# **Use of Loan or Personal Capital to start business**

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

#### Out[2]:

	country	value	statistic	total_asked	statistic_type	who_was_asked	variable	question
0	AL	I'm not sure	50	372	count	Owners/Managers of Businesses	fob_bus_cdt	At this time, does this business have a line o
1	AL	No	158	372	count	Owners/Managers of Businesses	fob_bus_cdt	At this time, does this business have a line o
2	AL	Yes	82	372	count	Owners/Managers of Businesses	fob_bus_cdt	At this time, does this business have a line o
3	AL	NaN	82	372	count	Owners/Managers of Businesses	fob_bus_cdt	At this time, does this business have a line o
4	АО	I'm not sure	38	315	count	Owners/Managers of Businesses	fob_bus_cdt	At this time, does this business have a line o
31745	US	42.92005814	688	688	average	Owners/Managers of Businesses	fob_age	How old are you?
31746	UY	39.15697036	911	911	average	Owners/Managers of Businesses	fob_age	How old are you?
31747	VN	30.33366142	1016	1016	average	Owners/Managers of Businesses	fob_age	How old are you?
31748	ZA	33.31467474	661	661	average	Owners/Managers of Businesses	fob_age	How old are you?
31749	ZM	28.87769784	417	417	average	Owners/Managers of Businesses	fob_age	How old are you?

31750 rows × 8 columns

```
In [3]: capital.keys()
Out[3]: Index(['country', 'value', 'statistic', 'total_asked', 'statistic_type',
               'who_was_asked', 'variable', 'question'],
              dtvpe='object')
In [4]: capital.columns
Out[4]: Index(['country', 'value', 'statistic', 'total asked', 'statistic type',
               'who was asked', 'variable', 'question'],
              dtvpe='object')
In [5]: #getting the general information on my dataset
        capital.info()
        <class 'pandas.core.frame.DataFrame'>
        RangeIndex: 31750 entries, 0 to 31749
        Data columns (total 8 columns):
                            Non-Null Count Dtype
         # Column
                            31750 non-null object
            country
            value
                            23755 non-null object
         1
            statistic
                            31750 non-null int64
         2
         3 total asked
                            31750 non-null int64
            statistic type 31750 non-null object
            who was asked
                            31750 non-null object
             variable
                             31750 non-null object
             question
                            31750 non-null object
        dtypes: int64(2), object(6)
        memory usage: 1.9+ MB
```

#### Out[6]:

	country	value	statistic	total_asked	statistic_type	who_was_asked	variable	question
0	False	False	False	False	False	False	False	False
1	False	False	False	False	False	False	False	False
2	False	False	False	False	False	False	False	False
3	False	True	False	False	False	False	False	False
4	False	False	False	False	False	False	False	False
31745	False	False	False	False	False	False	False	False
31746	False	False	False	False	False	False	False	False
31747	False	False	False	False	False	False	False	False
31748	False	False	False	False	False	False	False	False
31749	False	False	False	False	False	False	False	False

31750 rows × 8 columns

Out[7]:

country value statistic total\_asked statistic\_type who\_was\_asked variable question

```
In [8]: #the dataset was generally base on the questions that was asked
        capital['question'].value counts()
Out[8]: How well do the following statements describe you?
                                                                                                                     8109
        In which sector is your main job?
                                                                                                                     6049
        What type of work does your spouse or partner do? (Select all that apply)
                                                                                                                     1649
        Of the following, which are the 3 biggest challenges in your community today?
                                                                                                                     1552
        What type of work do you do? (Select all that apply)
                                                                                                                     1411
        How many years have you worked in this sector?
                                                                                                                     1164
        Who lives in your household with you? (Select all that apply)
                                                                                                                     1164
        In which industry is your main job?
                                                                                                                     1067
        In what ways did your spouse or partner help you start this business?
                                                                                                                     1067
        Why did you start or join this business? Please select the main reason.
                                                                                                                     1066
        When you were a child, did your mother or father manage or own a business?
                                                                                                                     970
        Where did most of the starting money or funding for this business come from?
                                                                                                                      873
        Which of these describe your role at this business? (Select all that apply)
                                                                                                                      775
        How does using social media (like Facebook, Instagram, or WhatsApp) affect this business?
                                                                                                                      677
        What is your highest level of completed education?
                                                                                                                      580
        How many of the owners of this business are female?
                                                                                                                      485
        At this time, does this business have a line of credit or loan from a bank or financial institution?
                                                                                                                      388
        A role model is a person who serves as an example. Did you have a key role model growing up?
                                                                                                                      388
        How many people own this business?
                                                                                                                      388
        Which of these best describe the area you live in?
                                                                                                                      382
        Do you have a spouse or long-term partner?
                                                                                                                      291
        Do you earn the most money among people in your household?
                                                                                                                      291
        In your main business's industry and sector, do you think more businesses are owned by men or by women?
                                                                                                                      291
        What is your gender?
                                                                                                                      288
        Did you start or found this business?
                                                                                                                      288
        How old are you?
                                                                                                                       97
        Name: question, dtype: int64
In [9]: #getting my shape
        capital.shape
Out[9]: (31750, 8)
```

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#### Out[12]:

	country	value	statistic	total_asked	statistic_type	question
0	AL	I'm not sure	50	372	count	At this time, does this business have a line o
1	AL	No	158	372	count	At this time, does this business have a line o
2	AL	Yes	82	372	count	At this time, does this business have a line o
3	AL	NaN	82	372	count	At this time, does this business have a line o
4	AO	I'm not sure	38	315	count	At this time, does this business have a line o
31745	US	42.92005814	688	688	average	How old are you?
31746	UY	39.15697036	911	911	average	How old are you?
31747	VN	30.33366142	1016	1016	average	How old are you?
31748	ZA	33.31467474	661	661	average	How old are you?
31749	ZM	28.87769784	417	417	average	How old are you?

31750 rows × 6 columns

Out[13]:

	value	statistic	total_asked	statistic_type	question
country					
AL	I'm not sure	50	372	count	At this time, does this business have a line o
AL	No	158	372	count	At this time, does this business have a line o
AL	Yes	82	372	count	At this time, does this business have a line o
AL	NaN	82	372	count	At this time, does this business have a line o
AO	I'm not sure	38	315	count	At this time, does this business have a line o
US	42.92005814	688	688	average	How old are you?
UY	39.15697036	911	911	average	How old are you?
VN	30.33366142	1016	1016	average	How old are you?
ZA	33.31467474	661	661	average	How old are you?
ZM	28.87769784	417	417	average	How old are you?

31750 rows × 5 columns

Out[14]: MA 336 MM 335 335 BG IN 334 NG 334 ΚE 333 PΚ 333 BD 333

LB

GR

333 332

Name: country, dtype: int64

In [15]: capital

#### Out[15]:

	country	value	statistic	total_asked	statistic_type	question
0	AL	I'm not sure	50	372	count	At this time, does this business have a line o
1	AL	No	158	372	count	At this time, does this business have a line o
2	AL	Yes	82	372	count	At this time, does this business have a line o
3	AL	NaN	82	372	count	At this time, does this business have a line o
4	AO	I'm not sure	38	315	count	At this time, does this business have a line o
31745	US	42.92005814	688	688	average	How old are you?
31746	UY	39.15697036	911	911	average	How old are you?
31747	VN	30.33366142	1016	1016	average	How old are you?
31748	ZA	33.31467474	661	661	average	How old are you?
31749	ZM	28.87769784	417	417	average	How old are you?

31750 rows × 6 columns

```
In [16]: #checking the mode of the data in total asked
         capital['total_asked'].mode()[0]
Out[16]: 739
In [17]: #checking the mode of the data in statistic type
         capital['statistic type'].mode()[0]
Out[17]: 'count'
In [18]: #checking the mode of the data in value
         capital['value'].mode()[0]
Out[18]: 'A little well'
In [20]: #checking the mode of the data in statistic
         capital['statistic'].mode()[0]
Out[20]: 1
In [21]: #checking the mode of the data in question
         capital['question'].mode()[0]
Out[21]: 'How well do the following statements describe you?'
```

NameError: name 'business\_capital' is not defined

```
In [22]: # setting my general index to country
           capital.set_index('country')
Out[22]:
                            value statistic total_asked statistic_type
                                                                                                       question
             country
                 AL
                       I'm not sure
                                        50
                                                    372
                                                                count At this time, does this business have a line o...
                 ΑL
                              No
                                       158
                                                    372
                                                                count At this time, does this business have a line o...
                                                    372
                 AL
                              Yes
                                        82
                                                                count At this time, does this business have a line o...
                 AL
                             NaN
                                        82
                                                    372
                                                                count At this time, does this business have a line o...
                                                    315
                 AO
                       I'm not sure
                                        38
                                                                count At this time, does this business have a line o...
                      42.92005814
                                       688
                                                    688
                                                                                               How old are you?
                                                              average
                 UY 39.15697036
                                       911
                                                    911
                                                                                                How old are you?
                                                              average
                      30.33366142
                                                                                               How old are you?
                                      1016
                                                   1016
                                                              average
                 ZA 33.31467474
                                       661
                                                    661
                                                              average
                                                                                                How old are you?
                 ZM 28.87769784
                                                    417
                                                                                               How old are you?
                                       417
                                                              average
           31750 rows × 5 columns
In [29]:
           business capital.csv
            NameError
                                                               Traceback (most recent call last)
           <ipython-input-29-939d35b517af> in <module>
           ----> 1 business capital.csv
```

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```
In [28]: | capital.to csv(r'C:\Users\business capital.csv')
         PermissionError
                                                    Traceback (most recent call last)
         <ipython-input-28-3f3dcbd558cb> in <module>
         ----> 1 capital.to csv(r'C:\Users\business capital.csv')
         ~\anaconda3\lib\site-packages\pandas\core\generic.py in to csv(self, path or buf, sep, na rep, float format, columns,
         header, index, index label, mode, encoding, compression, quoting, quotechar, line terminator, chunksize, date format,
         doublequote, escapechar, decimal)
            3202
                              decimal=decimal.
            3203
         -> 3204
                          formatter.save()
            3205
            3206
                          if path or buf is None:
         ~\anaconda3\lib\site-packages\pandas\io\formats\csvs.py in save(self)
             186
                                  self.mode.
                                  encoding=self.encoding,
             187
                                  compression=dict(self.compression args, method=self.compression),
         --> 188
              189
             190
                              close = True
         ~\anaconda3\lib\site-packages\pandas\io\common.py in get handle(path or buf, mode, encoding, compression, memory map,
         is text)
                          if encoding:
             426
             427
                              # Encoding
                             f = open(path or buf, mode, encoding=encoding, newline="")
          --> 428
             429
                          elif is text:
             430
                              # No explicit encoding
         PermissionError: [Errno 13] Permission denied: 'C:\\Users\\business capital.csv'
```

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## **THANK YOU**