.select_dtypes(include=['object']).columns):
             record_1867[text_col] = record_1867[text_col].str.lower()
         for text_col in list(record_1782.select_dtypes(include=['object']).columns):
             record_1782[text_col] = record_1782[text_col].str.lower()
 In [8]: # replace NaN with empty string
         record_1867 = record_1867.fillna('')
         record 1782 = record 1782.fillna('')
 In [9]:
         # make `EventTitle` the index
         record_1867['EventTitle'] = "1867 "+record_1867['EventTitle'].astype(str)
         record_1867 = record_1867.set_index('EventTitle')
         record_1782 = record_1782.set_index('EventTitle')
In [10]: record 1867.head()
```

3/12/23, 7:43 PM AK_clean

Out [10]: SourceSteward SourceLocCity SourceLocState SourceTitle SourceType SourceDate

EventTitle						
1867 personal property tax recorded	library of virginia	richmond	virginia	county personal property taxes	government record	
1867 personal property tax recorded	library of virginia	richmond	virginia	county personal property taxes	government record	
1867 personal property tax recorded	library of virginia	richmond	virginia	county personal property taxes	government record	
1867 personal property tax recorded	library of virginia	richmond	virginia	county personal property taxes	government record	
1867 personal property tax recorded	library of virginia	richmond	virginia	county personal property taxes	government record	

In [11]: record_1782.head()

3/12/23, 7:43 PM AK_clean

Out[11]:

SourceSteward SourceLocCity SourceLocState SourceTitle SourceType SourceDate EventTitle caleb

Eventiitie						
caleb stone personal property tax recorded	fluvanna county historical society	palmyra	virginia	county personal property taxes	government record	
william bernard personal property tax recorded	fluvanna county historical society	palmyra	virginia	county personal property taxes	government record	
caleb stone personal property tax recorded	fluvanna county historical society	palmyra	virginia	county personal property taxes	government record	
john ashlin personal property tax recorded	fluvanna county historical society	palmyra	virginia	county personal property taxes	government record	
john ashlin personal property tax recorded	fluvanna county historical society	palmyra	virginia	county personal property taxes	government record	