

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

Extract the crowdfunding.xlsx Data

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

Out[2]:

	cf_id	contact_id	company_name	blurb	goal	pledged	outcome	backers_count	cour
0	147	4661	Baldwin, Riley and Jackson	Pre-emptive tertiary standardization	100	0	failed	0	
1	1621	3765	Odom Inc	Managed bottom-line architecture	1400	14560	successful	158	
2	1812	4187	Melton, Robinson and Fritz	Function-based leading edge pricing structure	108400	142523	successful	1425	
3	2156	4941	McDonald, Gonzalez and Ross	Vision-oriented fresh-thinking conglomeration	4200	2477	failed	24	
4	1365	2199	Larson-Little	Proactive foreground core	7600	5265	failed	53	

```
In [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
```

Create the Category and Subcategory DataFrames

Create a Category DataFrame that has the following columns:

- A "category_id" column that has entries going sequentially from "cat1" to "cat n ", where n is the number of unique categories
- A "category" column that contains only the category titles

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

Create a SubCategory DataFrame that has the following columns:

- A "subcategory_id" column that has entries going sequentially from "subcat1" to "subcat n ", where n is the number of unique subcategories
- A "subcategory" column that contains only the subcategory titles

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

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

```
Out[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')
```

```
In [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(' ', 1).str
```

Out[5]:

	cf_id	contact_id	company_name	blurb	goal	pledged	outcome	backers_count	cour
0	147	4661	Baldwin, Riley and Jackson	Pre-emptive tertiary standardization	100	0	failed	0	
1	1621	3765	Odom Inc	Managed bottom-line architecture	1400	14560	successful	158	
2	1812	4187	Melton, Robinson and Fritz	Function-based leading-edge pricing structure	108400	142523	successful	1425	
3	2156	4941	McDonald, Gonzalez and Ross	Vision-oriented fresh-thinking conglomeration	4200	2477	failed	24	
4	1365	2199	Larson-Little	Proactive foreground core	7600	5265	failed	53	



In [6]: # 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']
```

In [7]: # Get the number of distinct values in the categories and subcategories lists.

```
print(len(categories))
print(len(subcategories))
```

9
24

In [8]: # 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]
```

In [9]: # Use a list comprehension to add "cat" to each category_id.
cat_ids = ['cat' + str(category) for category in category_ids]
Use a list comprehension to add "subcat" to each subcategory_id.

```
scat_ids = ['scat' + str(subcategory) for subcategory 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']
```

In [10]:

```
# Create a category DataFrame with the category_id array as the category_id and category
category_df = pd.DataFrame({
    'category_id': cat_ids,
    'category': categories
})

category_df
```

Out[10]:

	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

In [11]:

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

subcategory_df
```

	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

```
In [12]: # 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)
```

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.

```
In [13]: # Create a copy of the crowdfunding_info_df DataFrame name campaign_df.
campaign_df = crowdfunding_info_df.copy()
campaign_df.head()
```

	<code>cf_id</code>	<code>contact_id</code>	<code>company_name</code>	<code>blurb</code>	<code>goal</code>	<code>pledged</code>	<code>outcome</code>	<code>backers_count</code>	<code>cour</code>
0	147	4661	Baldwin, Riley and Jackson	Pre-emptive tertiary standardization	100	0	failed	0	
1	1621	3765	Odom Inc	Managed bottom-line architecture	1400	14560	successful	158	
2	1812	4187	Melton, Robinson and Fritz	Function-based leadingedge pricing structure	108400	142523	successful	1425	
3	2156	4941	McDonald, Gonzalez and Ross	Vision-oriented fresh-thinking conglomeration	4200	2477	failed	24	
4	1365	2199	Larson-Little	Proactive foreground core	7600	5265	failed	53	

```
In [14]: # 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()
```

Out[14]:

	cf_id	contact_id	company_name	description	goal	pledged	outcome	backers_count	cour
0	147	4661	Baldwin, Riley and Jackson	Pre-emptive tertiary standardization	100	0	failed		0
1	1621	3765	Odom Inc	Managed bottom-line architecture	1400	14560	successful		158
2	1812	4187	Melton, Robinson and Fritz	Function-based leading edge pricing structure	108400	142523	successful		1425
3	2156	4941	McDonald, Gonzalez and Ross	Vision-oriented fresh-thinking conglomeration	4200	2477	failed		24
4	1365	2199	Larson-Little	Proactive foreground core	7600	5265	failed		53

In [15]:

```
# Convert the goal and pledged columns to a `float` data type.

campaign_df['goal'] = campaign_df['goal'].astype(float)
campaign_df['pledged'] = campaign_df['pledged'].astype(float)
```

In [16]:

```
# Check the datatypes
```

```
campaign_df.dtypes
```

```
Out[16]:
```

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	

In [17]:

```
# Format the Launched_date and end_date columns to datetime format
# Ensure this gets only ran once so errors are avoided. Else restart the code.

from datetime import datetime as dt
```

```
campaign_df['launch_date'] = pd.to_datetime(campaign_df['launch_date'], unit='s', utc=True)
campaign_df['end_date'] = pd.to_datetime(campaign_df['end_date'], unit='s', utc=True)
campaign_df.head()
```

Out[17]:

	cf_id	contact_id	company_name	description	goal	pledged	outcome	backers_count	co
0	147	4661	Baldwin, Riley and Jackson	Pre-emptive tertiary standardization	100.0	0.0	failed	0	
1	1621	3765	Odom Inc	Managed bottom-line architecture	1400.0	14560.0	successful	158	
2	1812	4187	Melton, Robinson and Fritz	Function-based leading edge pricing structure	108400.0	142523.0	successful	1425	
3	2156	4941	McDonald, Gonzalez and Ross	Vision-oriented fresh-thinking conglomeration	4200.0	2477.0	failed	24	
4	1365	2199	Larson-Little	Proactive foreground core	7600.0	5265.0	failed	53	

In [18]:

```
# Merge the campaign_df with the category_df on the "category" column and
# the subcategory_df on the "subcategory" column.

campaign_merged_df = pd.merge(pd.merge(campaign_df, category_df, how='left', left_on='category',
                                         right_on='category'), subcategory_df, how='left', left_on='subcategory', right_on='subcategory').head(10)
```

Out[18]:

	cf_id	contact_id	company_name	description	goal	pledged	outcome	backers_count	co
0	147	4661	Baldwin, Riley and Jackson	Pre-emptive tertiary standardization	100.0	0.0	failed		0
1	1621	3765	Odom Inc	Managed bottom-line architecture	1400.0	14560.0	successful	158	
2	1812	4187	Melton, Robinson and Fritz	Function-based leading-edge pricing structure	108400.0	142523.0	successful	1425	
3	2156	4941	Mcdonald, Gonzalez and Ross	Vision-oriented fresh-thinking conglomeration	4200.0	2477.0	failed	24	
4	1365	2199	Larson-Little	Proactive foreground core	7600.0	5265.0	failed	53	
5	2057	5650	Harris Group	Open-source optimizing database	7600.0	13195.0	successful	174	
6	1894	5889	Ortiz, Coleman and Mitchell	Operative upward-trending algorithm	5200.0	1090.0	failed	18	
7	2669	4842	Carter-Guzman	Centralized cohesive challenge	4500.0	14741.0	successful	227	
8	1114	3280	Nunez-Richards	Exclusive attitude-oriented intranet	110100.0	21946.0	live	708	
9	970	5468	Rangel, Holt and Jones	Open-source fresh-thinking model	6200.0	3208.0	failed	44	

In [19]:

```
# Drop unwanted columns
# Columns that were dropped was followed as per the sample output.
# Ensure that this line of code gets executed only once. Else, it will give out an error
# the dropping of columns.

unwanted_columns = ['staff_pick', 'spotlight', 'category & sub-category', 'category',
campaign_cleaned = campaign_merged_df.drop(unwanted_columns, axis=1)

campaign_cleaned.tail()
```

Out[19]:

	cf_id	contact_id	company_name	description	goal	pledged	outcome	backers_count	cou
995	2986	3684	Manning-Hamilton	Vision-oriented scalable definition	97300.0	153216.0	successful	2043	
996	2031	5784	Butler LLC	Future-proofed upward-trending migration	6600.0	4814.0	failed	112	
997	1627	1498	Ball LLC	Right-sized full-range throughput	7600.0	4603.0	canceled	139	
998	2175	6073	Taylor, Santiago and Flores	Polarized composite customer loyalty	66600.0	37823.0	failed	374	
999	1788	4939	Hernandez, Norton and Kelley	Expanded eco-centric policy	111100.0	62819.0	canceled	1122	

In [20]: `# Export the DataFrame as a CSV file.
campaign_cleaned.to_csv("Resources/campaign.csv", index=False)`

Extract the contacts.xlsx Data.

In [21]: `# Read the data into a Pandas DataFrame. Use the `header=2` parameter when reading in
contact_info_df = pd.read_excel('Resources/contacts.xlsx', header=2)
contact_info_df.head()`

Out[21]:

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"}

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 last 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.

Option 1: Use Pandas to create the contacts DataFrame.

```
In [22]: # Iterate through the contact_info_df and convert each row to a dictionary.
import json

dict_values = []

# Iterate through the contact_info_df and convert each row to a dictionary.
for i, row in contact_info_df.iterrows():
    if i == 0:
        # Skip the first row with the header 'contact_info'
        continue

    # Get the data in each row.
    data = row[0]
    converted_data = json.loads(data)

    # Extract specific values from the dictionary and append to the list.
    row_values = [converted_data['contact_id'], converted_data['name'], converted_data['email'], converted_data['phone'], converted_data['address']]

    # Append the list of values for each row to the new list.
    dict_values.append(row_values)

# 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 Ladек', 'danielle.ladeck@scalfaro.net'], [3064, 'Tatiana Thompson', 'tatiana.thompson@hun.t.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 Alcalá', '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-alba.com'], [4326, 'Sheila Goodwin', 'sheila.goodwin@yahoo.com'], [5560, 'Valeria Rich', 'valeria.rich@turchetta-mondadori.it'], [4002, 'Dustin Camacho', 'dustin.camacho@rhodes.org.au'], [3813, 'Amalia Marenzio', 'amalia.marenzio@grupo.com'], [5336, 'Gian Long', 'gian.long@hotmail.com'], [4994, 'Stewart Hunt', 'stewart.hunt@anderson-vargas.biz'], [1471, 'Greca Ruiz', 'greca.ruiz@carr.co.uk'], [4482, 'Gerald Olivera', 'gerald.olivera@outlook.com'], [3241, 'Jaqueline Wallace', 'jaqueline.wallace@gmail.com'], [3477, 'John Lane', 'john.lane@gregoire.fr'], [2265, 'Pero Joly', 'pero.joly@bernard.net'], [5911, 'Chad Turner', 'chad.turner@gmail.com'], [2288, 'Adam Zavala', 'adam.zavala@guichard.fr'], [4064, 'Tyler Rivera', 'tyler.rivera@guajardo-ozuna.com'], [1294, 'Jens Graham', 'jens.graham@jones-buckley.com'], [5008, 'Virginia Caetani', 'virginia.caetani@sosa.biz'], [3604, 'Martino Wagner', 'martino.wagner@laposte.net'], [3263, 'Martin Meyer', 'martin.meyer@davis.co.uk'], [5631, 'Marguerite Walls', 'marguerite.walls@martinez.fr'], [2851, 'Peter Vogt', 'peter.vogt@yahoo.com'], [3714, 'Nicholas Christian', 'nicholas.christian@hotmail.de'], [1664, 'Susi Steinberg', 'susi.steinberg@preiss.com'], [5027, 'Tammy Ramazzotti', 'tammy.ramazzotti@gmail.com'], [3070, 'Abdul Thomas', 'abdul.thomas@vasari.com'], [4248, 'Justin Luxardo', 'justin.luxardo@googlemail.com'], [2034, 'Antonio Gibson', 'antonio.gibson@faust.net'], [4085, 'Jeremy Gomez', 'jeremy.gomez@oconnor.org'], [3569, 'Raymond Solorzano', 'raymond.solorzano@gmail.com'], [3889, 'Flora Harris', 'flora.harris@hotmail.com.au'], [3136, 'Cheryl Boyd', 'cheryl.boyd@sgni.it'], [2103, 'Rhys Leiva', 'rhys.leiva@gmx.de'], [2329, 'Mariano Prieto', 'mariano.prieto@vodafone.it'], [3325, 'Laurie Fibonacci', 'laurie.fibonacci@gmail.com'], [3131, 'David Rudolph', 'david.rudolph@nelson.com'], [4995, 'Bryan Ross', 'bryan.ross@yahoo.com'], [3631, 'Ubaldo Brown', 'ubaldo.brown@philippe.com'], [5373, 'Clelia Faulkner', 'clelia.faulkner@hotmail.com'], [3126, 'Sara Erickson', 'sara.erickson@yahoo.de'], [2194, 'Rupert Valle', 'rupert.valle@filogamo.it'], [2906, 'Puccio Kitzmann', 'puccio.kitzmann@yahoo.com'], [2611, 'Thomas Hutchinson', 'thomas.hutchinson@gmx.de'], [2374, 'Abelardo Castro', 'abelardo.castro@gmail.com'], [3254, 'Greco Walker', 'greco.walker@yahoo.com'], [3571, 'Miranda Lacombe', 'miranda.lacombe@longoria-vanegas.net'], [2812, 'Diana Schuchhardt', 'diana.schuchhardt@libero.it'], [3961, 'Stacey Knox', 'stacey.knox@corporacion.com'], [3872, 'Glen Faivre', 'glen.faivre@yahoo.com'], [4736, 'Andrew Torres', 'andrew.torres@ruiz-torres.org'], [5119, 'Denny Fritz', 'denny.fritz@despacho.biz'], [5725, 'Martyn Caldera', 'martyn.caldera@hotmail.co.uk'], [4037, 'Abigail Foster', 'abigail.foster@taylor.net'], [2109, 'Anthony Hauffer', 'anthony.hauffer@tlustek.org'], [3283, 'Roger Gerlach', 'roger.gerlach@may-mitchell.co.uk'], [6181, 'Christopher Poirier', 'christopher.poirier@hotmail.com'], [3251, 'Branka Traore', 'branka.traore@jacobi.com'], [3443, 'Briana Etienne', 'briana.etienne@bishop-coates.com'], [2988, 'Brandon Olson', 'brandonolson@prince-moreno.net'], [1673, 'Celia Ungaretti', 'celia.ungaretti@fox.com'], [2085, 'Barbara Guibert', 'barbara.guibert@casares-sanches.com'], [1672, 'Daniela Bell', 'daniela.bell@vollbrecht.org'], [4426, 'Phyllis Gurule', 'phyllis.gurule@rodriguez-pham.com'], [3211, 'Alejandra 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```
In [23]: # Create a contact_info DataFrame and add each list of values, i.e., each row
# to the 'contact_id', 'name', 'email' columns.
contact_info_df = pd.DataFrame(dict_values, columns=['contact_id', 'name', 'email'])
contact_info_df.head()
```

Out[23]:

	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

```
In [24]: # Check the datatypes.
contact_info_df.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
```

```
In [25]: # Create a "first_name" and "last_name" column with the first and last names from the
contact_info_df[['first_name', 'last_name']] = contact_info_df['name'].str.split(' ',

# Drop the contact_name column
# Ensure to run this code once, else it will display an error due to dropping
# of columns
contact_info_df.drop(columns=['name'], inplace=True)

contact_info_df.head(10)
```

Out[25]:

	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
5	5650	socorro.luna@hotmail.com	Socorro	Luna
6	5889	carolina.murray@knight.com	Carolina	Murray
7	4842	kayla.moon@yahoo.de	Kayla	Moon
8	3280	ariadna.geisel@rangel.com	Ariadna	Geisel
9	5468	danielle.ladeck@scalfaro.net	Danielle	Ladeck

In [29]:

```
# Reorder the columns
contacts_df_clean = contact_info_df[['contact_id', 'first_name', 'last_name', 'email']]
contacts_df_clean.head(10)
```

Out[29]:

	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
5	5650	Socorro	Luna	socorro.luna@hotmail.com
6	5889	Carolina	Murray	carolina.murray@knight.com
7	4842	Kayla	Moon	kayla.moon@yahoo.de
8	3280	Ariadna	Geisel	ariadna.geisel@rangel.com
9	5468	Danielle	Ladeck	danielle.ladeck@scalfaro.net

In [30]:

```
# 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
```

```
In [28]: # Export the DataFrame as a CSV file.  
contacts_df_clean.to_csv("Resources/contacts.csv", encoding='utf8', index=False)
```

```
In [ ]:
```