

# etl\_extract

August 23, 2024

```
[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

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

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

```
<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
```

```
[3]: (1000, 15)
```

## 0.1 ### 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 “catn”, 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 “subcatn”, 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.

```
[4]: # Get the crowdfunding_info_df columns.
columns = df.columns
print(columns)
```

```
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.
df[["category", "subcategory"]] = df["category & sub-category"].str.split("/",
      ↪ expand=True)
df.drop(columns=["category & sub-category"], inplace=True)
df.head()
```

```
[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	

  

		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	subcategory
0	False	food	food trucks
1	True	music	rock
2	False	technology	web
3	False	music	rock
4	False	theater	plays

```
[6]: # Get the unique categories and subcategories in separate lists.
categories = df["category"].unique().tolist()
subcategories = df["subcategory"].unique().tolist()

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]: # Get the number of distinct values in the categories and subcategories lists.
unique_categories = set(categories)
num_unique_categories = len(unique_categories)
unique_subcategories = set(subcategories)
num_unique_subcategories = len(unique_subcategories)
print(num_unique_categories)
print(num_unique_subcategories)
```

```
9
24
```

```
[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]
```

```
[9]: # Use a list comprehension to add "cat" to each category_id.
cat_ids = category_ids.tolist()
cat_ids2 = [f"cat{cat_id}" for cat_id in category_ids]
# Use a list comprehension to add "subcat" to each subcategory_id.
scat_ids = subcategory_ids.tolist()
scat_ids2 = [f"subcat{scat_id}" for scat_id in subcategory_ids]
print(cat_ids2)
print(scat_ids2)
```

```
['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]: # 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': category_ids, 'category_name':
      ↪ 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': subcategory_ids,
↳'subcategory_name': subcategories})
```

```
[11]: category_df
```

```
[11]:  category_id  category_name
0           1         food
1           2         music
2           3    technology
3           4        theater
4           5  film & video
5           6    publishing
6           7         games
7           8    photography
8           9    journalism
```

```
[12]: subcategory_df
```

```
[12]:  subcategory_id  subcategory_name
0           1    food trucks
1           2         rock
2           3         web
3           4         plays
4           5    documentary
5           6  electric music
6           7         drama
7           8    indie rock
8           9    wearables
9          10    nonfiction
10          11    animation
11          12    video games
12          13        shorts
13          14        fiction
14          15  photography books
15          16  radio & podcasts
16          17         metal
17          18         jazz
18          19    translations
19          20    television
20          21    mobile games
21          22    world music
22          23  science fiction
23          24         audio
```

```
[13]: # 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]: # Create a copy of the crowdfunding_info_df DataFrame name campaign_df.
campaign_df = 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	
4	53	US	USD	1608530400	1629694800	False	

  

	spotlight	category	subcategory
0	False	food	food trucks
1	True	music	rock

2	False	technology	web
3	False	music	rock
4	False	theater	plays

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

```
[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

      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

      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

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

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

```
[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         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')
campaign_df['end_date'] = pd.to_datetime(campaign_df['end_date'], unit='s')
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 \
0   failed           0      CA      CAD  2020-02-13 06:00:00
1  successful        158      US      USD  2021-01-25 06:00:00
2  successful       1425      AU      AUD  2020-12-17 06:00:00
3   failed          24      US      USD  2021-10-21 05:00:00
4   failed          53      US      USD  2020-12-21 06:00:00

   end_date  staff_pick  spotlight  category  subcategory
0  2021-03-01 06:00:00    False    False    food  food trucks
1  2021-05-25 05:00:00    False     True    music      rock
2  2021-12-30 06:00:00    False    False  technology      web

```



3	2022-01-17 06:00:00	False	False	music	rock
4	2021-08-23 05:00:00	False	False	theater	plays

```
[40]: # Merge the campaign_df with the category_df on the "category" column and
# the subcategory_df on the "subcategory" column.

# Merge on "category"
campaign_merged_df = pd.merge(campaign_df, category_df, left_on="category",
    ↪right_on="category_name", how="left")

# Merge on "subcategory"
campaign_merged_df = pd.merge(campaign_merged_df, subcategory_df,
    ↪left_on="subcategory", right_on="subcategory_name", how="left")

# Drop the redundant columns "category_name" and "subcategory_name"
campaign_merged_df.drop(["staff_pick", "spotlight", "category", "subcategory",
    ↪"category_name", "subcategory_name"], axis=1, inplace=True)

campaign_merged_df.tail(10)
```

```
[40]:
```

	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 \
990	64	US	USD	2021-06-09 05:00:00	2021-06-18 05:00:00
991	241	US	USD	2020-12-09 06:00:00	2021-05-26 05:00:00

992	132	US	USD	2020-06-14	05:00:00	2021-02-09	06:00:00
993	75	IT	EUR	2021-07-03	05:00:00	2021-07-08	05:00:00
994	842	US	USD	2021-11-15	06:00:00	2021-12-07	06:00:00
995	2043	US	USD	2020-12-29	06:00:00	2021-05-30	05:00:00
996	112	US	USD	2021-10-15	05:00:00	2021-11-30	06:00:00
997	139	IT	EUR	2021-11-06	05:00:00	2021-12-10	06:00:00
998	374	US	USD	2020-10-08	05:00:00	2021-04-11	05:00:00
999	1122	US	USD	2020-12-30	06:00:00	2021-08-18	05:00:00

	category_id	subcategory_id
990	5	7
991	2	2
992	5	7
993	8	15
994	6	19
995	1	1
996	4	4
997	4	4
998	2	8
999	1	1

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

### 0.2.1 Extract the contacts.xlsx Data.

```
[21]: # Read the data into a Pandas DataFrame. Use the `header=3` parameter when
      ↪ reading in the data.
contact_info_df = pd.read_excel('Resources/contacts.xlsx', header=3)
contact_info_df.head()
```

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

```
[22]: # Iterate through the contact_info_df and convert each row to a dictionary.
import json
dict_values = []
for i, row in contact_info_df.iterrows():
    # Filter out rows starting with 'Note:' or 'contact_info'
    if not row['contact_info'].startswith(('Note:', 'contact_info')):
        contact_dict = json.loads(row["contact_info"])

        # Create formatted list and append (using 'name' directly)
        formatted_contact = [contact_dict["contact_id"], contact_dict["name"],
        ↪contact_dict["email"]]
        dict_values.append(formatted_contact)

# 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-
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',  
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'jelena.stiffel@trupp.de'], [5262, 'Guadalupe Munoz', 'guadalupe.munoz@murray-
hamilton.com.au'], [3684, 'Whitney Noack', 'whitney.noack@laboratorios.org'],
[5784, 'Gelsomina Migliaccio', 'gelsomina.migliaccio@junk.com'], [1498,
'Evangelista Pereira', 'evangelista.pereira@thompson-peterson.biz'], [6073,
'Gareth Comolli', 'gareth.comolli@tiscali.fr'], [4939, 'Michelangelo Hess',
'michelangelo.hess@bouygtel.fr']]
```

```
[23]: # Create a contact_info DataFrame and add each list of values, i.e., each row
# to the 'contact_id', 'name', 'email' columns.
contact_df = pd.DataFrame(dict_values, columns=['contact_id', 'name', 'email'])
contact_df.head()
```

```
[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

```

```

[24]: # Check the datatypes.
      contact_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

```

```

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

      # Drop the contact_name column
      contact_df.drop(columns=['name'], inplace=True)
      contact_df.head(10)

```

```

[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

```

```

[26]: # Reorder the columns
      contact_df_clean = contact_df[['contact_id', 'first_name', 'last_name',
      ↪'email']]
      contact_df_clean.head(10)

```

```

[26]:
      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

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

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

```
[ ]:
```