ETL_Mini_Project_JNguyen

December 20, 2023

```python
[1]: # Import dependencies
import pandas as pd
import numpy as np
pd.set_option('max_colwidth', 400)
```

0.0.1 Extract the crowdfunding.xlsx Data

```python
[2]: # Read the data into a Pandas DataFrame
crowdfunding_info_df = pd.read_excel('Resources/crowdfunding.xlsx')
crowdfunding_info_df.head()
```

```
[2]:    cf_id  contact_id                company_name  \
    0    147        4661   Baldwin, Riley and Jackson
    1   1621        3765                    Odom Inc
    2   1812        4187    Melton, Robinson and Fritz
    3   2156        4941  Mcdonald, Gonzalez and Ross
    4   1365        2199                Larson-Little

                                          blurb    goal  pledged     outcome  \
    0          Pre-emptive tertiary standardization     100        0      failed
    1              Managed bottom-line architecture    1400    14560  successful
    2  Function-based leadingedge pricing structure  108400   142523  successful
    3  Vision-oriented fresh-thinking conglomeration    4200     2477      failed
    4                     Proactive foreground core    7600     5265      failed

       backers_count country currency  launched_at    deadline  staff_pick  \
    0              0      CA      CAD   1581573600  1614578400       False
    1            158      US      USD   1611554400  1621918800       False
    2           1425      AU      AUD   1608184800  1640844000       False
    3             24      US      USD   1634792400  1642399200       False
    4             53      US      USD   1608530400  1629694800       False

       spotlight category & sub-category
    0      False        food/food trucks
    1       True              music/rock
    2      False          technology/web
    3      False              music/rock
    4      False           theater/plays
```

1

```
[3]: # Get a brief summary of the crowdfunding_info DataFrame.
     crowdfunding_info_df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1000 entries, 0 to 999
Data columns (total 15 columns):
 #   Column                 Non-Null Count  Dtype
---  ------                 --------------  -----
 0   cf_id                  1000 non-null   int64
 1   contact_id             1000 non-null   int64
 2   company_name           1000 non-null   object
 3   blurb                  1000 non-null   object
 4   goal                   1000 non-null   int64
 5   pledged                1000 non-null   int64
 6   outcome                1000 non-null   object
 7   backers_count          1000 non-null   int64
 8   country                1000 non-null   object
 9   currency               1000 non-null   object
 10  launched_at            1000 non-null   int64
 11  deadline               1000 non-null   int64
 12  staff_pick             1000 non-null   bool
 13  spotlight              1000 non-null   bool
 14  category & sub-category  1000 non-null  object
dtypes: bool(2), int64(7), object(6)
memory usage: 103.6+ KB
```

0.1 ### Create the Category and Subcategory DataFrames

Create a Category DataFrame that has the following columns: - A "category_id" column that is numbered sequential form 1 to the length of the number of unique categories. - A "category" column that has only the categories.

Export the DataFrame as a `category.csv` CSV file.

Create a SubCategory DataFrame that has the following columns: - A "subcategory_id" column that is numbered sequential form 1 to the length of the number of unique subcategories. - A "subcategory" column that has only the subcategories.

Export the DataFrame as a `subcategory.csv` CSV file.

```
[4]: # Get the crowdfunding_info_df columns.
     crowdfunding_info_df.columns
```

```
[4]: Index(['cf_id', 'contact_id', 'company_name', 'blurb', 'goal', 'pledged',
            'outcome', 'backers_count', 'country', 'currency', 'launched_at',
            'deadline', 'staff_pick', 'spotlight', 'category & sub-category'],
           dtype='object')
```

```
[5]: # Assign the category and subcategory values to category and subcategory columns.
     crowdfunding_info_df[['category', 'subcategory']] =␣
      ↪crowdfunding_info_df['category & sub-category'].str.split('/', expand=True)
     crowdfunding_info_df.head(10)
```

```
[5]:    cf_id  contact_id                 company_name  \
     0    147        4661    Baldwin, Riley and Jackson
     1   1621        3765                      Odom Inc
     2   1812        4187    Melton, Robinson and Fritz
     3   2156        4941    Mcdonald, Gonzalez and Ross
     4   1365        2199                   Larson-Little
     5   2057        5650                    Harris Group
     6   1894        5889    Ortiz, Coleman and Mitchell
     7   2669        4842                   Carter-Guzman
     8   1114        3280                 Nunez-Richards
     9    970        5468        Rangel, Holt and Jones


                                             blurb    goal  pledged      outcome  \
     0            Pre-emptive tertiary standardization     100        0       failed
     1               Managed bottom-line architecture    1400    14560   successful
     2    Function-based leadingedge pricing structure  108400   142523   successful
     3    Vision-oriented fresh-thinking conglomeration    4200     2477       failed
     4                      Proactive foreground core    7600     5265       failed
     5               Open-source optimizing database    7600    13195   successful
     6            Operative upward-trending algorithm    5200     1090       failed
     7                 Centralized cohesive challenge    4500    14741   successful
     8        Exclusive attitude-oriented intranet  110100    21946         live
     9                 Open-source fresh-thinking model    6200     3208       failed


        backers_count country currency  launched_at     deadline  staff_pick  \
     0              0      CA      CAD   1581573600   1614578400       False
     1            158      US      USD   1611554400   1621918800       False
     2           1425      AU      AUD   1608184800   1640844000       False
     3             24      US      USD   1634792400   1642399200       False
     4             53      US      USD   1608530400   1629694800       False
     5            174      DK      DKK   1607666400   1630213200       False
     6             18      GB      GBP   1596171600   1620709200       False
     7            227      DK      DKK   1608616800   1632200400       False
     8            708      DK      DKK   1586322000   1615356000       False
     9             44      US      USD   1628830800   1630386000       False


        spotlight   category & sub-category     category      subcategory
     0      False             food/food trucks          food      food trucks
     1       True                   music/rock         music             rock
     2      False               technology/web    technology              web
     3      False                   music/rock         music             rock
     4      False                theater/plays       theater            plays
```

```
5       False                    theater/plays        theater          plays
6       False    film & video/documentary  film & video      documentary
7       False                    theater/plays        theater          plays
8       False                    theater/plays        theater          plays
9       False          music/electric music           music    electric music
```

[6]: ```python
# Get the unique categories and subcategories in separate lists.
categories = crowdfunding_info_df['category'].unique()
subcategories = crowdfunding_info_df['subcategory'].unique()

print(categories)
print(subcategories)
```

```
['food' 'music' 'technology' 'theater' 'film & video' 'publishing' 'games'
 'photography' 'journalism']
['food trucks' 'rock' 'web' 'plays' 'documentary' 'electric music' 'drama'
 'indie rock' 'wearables' 'nonfiction' 'animation' 'video games' 'shorts'
 'fiction' 'photography books' 'radio & podcasts' 'metal' 'jazz'
 'translations' 'television' 'mobile games' 'world music'
 'science fiction' 'audio']
```

[7]: ```python
# Get the number of distinct values in the categories and subcategories lists.
print(len(categories))
print(len(subcategories))
```

```
9
24
```

[8]: ```python
# Create numpy arrays from 1-9 for the categories and 1-24 for the subcategories.
category_ids = np.arange(1, 10)
subcategory_ids = np.arange(1, 25)

print(category_ids)
print(subcategory_ids)
```

```
[1 2 3 4 5 6 7 8 9]
[ 1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24]
```

[9]: ```python
# Use a list comprehension to add "cat" to each category_id.
cat_ids = ['cat' + str(i) for i in category_ids]
# Use a list comprehension to add "subcat" to each subcategory_id.
scat_ids = ['subcat' + str(j) for j in subcategory_ids]

print(cat_ids)
print(scat_ids)
```

```
['cat1', 'cat2', 'cat3', 'cat4', 'cat5', 'cat6', 'cat7', 'cat8', 'cat9']
['subcat1', 'subcat2', 'subcat3', 'subcat4', 'subcat5', 'subcat6', 'subcat7',
 'subcat8', 'subcat9', 'subcat10', 'subcat11', 'subcat12', 'subcat13',
```

```
'subcat14', 'subcat15', 'subcat16', 'subcat17', 'subcat18', 'subcat19',
'subcat20', 'subcat21', 'subcat22', 'subcat23', 'subcat24']
```

[10]:
```python
# Create a category DataFrame with the category_id array as the category_id and␣
↪categories list as the category name.
category_df = pd.DataFrame({'category_id': cat_ids, 'category': categories})

# Create a category DataFrame with the subcategory_id array as the␣
↪subcategory_id and subcategories list as the subcategory name.
subcategory_df = pd.DataFrame({'subcategory_id': scat_ids, 'subcategory':␣
↪subcategories})
```

[11]:
```python
category_df
```

[11]:
```
  category_id       category
0        cat1           food
1        cat2          music
2        cat3     technology
3        cat4         theater
4        cat5   film & video
5        cat6     publishing
6        cat7          games
7        cat8    photography
8        cat9     journalism
```

[12]:
```python
subcategory_df
```

[12]:
```
   subcategory_id          subcategory
0        subcat1          food trucks
1        subcat2                 rock
2        subcat3                  web
3        subcat4                plays
4        subcat5          documentary
5        subcat6       electric music
6        subcat7                drama
7        subcat8           indie rock
8        subcat9            wearables
9       subcat10           nonfiction
10      subcat11            animation
11      subcat12          video games
12      subcat13               shorts
13      subcat14              fiction
14      subcat15    photography books
15      subcat16     radio & podcasts
16      subcat17                metal
17      subcat18                 jazz
18      subcat19         translations
19      subcat20           television
```

```
20       subcat21        mobile games
21       subcat22         world music
22       subcat23     science fiction
23       subcat24               audio
```

[13]:
```python
# Export categories_df and subcategories_df as CSV files.
category_df.to_csv("Resources/category.csv", index=False)


subcategory_df.to_csv("Resources/subcategory.csv", index=False)
```

0.2 ### Campaign DataFrame

Create a Campaign DataFrame that has the following columns: - The "cf_id" column. - The "contact_id" column. - The "company_name" column. - The "blurb" column is renamed as "description." - The "goal" column. - The "goal" column is converted to a `float` datatype. - The "pledged" column is converted to a `float` datatype. - The "backers_count" column. - The "country" column. - The "currency" column. - The "launched_at" column is renamed as "launch_date" and converted to a datetime format. - The "deadline" column is renamed as "end_date" and converted to a datetime format. - The "category_id" with the unique number matching the "category_id" from the category DataFrame. - The "subcategory_id" with the unique number matching the "subcategory_id" from the subcategory DataFrame. - And, create a column that contains the unique four-digit contact ID number from the `contact.xlsx` file.

Then export the DataFrame as a `campaign.csv` CSV file.

[14]:
```python
# Create a copy of the crowdfunding_info_df DataFrame name campaign_df.
campaign_df = crowdfunding_info_df.copy()
campaign_df.head()
```

[14]:
```
   cf_id  contact_id                    company_name  \
0    147        4661     Baldwin, Riley and Jackson
1   1621        3765                       Odom Inc
2   1812        4187     Melton, Robinson and Fritz
3   2156        4941   Mcdonald, Gonzalez and Ross
4   1365        2199                  Larson-Little

                                        blurb     goal  pledged      outcome  \
0            Pre-emptive tertiary standardization    100        0       failed
1                Managed bottom-line architecture   1400    14560   successful
2     Function-based leadingedge pricing structure 108400   142523   successful
3   Vision-oriented fresh-thinking conglomeration   4200     2477       failed
4                       Proactive foreground core   7600     5265       failed

   backers_count country currency  launched_at    deadline  staff_pick  \
0              0      CA      CAD   1581573600  1614578400       False
1            158      US      USD   1611554400  1621918800       False
2           1425      AU      AUD   1608184800  1640844000       False
3             24      US      USD   1634792400  1642399200       False
```

6

```
4                53      US     USD   1608530400  1629694800        False
```

```
   spotlight category & sub-category     category  subcategory
0    False            food/food trucks        food  food trucks
1     True                  music/rock       music         rock
2    False              technology/web  technology          web
3    False                  music/rock       music         rock
4    False               theater/plays     theater        plays
```

```python
[15]: # Rename the blurb, launched_at, and deadline columns.
      campaign_df = campaign_df.rename(columns={'blurb':'description','launched_at':
       →'launch_date','deadline':'end_date'})
      campaign_df.head(10)
```

```
[15]:   cf_id  contact_id                    company_name  \
     0    147        4661   Baldwin, Riley and Jackson
     1   1621        3765                     Odom Inc
     2   1812        4187   Melton, Robinson and Fritz
     3   2156        4941  Mcdonald, Gonzalez and Ross
     4   1365        2199                Larson-Little
     5   2057        5650                 Harris Group
     6   1894        5889  Ortiz, Coleman and Mitchell
     7   2669        4842                Carter-Guzman
     8   1114        3280               Nunez-Richards
     9    970        5468        Rangel, Holt and Jones
```

```
                                    description    goal  pledged      outcome  \
0           Pre-emptive tertiary standardization      100        0       failed
1              Managed bottom-line architecture     1400    14560   successful
2   Function-based leadingedge pricing structure   108400   142523   successful
3     Vision-oriented fresh-thinking conglomeration    4200     2477       failed
4                      Proactive foreground core     7600     5265       failed
5                 Open-source optimizing database     7600    13195   successful
6           Operative upward-trending algorithm     5200     1090       failed
7                Centralized cohesive challenge     4500    14741   successful
8          Exclusive attitude-oriented intranet   110100    21946         live
9                Open-source fresh-thinking model     6200     3208       failed
```

```
   backers_count country currency  launch_date     end_date  staff_pick  \
0              0      CA      CAD   1581573600   1614578400       False
1            158      US      USD   1611554400   1621918800       False
2           1425      AU      AUD   1608184800   1640844000       False
3             24      US      USD   1634792400   1642399200       False
4             53      US      USD   1608530400   1629694800       False
5            174      DK      DKK   1607666400   1630213200       False
6             18      GB      GBP   1596171600   1620709200       False
7            227      DK      DKK   1608616800   1632200400       False
```

```
8              708      DK    DKK    1586322000  1615356000    False
9               44      US    USD    1628830800  1630386000    False

   spotlight   category & sub-category       category    subcategory
0     False           food/food trucks          food    food trucks
1      True                 music/rock         music            rock
2     False             technology/web    technology             web
3     False                 music/rock         music            rock
4     False               theater/plays       theater           plays
5     False               theater/plays       theater           plays
6     False  film & video/documentary  film & video     documentary
7     False               theater/plays       theater           plays
8     False               theater/plays       theater           plays
9     False         music/electric music        music  electric music
```

[16]:
```python
# Convert the goal and pledged columns to a `float` data type.
campaign_df[["goal", "pledged"]] = campaign_df[["goal", "pledged"]].astype(float)
campaign_df.head()
```

[16]:
```
   cf_id  contact_id                    company_name  \
0    147        4661   Baldwin, Riley and Jackson
1   1621        3765                     Odom Inc
2   1812        4187   Melton, Robinson and Fritz
3   2156        4941   Mcdonald, Gonzalez and Ross
4   1365        2199                 Larson-Little

                             description      goal    pledged  \
0        Pre-emptive tertiary standardization    100.0       0.0
1            Managed bottom-line architecture   1400.0   14560.0
2  Function-based leadingedge pricing structure  108400.0  142523.0
3  Vision-oriented fresh-thinking conglomeration    4200.0    2477.0
4                   Proactive foreground core     7600.0    5265.0

       outcome  backers_count country currency  launch_date    end_date  \
0       failed              0      CA      CAD   1581573600  1614578400
1   successful            158      US      USD   1611554400  1621918800
2   successful           1425      AU      AUD   1608184800  1640844000
3       failed             24      US      USD   1634792400  1642399200
4       failed             53      US      USD   1608530400  1629694800

   staff_pick  spotlight category & sub-category       category    subcategory
0      False      False           food/food trucks          food    food trucks
1      False       True                 music/rock         music            rock
2      False      False             technology/web    technology             web
3      False      False                 music/rock         music            rock
4      False      False               theater/plays       theater           plays
```

8

```
[17]:  # Check the datatypes
       campaign_df.dtypes
```

```
[17]:  cf_id                        int64
       contact_id                   int64
       company_name                object
       description                 object
       goal                       float64
       pledged                    float64
       outcome                     object
       backers_count                int64
       country                     object
       currency                    object
       launch_date                  int64
       end_date                     int64
       staff_pick                    bool
       spotlight                     bool
       category & sub-category     object
       category                    object
       subcategory                 object
       dtype: object
```

```
[18]:  # Format the launched_date and end_date columns to datetime format
       from datetime import datetime as dt
       campaign_df["launch_date"] = pd.to_datetime(campaign_df["launch_date"],
         →unit='s').dt.strftime('%Y-%m-%d')
       campaign_df["end_date"] = pd.to_datetime(campaign_df["end_date"], unit='s').dt.
         →strftime('%Y-%m-%d')
       campaign_df.head()
```

```
[18]:    cf_id  contact_id                    company_name  \
       0    147        4661    Baldwin, Riley and Jackson
       1   1621        3765                      Odom Inc
       2   1812        4187    Melton, Robinson and Fritz
       3   2156        4941  Mcdonald, Gonzalez and Ross
       4   1365        2199                  Larson-Little

                                          description       goal    pledged  \
       0          Pre-emptive tertiary standardization      100.0        0.0
       1              Managed bottom-line architecture     1400.0    14560.0
       2   Function-based leadingedge pricing structure   108400.0   142523.0
       3   Vision-oriented fresh-thinking conglomeration    4200.0     2477.0
       4                        Proactive foreground core    7600.0     5265.0

             outcome  backers_count country currency launch_date    end_date  \
       0       failed              0      CA      CAD  2020-02-13  2021-03-01
       1   successful            158      US      USD  2021-01-25  2021-05-25
```

```
2  successful           1425     AU      AUD   2020-12-17  2021-12-30
3      failed             24     US      USD   2021-10-21  2022-01-17
4      failed             53     US      USD   2020-12-21  2021-08-23

    staff_pick  spotlight category & sub-category    category   subcategory
0        False      False          food/food trucks       food   food trucks
1        False       True               music/rock       music         rock
2        False      False           technology/web  technology          web
3        False      False               music/rock       music         rock
4        False      False            theater/plays     theater        plays
```

[19]:
```python
# Merge the campaign_df with the category_df on the "category" column and
# the subcategory_df on the "subcategory" column.
campaign_merged_df = campaign_df.merge(category_df, on='category', how='left').
 ↪merge(subcategory_df, on="subcategory", how="left")

campaign_merged_df.tail(10)
```

[19]:
```
     cf_id  contact_id                     company_name  \
990   1561        5500                     Ortiz-Roberts
991   2632        3494                      Ramirez LLC
992    439        3924                       Morrow Inc
993    461        3521                  Erickson-Rogers
994   1419        5262            Leach, Rich and Price
995   2986        3684                 Manning-Hamilton
996   2031        5784                      Butler LLC
997   1627        1498                         Ball LLC
998   2175        6073      Taylor, Santiago and Flores
999   1788        4939  Hernandez, Norton and Kelley

                                 description      goal    pledged      outcome  \
990         Devolved foreground customer loyalty    7800.0     6839.0       failed
991              Reduced reciprocal focus group    9800.0    11091.0   successful
992                  Networked global migration    3100.0    13223.0   successful
993          De-engineered even-keeled definition    9800.0     7608.0     canceled
994      Implemented bi-directional flexibility  141100.0    74073.0       failed
995         Vision-oriented scalable definition   97300.0   153216.0   successful
996  Future-proofed upward-trending migration     6600.0     4814.0       failed
997          Right-sized full-range throughput     7600.0     4603.0     canceled
998      Polarized composite customer loyalty   66600.0    37823.0       failed
999           Expanded eco-centric policy       111100.0    62819.0     canceled

     backers_count country currency launch_date    end_date  staff_pick  \
990             64      US      USD  2021-06-09  2021-06-18       False
991            241      US      USD  2020-12-09  2021-05-26       False
992            132      US      USD  2020-06-14  2021-02-09       False
993             75      IT      EUR  2021-07-03  2021-07-08       False
```

```
994              842          US        USD   2021-11-15  2021-12-07          False
995             2043          US        USD   2020-12-29  2021-05-30          False
996              112          US        USD   2021-10-15  2021-11-30          False
997              139          IT        EUR   2021-11-06  2021-12-10          False
998              374          US        USD   2020-10-08  2021-04-11          False
999             1122          US        USD   2020-12-30  2021-08-18          False


        spotlight        category & sub-category         category  \
990         True              film & video/drama    film & video
991         True                      music/rock           music
992         True              film & video/drama    film & video
993         True   photography/photography books     photography
994         True           publishing/translations     publishing
995         True               food/food trucks            food
996        False                   theater/plays         theater
997        False                   theater/plays         theater
998         True               music/indie rock           music
999        False                   food/food trucks           food


          subcategory category_id subcategory_id
990            drama        cat5        subcat7
991             rock        cat2        subcat2
992            drama        cat5        subcat7
993  photography books       cat8       subcat15
994       translations       cat6       subcat19
995        food trucks       cat1        subcat1
996             plays        cat4        subcat4
997             plays        cat4        subcat4
998        indie rock        cat2        subcat8
999        food trucks       cat1        subcat1
```

```python
# Drop unwanted columns
campaign_cleaned = campaign_merged_df.drop(['staff_pick','spotlight','category &
 ↪sub-category','category','subcategory'], axis=1)
campaign_cleaned.head()
```

```
[20]:    cf_id  contact_id                   company_name  \
     0    147        4661   Baldwin, Riley and Jackson
     1   1621        3765                       Odom Inc
     2   1812        4187   Melton, Robinson and Fritz
     3   2156        4941  Mcdonald, Gonzalez and Ross
     4   1365        2199                  Larson-Little


                                 description      goal   pledged  \
     0          Pre-emptive tertiary standardization    100.0       0.0
     1              Managed bottom-line architecture   1400.0   14560.0
     2  Function-based leadingedge pricing structure  108400.0  142523.0
```

```
3  Vision-oriented fresh-thinking conglomeration    4200.0    2477.0
4                      Proactive foreground core    7600.0    5265.0

       outcome  backers_count country currency launch_date    end_date  \
0       failed              0      CA      CAD  2020-02-13  2021-03-01
1   successful            158      US      USD  2021-01-25  2021-05-25
2   successful           1425      AU      AUD  2020-12-17  2021-12-30
3       failed             24      US      USD  2021-10-21  2022-01-17
4       failed             53      US      USD  2020-12-21  2021-08-23

   category_id subcategory_id
0        cat1        subcat1
1        cat2        subcat2
2        cat3        subcat3
3        cat2        subcat2
4        cat4        subcat4
```

[21]:
```python
# Export the DataFrame as a CSV file.
campaign_cleaned.to_csv("Resources/campaign.csv", index=False)
```

0.2.1 Extract the contacts.xlsx Data.

[22]:
```python
# Read the data into a Pandas DataFrame. Use the `header=2` parameter when
 ↪reading in the data.
contact_info_df = pd.read_excel('Resources/contacts.xlsx', header=2)
contact_info_df.head()
```

[22]:
```
0
contact_info
1    {"contact_id": 4661, "name": "Cecilia Velasco", "email":
"cecilia.velasco@rodrigues.fr"}
2          {"contact_id": 3765, "name": "Mariana Ellis", "email":
"mariana.ellis@rossi.org"}
3            {"contact_id": 4187, "name": "Sofie Woods", "email":
"sofie.woods@riviere.com"}
4    {"contact_id": 4941, "name": "Jeanette Iannotti", "email":
"jeanette.iannotti@yahoo.com"}
```

0.3 ### Create the Contacts DataFrame

Create a Contacts DataFrame that has the following columns: - A column named "contact_id" that contains the unique number of the contact person. - A column named "first_name" that contains the first name of the contact person. - A column named "last_name" that contains the first name of the contact person. - A column named "email" that contains the email address of the contact person

Then export the DataFrame as a `contacts.csv` CSV file.

0.3.1 Option 1: Use Pandas to create the contacts DataFrame.

```
[23]: # Iterate through the contact_info_df and convert each row to a dictionary.
      import json
      dict_values = []
      contact_ids = []
      names = []
      emails = []

      contacts_df = pd.read_excel('Resources/contacts.xlsx', header=None,␣
        ↪names=['info'])
      contacts_df = contacts_df.iloc[4:]

      for i in range(len(contacts_df)):
          data = json.loads(contacts_df.iloc[i,0])
          contact_id = data["contact_id"]
          name = data["name"]
          email = data["email"]
          dict_values.append([contact_id, name, email])
          contact_ids.append(contact_id)
          names.append(name)
          emails.append(email)


      # Print out the list of values for each row.
      print(dict_values)
```

```
[[4661, 'Cecilia Velasco', 'cecilia.velasco@rodrigues.fr'], [3765, 'Mariana
Ellis', 'mariana.ellis@rossi.org'], [4187, 'Sofie Woods',
'sofie.woods@riviere.com'], [4941, 'Jeanette Iannotti',
'jeanette.iannotti@yahoo.com'], [2199, 'Samuel Sorgatz',
'samuel.sorgatz@gmail.com'], [5650, 'Socorro Luna', 'socorro.luna@hotmail.com'],
[5889, 'Carolina Murray', 'carolina.murray@knight.com'], [4842, 'Kayla Moon',
'kayla.moon@yahoo.de'], [3280, 'Ariadna Geisel', 'ariadna.geisel@rangel.com'],
[5468, 'Danielle Ladeck', 'danielle.ladeck@scalfaro.net'], [3064, 'Tatiana
Thompson', 'tatiana.thompson@hunt.net'], [4904, 'Caleb Benavides',
'caleb.benavides@rubio.com'], [1299, 'Sandra Hardy', 'sandra.hardy@web.de'],
[5602, 'Lotti Morris', 'lotti.morris@yahoo.co.uk'], [5753, 'Reinhilde White',
'reinhilde.white@voila.fr'], [4495, 'Kerry Patel',
'kerry.patel@hutchinson.com'], [4269, 'Sophie Antoine',
'sophie.antoine@andersen.com'], [2226, 'Martha Girard', 'martha.girard@web.de'],
[1558, 'Stephanie King', 'stephanie.king@cervantes.com'], [2307, 'Amanda
Palmer', 'amanda.palmer@didier.fr'], [2900, 'Lina Alcala',
'lina.alcala@vespa.net'], [5695, 'Itzel Murphy', 'itzel.murphy@muelichen.de'],
[5708, 'Filippo Parry', 'filippo.parry@live.com'], [1663, 'Katelyn Cole',
'katelyn.cole@fiebig.com'], [3605, 'Brian Novak', 'brian.novak@ford.net'],
[4678, 'Cilly Gay', 'cilly.gay@callegaro.it'], [2251, 'Yolanda Snyder',
'yolanda.snyder@gmx.de'], [6202, 'Evelin Odonnell',
```

'evelin.odonnell@ibarra.net'], [3715, 'Ingeborg Alba',
'ingeborg.alba@hotmail.com'], [4242, 'Marina Madrid', 'marina.madrid@galarza-
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'dustin.camacho@rhodes.org.au'], [3813, 'Amalia Marenzio',
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'greca.ruiz@carr.co.uk'], [4482, 'Gerald Olivera',
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'jaqueline.wallace@gmail.com'], [3477, 'John Lane', 'john.lane@gregoire.fr'],
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'chad.turner@gmail.com'], [2288, 'Adam Zavala', 'adam.zavala@guichard.fr'],
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'marguerite.walls@martinez.fr'], [2851, 'Peter Vogt', 'peter.vogt@yahoo.com'],
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'grit.knight@web.de'], [3173, 'Erin Weinhold', 'erin.weinhold@hotmail.fr'],
[3333, 'Craig Jordan', 'craig.jordan@gmail.com'], [2262, 'Homero Respighi',
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[1803, 'Alphons Simmons', 'alphons.simmons@hotmail.com'], [2321, 'Ludovico
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[24]:
```python
# Create a contact_info DataFrame and add each list of values, i.e., each row
# to the 'contact_id', 'name', 'email' columns.
contact_info = pd.DataFrame({'contact_id':contact_ids, 'name':names, 'email':
 →emails})
```

```
contact_info.head()
```

[24]:   contact_id   name   email
      0   4661   Cecilia Velasco   cecilia.velasco@rodrigues.fr
      1   3765   Mariana Ellis   mariana.ellis@rossi.org
      2   4187   Sofie Woods   sofie.woods@riviere.com
      3   4941 Jeanette Iannotti   jeanette.iannotti@yahoo.com
      4   2199   Samuel Sorgatz   samuel.sorgatz@gmail.com

```
# Check the datatypes.
contact_info.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1000 entries, 0 to 999
Data columns (total 3 columns):
 #   Column      Non-Null Count  Dtype
---  ------      --------------  -----
 0   contact_id  1000 non-null   int64
 1   name        1000 non-null   object
 2   email       1000 non-null   object
dtypes: int64(1), object(2)
memory usage: 23.6+ KB
```

```
# Create a "first"name" and "last_name" column with the first and last names␣
 ↪from the "name" column.
contacts_df_clean = contact_info
contacts_df_clean[['first_name', 'last_name']] = contacts_df_clean['name'].str.
 ↪split(' ', expand=True)

# Drop the contact_name column
contacts_df_clean = contact_info.drop('name', axis=1)
contacts_df_clean.head()
```

[26]:   contact_id   email first_name last_name
      0   4661   cecilia.velasco@rodrigues.fr   Cecilia   Velasco
      1   3765   mariana.ellis@rossi.org   Mariana   Ellis
      2   4187   sofie.woods@riviere.com   Sofie   Woods
      3   4941   jeanette.iannotti@yahoo.com   Jeanette Iannotti
      4   2199   samuel.sorgatz@gmail.com   Samuel   Sorgatz

```
# Reorder the columns
contacts_df_clean = contact_info[['contact_id','first_name','last_name','email']]
contacts_df_clean.head()
```

[27]:   contact_id first_name last_name   email
      0   4661   Cecilia   Velasco   cecilia.velasco@rodrigues.fr
      1   3765   Mariana   Ellis   mariana.ellis@rossi.org
      2   4187   Sofie   Woods   sofie.woods@riviere.com

```
   3     4941    Jeanette    Iannotti    jeanette.iannotti@yahoo.com
   4     2199      Samuel     Sorgatz       samuel.sorgatz@gmail.com
```

[28]: `# Check the datatypes one more time before exporting as CSV file.`
`contacts_df_clean.info()`

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1000 entries, 0 to 999
Data columns (total 4 columns):
 #   Column      Non-Null Count  Dtype
---  ------      --------------  -----
 0   contact_id  1000 non-null   int64
 1   first_name  1000 non-null   object
 2   last_name   1000 non-null   object
 3   email       1000 non-null   object
dtypes: int64(1), object(3)
memory usage: 31.4+ KB
```

[29]: `# Export the DataFrame as a CSV file.`
`contacts_df_clean.to_csv("Resources/contacts.csv", encoding='utf8', index=False)`

0.3.2 Option 2: Use regex to create the contacts DataFrame.

[30]: `contact_info_df_copy = contact_info_df.copy()`
`contact_info_df_copy.head()`

[30]:
```
   0
   contact_info
   1  {"contact_id": 4661, "name": "Cecilia Velasco", "email":
   "cecilia.velasco@rodrigues.fr"}
   2       {"contact_id": 3765, "name": "Mariana Ellis", "email":
   "mariana.ellis@rossi.org"}
   3         {"contact_id": 4187, "name": "Sofie Woods", "email":
   "sofie.woods@riviere.com"}
   4  {"contact_id": 4941, "name": "Jeanette Iannotti", "email":
   "jeanette.iannotti@yahoo.com"}
```

[31]: `# Extract the four-digit contact ID number.`

[32]: `# Check the datatypes.`

[33]: `# Convert the "contact_id" column to an int64 data type.`

[34]: `# Extract the name of the contact and add it to a new column.`

[35]: `# Extract the email from the contacts and add the values to a new column.`

```python
[36]: # Create a copy of the contact_info_df with the 'contact_id', 'name', 'email'␣
      ↪columns.
```

```python
[37]: # Create a "first"name" and "last_name" column with the first and last names␣
      ↪from the "name" column.


      # Drop the contact_name column
```

```python
[38]: # Reorder the columns
```

```python
[39]: # Check the datatypes one more time before exporting as CSV file.
```

```python
[40]: # Export the DataFrame as a CSV file.
      # contacts_df_clean.to_csv("Resources/contacts.csv", encoding='utf8',␣
      ↪index=False)
```

```python
[ ]:
```