```
In [1]: import numpy as np
        import pandas as pd
In [4]: df = pd.read csv('artwork data (1).csv')
        df
        FileNotFoundError
                                                  Traceback (most recent call l
        ast)
        <ipython-input-4-5d58eccf8f1d> in <module>
        ----> 1 df = pd.read csv('artwork data (1).csv')
              2 df
        ~\anaconda3\lib\site-packages\pandas\io\parsers.py in read csv(filepath
        or buffer, sep, delimiter, header, names, index col, usecols, squeeze,
         prefix, mangle dupe cols, dtype, engine, converters, true values, fals
        e values, skipinitialspace, skiprows, skipfooter, nrows, na values, kee
        p default na, na filter, verbose, skip blank lines, parse dates, infer
        datetime format, keep date col, date parser, dayfirst, cache dates, ite
        rator, chunksize, compression, thousands, decimal, lineterminator, quot
        echar, quoting, doublequote, escapechar, comment, encoding, dialect, er
        ror bad lines, warn bad lines, delim whitespace, low memory, memory ma
        p, float precision)
            684
            685
        --> 686
                    return read(filepath or buffer, kwds)
            687
            688
        ~\anaconda3\lib\site-packages\pandas\io\parsers.py in read(filepath or
        buffer, kwds)
            450
            451
                    # Create the parser.
                    parser = TextFileReader(fp or buf, **kwds)
        --> 452
            453
```

```
454
                    if chunksize or iterator:
        ~\anaconda3\lib\site-packages\pandas\io\parsers.py in init (self, f,
         engine, **kwds)
                            self.options["has index names"] = kwds["has index n
            934
        ames"]
            935
        --> 936
                        self. make engine(self.engine)
            937
            938
                    def close(self):
        ~\anaconda3\lib\site-packages\pandas\io\parsers.py in make engine(sel
        f, engine)
                    def make engine(self, engine="c"):
           1166
                        if engine == "c":
           1167
                            self. engine = CParserWrapper(self.f, **self.option
        -> 1168
        s)
           1169
                        else:
                            if engine == "python":
           1170
        ~\anaconda3\lib\site-packages\pandas\io\parsers.py in init (self, sr
        c, **kwds)
           1996
                        kwds["usecols"] = self.usecols
           1997
                        self. reader = parsers.TextReader(src, **kwds)
        -> 1998
                        self.unnamed cols = self. reader.unnamed cols
           1999
           2000
        pandas\ libs\parsers.pyx in pandas. libs.parsers.TextReader. cinit ()
        pandas\ libs\parsers.pyx in pandas. libs.parsers.TextReader. setup pars
        er source()
        FileNotFoundError: [Errno 2] No such file or directory: 'artwork data
         (1).csv'
        !pip install pandas --upgrade
In [5]:
        Collecting pandas
```

```
Downloading pandas-1.1.2-cp37-cp37m-win amd64.whl (9.4 MB)
         Requirement already satisfied, skipping upgrade: numpy>=1.15.4 in c:\us
         ers\am\anaconda3\lib\site-packages (from pandas) (1.19.1)
         Requirement already satisfied, skipping upgrade: python-dateutil>=2.7.3
         in c:\users\am\anaconda3\lib\site-packages (from pandas) (2.8.1)
         Requirement already satisfied, skipping upgrade: pytz>=2017.2 in c:\use
         rs\am\anaconda3\lib\site-packages (from pandas) (2019.3)
         Requirement already satisfied, skipping upgrade: six>=1.5 in c:\users\a
         m\anaconda3\lib\site-packages (from python-dateutil>=2.7.3->pandas) (1.
         14.0)
         Installing collected packages: pandas
           Attempting uninstall: pandas
             Found existing installation: pandas 1.1.1
             Uninstalling pandas-1.1.1:
               Successfully uninstalled pandas-1.1.1
         ERROR: Could not install packages due to an EnvironmentError: [WinError
         51 Access is denied: 'c:\\users\\am\\anaconda3\\lib\\site-packages\\~an
         das\\ libs\\algos.cp37-win amd64.pyd'
         Consider using the `--user` option or check the permissions.
In [6]: !pip install pandas
         Requirement already satisfied: pandas in c:\users\am\anaconda3\lib\site
         -packages (1.1.2)
         Requirement already satisfied: numpy>=1.15.4 in c:\users\am\anaconda3\l
         ib\site-packages (from pandas) (1.19.1)
         Requirement already satisfied: python-dateutil>=2.7.3 in c:\users\am\an
         aconda3\lib\site-packages (from pandas) (2.8.1)
         Requirement already satisfied: pytz>=2017.2 in c:\users\am\anaconda3\li
         b\site-packages (from pandas) (2019.3)
         Requirement already satisfied: six>=1.5 in c:\users\am\anaconda3\lib\si
         te-packages (from python-dateutil>=2.7.3->pandas) (1.14.0)
In [8]: import pandas as pd
In [11]: df = pd.read csv('artwork data (1).csv')
```

df

C:\Users\AM\anaconda3\lib\site-packages\IPython\core\interactiveshel
l.py:3063: DtypeWarning: Columns (9,13) have mixed types.Specify dtyp
e option on import or set low_memory=False.
 interactivity=interactivity, compiler=compiler, result=result)

Out[11]:

	id	accession_number	artist	artistRole	artistld	title	dateText	med
0	1035	A00001	Blake, Robert	artist	38	A Figure Bowing before a Seated Old Man with h	date not known	Watercol ink, cl and grap on pape
1	1036	A00002	Blake, Robert	artist	38	Two Drawings of Frightened Figures, Probably f	date not known	Graphite pa
2	1037	A00003	Blake, Robert	artist	38	The Preaching of Warning. Verso: An Old Man En	?c.1785	Graphite pa Ve graphite pe
3	1038	A00004	Blake, Robert	artist	38	Six Drawings of Figures with Outstretched Arms	date not known	Graphite pa
4	1039	A00005	Blake, William	artist	39	The Circle of the Lustful: Francesca da Rimini	1826–7, reprinted 1892	l engra on pa

		id	accession_number	artist	artistRole	artistld	title	dateText	med
	69196	122960	T13865	P- Orridge, Genesis	artist	16646	Larvae (from Tampax Romana)	1975	Persi Wo hairpio tampon hur bl
	69197	122961	T13866	P- Orridge, Genesis	artist	16646	Living Womb (from Tampax Romana)	1976	Wo Persj pla photogr on paper
	69198	121181	T13867	Hatoum, Mona	artist	2365	Present Tense	1996	Soap glass be
	69199	112306	T13868	Creed, Martin	artist	2760	Work No. 227: The lights going on and off	2000	Gal ligh
	69200	127035	T13869	Brunias, Agostino	artist	3824	Dancing Scene in the West Indies	1764–96	Oil pain car
	69201 r	ows × 20) columns						~
	4								>
In [12]:	df = I	pd.read	_csv('artwork_	data (1).csv',	index_0	col = 0)		
	y:3063 ion or	3: Dtyp n impor	anaconda3\lib\ eWarning: Colu t or set low_m ity=interactiv	mns (9, emory=F	13) have alse.	mixed	types.Spe	cify dty	
Out[12]:									

	accession_number	artist	artistRole	artistld	title	dateText	medium	crec
id								
1035	A00001	Blake, Robert	artist	38	A Figure Bowing before a Seated Old Man with h	date not known	Watercolour, ink, chalk and graphite on paper	Pre Ric
1036	A00002	Blake, Robert	artist	38	Two Drawings of Frightened Figures, Probably f	date not known	Graphite on paper	Pre Ric
1037	A00003	Blake, Robert	artist	38	The Preaching of Warning. Verso: An Old Man En	?c.1785	Graphite on paper. Verso: graphite on paper	Pre Ric
1038	A00004	Blake, Robert	artist	38	Six Drawings of Figures with Outstretched Arms	date not known	Graphite on paper	Pre Ric
1039	A00005	Blake, William	artist	39	The Circle of the Lustful: Francesca da Rimini	1826–7, reprinted 1892	Line engraving on paper	Purc w assi of a :
122960	T13865	P- Orridge, Genesis	artist	16646	Larvae (from Tampax Romana)	1975	Perspex, Wood, hairpiece, tampon and human blood	Trans fro

	accession_number	artist	artistRole	artistld	title	dateText	medium	crec
id								
122961	T13866	P- Orridge, Genesis	artist	16646	Living Womb (from Tampax Romana)		Wood, Perspex, plastic, photograph on paper, t	Tran: fro
121181	T13867	Hatoum, Mona	artist	2365	Present Tense	1996	Soap and glass beads	Pre t Me
112306	T13868	Creed, Martin	artist	2760	Work No. 227: The lights going on and off	2000	Gallery lighting	Purc with provi Mem
127035	T13869	Brunias, Agostino	artist	3824	Dancing Scene in the West Indies	1764–96	Oil paint on canvas	Purc assi fro F
69201 rc	ows × 19 columns	-						•
df = p	d.read_csv(' <mark>a</mark> r	twork_da	ata (1).d	CSV', I	nrows = 5,	index_	col = 'id')
a id	ccession_number	artist art	istRole art	istId	title da	ateText	medium cr	editLin
1035	Δ()()()()	Blake, Robert	artist		A Figure Bowing before a Seated Old an with h	late not known an	ink, chalk	resente by Mi Joh ichmon 192

In [13]:

Out[13]:

		accession	_number	artist	artistRole	artistld	title	dateText	medium	creditLin
	id									
	1036		A00002	Blake, Robert	artist	38	Two Drawings of Frightened Figures, Probably f	date not known	Graphite on paper	Presente by Mi Joh Richmon 192
	1037		A00003	Blake, Robert	artist	38	The Preaching of Warning. Verso: An Old Man En	?c.1785	Graphite on paper. Verso: graphite on paper	Presente by Mi Joh Richmon 192
	1038		A00004	Blake, Robert	artist	38	Six Drawings of Figures with Outstretched Arms	date not known	Graphite on paper	Presente by Mr Joh Richmon 192
	1039		A00005	Blake, William	artist	39	The Circle of the Lustful: Francesca da Rimini	1826–7, reprinted 1892	Line engraving on paper	Purchase with th assistanc of specia gra.
	4									>
In [15]:							, nrows = edium', 'a			
Out[15]:		artistld				itle		med	ium acquisit	ionVoar
	id	artistiu			•	itie		illeu	ium acquisit	ioirrear
	1035	38 A	Figure Bo	wing befo	re a Seated		Watercolou	r, ink, chalk hite on pape		1922
	1036	38	Гwo Drawir	ngs of Frig	htened Figur Probably	es,		aphite on pa		1922

	artistId		title	medium	acquisitionYear
	id				
	1037	38	The Preaching of Warning. Verso: An Old Man En	Graphite on paper. Verso: graphite on paper	1922
	1038	38	Six Drawings of Figures with Outstretched Arms	Graphite on paper	1922
	1039	39	The Circle of the Lustful: Francesca da Rimini	Line engraving on paper	1919
In []: [