Bridge The Gap 2 (Data Science) ¶

Atharva Taras (TE A - 73)

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

1. Check the head of the DataFrame.

Out[2]:

Provid	CC Security Code	CC Exp Date	Credit Card	Company	Browser Info	AM or PM	Lot	Address	
JCB d	900	02/20	6011929061123406	Martinez- Herman	Opera/9.56. (X11; Linux x86_64; sl- SI) Presto/2	PM	46 in	16629 Pace Camp Apt. 448\nAlexisborough, NE 77	0
Masterca	561	11/18	3337758169645356	Fletcher, Richards and Whitaker	Opera/8.93. (Windows 98; Win 9x 4.90; en- US) Pr	PM	28 rn	9374 Jasmine Spurs Suite 508\nSouth John, TN 8	1
JCB d	699	08/19	675957666125	Simpson, Williams and Pham	Mozilla/5.0 (compatible; MSIE 9.0; Windows NT	PM	94 vE	Unit 0065 Box 5052\nDPO AP 27450	2
Disco [,]	384	02/24	6011578504430710	Williams, Marshall and Buchanan	Mozilla/5.0 (Macintosh; Intel Mac OS X 10_8_0	PM	36 vm	7780 Julia Fords\nNew Stacy, WA 45798	3
Din Clu Ca Bland	678	10/25	6011456623207998	Brown, Watson and Andrews	Opera/9.58. (X11; Linux x86_64; it- IT) Presto/2	АМ	20 IE	23012 Munoz Drive Suite 337\nNew Cynthia, TX 5	4
•									4

2. How many rows and columns are there?

```
In [3]: 1 print(f'There are {data.shape[0]} Rows and {data.shape[1]} Columns in this or
```

There are 10000 Rows and 14 Columns in this dataset.

3. What is the average Purchase Price?

```
In [4]: 1 avg = sum(data['Purchase Price'])/len(data['Purchase Price'])
2 print(f'Average Purchase Price is {round(avg, 2)} $')
```

Average Purchase Price is 50.35 \$

4. What were the highest and lowest purchase prices?

```
In [5]: 1 print('Highest Purchase Price - {}\nLowest Purchase Price - {}\.format(max(omin(o)))
Highest Purchase Price - 99.99
Lowest Purchase Price - 0.0
```

5. How many people have English 'en' as their Language of choice on the website?

```
In [6]: 1 print('{} people have English "en" as their choice.'.format(data['Language']
1098 people have English "en" as their choice.
```

6. How many people have the job title of "Lawyer"

```
In [7]: 1 print('{} people are lawyers.'.format(data['Job'].str.count('Lawyer').sum())
30 people are lawyers.
```

7. How many people made the purchase during the AM and how many people made the purchase during PM?

```
In [8]: 1 print('{} people made purchase during AM and {} made purchase during PM'.for
```

4932 people made purchase during AM and 5068 made purchase during PM

8. What are the 5 most common Job Titles?

9. Someone made a purchase that came from Lot: "90 WT", what was the Purchase Price for this transaction?

```
In [10]: 1 price = data[(data['Lot'] == '90 WT')]['Purchase Price'].item()
2 print('Purchase price for lot 90 WT is ${}'.format(price))
```

Purchase price for lot 90 WT is \$75.1

10. What is the email of the person with the following Credit Card Number: 4926535242672853

Email of that person is bondellen@williams-garza.com

11. How many people have American Express as their Credit Card Provider and made a purchase above \$95 ?

39 people use American Express and have purchase price above \$95

12. How many people have a credit card that expires in 2025?

1033 cards expire in 2025

13. What are the top 5 most popular email providers/hosts (e.g. gmail.com, yahoo.com, etc...)

The top 5 email providers are -

```
1 yahoo.com
2 reed.com
3 morales-harrison.com
4 olson-robinson.info
5 gmail.com
```