

# Module 5: Data Visualisation

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## Case Study Solution

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## Case Study Solution

1. You are given a dataset, which is present in the LMS, containing the number of hurricanes occurring in the United States along the coast of the Atlantic. Load the data from the dataset into your program and plot a Bar Graph of the data, taking the Year as the x-axis and the number of hurricanes occurring as the Y-axis.

### Solution

```
import matplotlib.pyplot as plt, pandas
```

```
df = pandas.read_csv('D:\Datasets\Hurricanes.csv', delimiter=',')  
print(df)  
plt.bar(df["Year"], df["Hurricanes"])  
plt.show()
```

2. The dataset given, records data of city temperatures over the years 2014 and 2015. Plot the histogram of the temperatures over this period for the cities of San Francisco and Moscow.

### Solution

```
import matplotlib.pyplot as plt, pandas
```

```
df = pandas.read_csv('D:\Datasets\CityTemps.csv', delimiter=',')  
plt.hist(df["San Francisco"], df["Melbourne"])  
plt.show()
```

3. Plot a pie-chart of the number of models released by every manufacturer, recorded in the data provide. Also mention the name of the manufacture with the largest releases.

## Solution

```
import matplotlib.pyplot as plt, pandas
```

```
df = pandas.read_csv('D:\Datasets\Cars2015.csv', delimiter=',')  
plt.figure(10, 10)
```

4. Create csv file from the data below and read in pandas data frame

### Phase 1 -Reading Data

### Phase 2 –Describe the data

Describe the data on the **unit price**

### Phase 3 –filter the data

Create new dataframe having columns 'name','net\_price','date' and group all the records according to name

### Phase 4 –Plotting graph

Plot the graph after calculating total sales by each customer. Customer name should be on x axis and total sales in y axis.

account_number	name	item_code	category	quantity	unit price	net_price	date
296809	Carroll PLC	QN-82852	Belt	13	44.48	578.24	2014-09-27 07:13:03
098022	Heidenreich-Bosco	MJ-21460	Shoes	19	53.62	1018.78	2014-07-29 02:10:44
563905	"Kerluke, Reilly and Bechtelar"	AS-93055	Shirt	12	24.16	289.92	2014-03-01 10:51:24
093356	Waters-Walker	AS-93055	Shirt	5	82.68	413.40	2013-11-17 20:41:11
659366	Waelchi-Fahey	AS-93055	Shirt	18	99.64	1793.52	2014-01-03 08:14:27
563905	"Kerluke, Reilly and Bechtelar"	AS-93055	Shirt	17	52.82	897.94	2013-12-04 02:07:05
995267	Cole-Eichmann	GS-86623	Shoes	18	15.28	275.04	2014-04-09 16:15:03
524021	Hegmann and Sons	LL-46261	Shoes	7	78.78	551.46	2014-06-18 19:25:10
929400	"Senger, Upton and Breitenberg"	LW-86841	Shoes	17	38.19	649.23	2014-02-10 05:55:56
563905	"Kerluke, Reilly and Bechtelar"	KV-99194	Shirt	12	26.98	323.76	2014-05-20 00:21:28
995267	Cole-Eichmann	KV-99194	Shirt	19	60.22	1144.18	2014-03-10 06:23:31
524021	Hegmann and Sons	QN-82852	Belt	6	13.12	78.72	2013-11-03 18:38:16
758133	"Kihn, McClure and Denesik"	LL-46261	Shoes	4	59.69	238.76	2014-01-11 21:48:28
555594	"Ernser, Cruickshank and Lind"	FK-71853	Shirt	12	97.25	1167.00	2014-09-19 13:20:00

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 524021,Hegmann and Sons,FK-71853,Shirt,10,71.89,718.90,2014-09-11 00:45:37



929400,"Senger, Upton and Breitenberg",MJ-21460,Shoes,10,13.02,130.20,2014-06-30 10:31:23  
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734922,Berge LLC,FK-71853,Shirt,17,49.12,835.04,2014-02-24 20:49:28  
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 115138,Gorczyany-Hahn,AS-93055,Shirt,9,14.71,132.39,2014-03-01 13:31:22  
 995267,Cole-Eichmann,GS-86623,Shoes,2,43.85,87.70,2014-06-09 21:31:11  
 563905,"Kerluke, Reilly and Bechtelar",LW-86841,Shoes,9,52.42,471.78,2014-05-22 11:49:32  
 098022,Heidenreich-Bosco,QN-82852,Belt,15,20.07,301.05,2014-06-27 12:15:09  
 659366,Waelchi-Fahey,QN-82852,Belt,17,56.27,956.59,2014-02-09 14:52:49  
 098022,Heidenreich-Bosco,QN-82852,Belt,8,79.20,633.60,2014-06-07 18:59:21  
 555594,"Ernser, Cruickshank and Lind",MJ-21460,Shoes,7,97.93,685.51,2014-04-05 00:29:44  
 524021,Hegmann and Sons,QN-82852,Belt,8,49.06,392.48,2014-05-03 20:50:41  
 750461,"Volkman, Goyette and Lemke",GS-86623,Shoes,5,62.46,312.30,2014-05-13 14:52:47  
 305803,"Davis, Kshlerin and Reilly",FK-71853,Shirt,20,11.96,239.20,2014-09-04 18:27:56  
 201259,Koelpin PLC,KV-99194,Shirt,12,91.33,1095.96,2014-03-01 09:46:48  
 115138,Gorczyany-Hahn,WJ-02096,Belt,3,93.50,280.50,2014-08-25 21:36:41  
 098022,Heidenreich-Bosco,GS-86623,Shoes,19,26.88,510.72,2014-04-07 07:12:29  
 555594,"Ernser, Cruickshank and Lind",MJ-21460,Shoes,8,49.15,393.20,2014-10-12 21:49:47  
 098022,Heidenreich-Bosco,WJ-02096,Belt,7,52.04,364.28,2013-11-07 19:58:39  
 995267,Cole-Eichmann,KV-99194,Shirt,13,97.04,1261.52,2014-06-17 08:28:31  
 555594,"Ernser, Cruickshank and Lind",AS-93055,Shirt,6,29.88,179.28,2014-09-04 14:54:23  
 524021,Hegmann and Sons,KV-99194,Shirt,6,62.36,374.16,2014-01-07 03:14:00  
 524021,Hegmann and Sons,AS-93055,Shirt,15,88.44,1326.60,2014-10-15 01:54:05  
 711951,Kilback-Gerlach,KV-99194,Shirt,16,79.71,1275.36,2014-08-30 06:23:27  
 676847,Hamill-Hackett,LW-86841,Shoes,11,96.57,1062.27,2014-01-09 13:36:39  
 296809,Carroll PLC,VG-32047,Shirt,12,79.85,958.20,2014-01-16 11:38:27  
 093356,Waters-Walker,AS-93055,Shirt,2,47.74,95.48,2014-03-22 02:00:16  
 995267,Cole-Eichmann,KV-99194,Shirt,18,97.33,1751.94,2014-01-16 12:27:14

676847,Hamill-Hackett,FK-71853,Shirt,18,98.39,1771.02,2014-01-06 08:14:31  
 995267,Cole-Eichmann,LL-46261,Shoes,2,94.06,188.12,2013-12-16 21:29:38  
 929400,"Senger, Upton and Breitenberg",LL-46261,Shoes,11,19.17,210.87,2013-10-26 13:17:07  
 305803,"Davis, Kshlerin and Reilly",GS-86623,Shoes,18,20.74,373.32,2013-10-22 20:01:38  
 995267,Cole-Eichmann,AS-93055,Shirt,7,80.69,564.83,2014-01-10 21:42:10  
 093356,Waters-Walker,AS-93055,Shirt,15,84.23,1263.45,2014-07-18 04:09:08  
 524021,Hegmann and Sons,GS-86623,Shoes,9,39.14,352.26,2013-11-17 23:11:28  
 929400,"Senger, Upton and Breitenberg",VG-32047,Shirt,10,67.36,673.60,2013-11-02 03:09:24  
 734922,Berge LLC,VG-32047,Shirt,14,93.45,1308.30,2014-02-10 07:13:32  
 201259,Koelpin PLC,LL-46261,Shoes,8,62.68,501.44,2013-11-10 16:34:17  
 555594,"Ernser, Cruickshank and Lind",QN-82852,Belt,13,86.33,1122.29,2013-10-23 02:35:36  
 711951,Kilback-Gerlach,GS-86623,Shoes,1,25.23,25.23,2014-02-15 18:56:38  
 555594,"Ernser, Cruickshank and Lind",KV-99194,Shirt,14,93.56,1309.84,2014-10-21 14:14:21  
 296809,Carroll PLC,LW-86841,Shoes,19,22.36,424.84,2014-07-08 00:03:47  
 711951,Kilback-Gerlach,LW-86841,Shoes,13,72.82,946.66,2014-02-10 18:44:09  
 098022,Heidenreich-Bosco,AS-93055,Shirt,4,22.33,89.32,2014-05-22 10:55:51  
 929400,"Senger, Upton and Breitenberg",MJ-21460,Shoes,5,41.67,208.35,2013-12-04 08:24:01  
 296809,Carroll PLC,MJ-21460,Shoes,13,29.69,385.97,2014-03-25 09:03:04  
 758133,"Kihn, McClure and Denesik",GS-86623,Shoes,20,20.83,416.60,2014-09-07 19:59:58  
 524021,Hegmann and Sons,LW-86841,Shoes,12,96.49,1157.88,2014-08-24 02:46:41  
 758133,"Kihn, McClure and Denesik",WJ-02096,Belt,15,51.35,770.25,2014-05-13 12:39:44  
 563905,"Kerluke, Reilly and Bechtelar",GS-86623,Shoes,16,90.96,1455.36,2013-11-02 09:19:40  
 711951,Kilback-Gerlach,LW-86841,Shoes,12,22.81,273.72,2014-09-17 02:46:57  
 093356,Waters-Walker,AS-93055,Shirt,19,28.76,546.44,2013-12-19 19:43:07  
 098022,Heidenreich-Bosco,VG-32047,Shirt,2,35.71,71.42,2014-07-03 03:16:33  
 296809,Carroll PLC,LL-46261,Shoes,9,32.75,294.75,2014-02-08 10:48:21  
 758133,"Kihn, McClure and Denesik",LW-86841,Shoes,2,92.23,184.46,2014-02-18 03:57:38  
 524021,Hegmann and Sons,MJ-21460,Shoes,12,18.24,218.88,2014-05-01 16:46:03  
 305803,"Davis, Kshlerin and Reilly",AS-93055,Shirt,6,49.81,298.86,2013-11-01 16:31:25  
 304860,Huel-Haag,QN-82852,Belt,2,22.38,44.76,2014-01-23 23:47:01  
 929400,"Senger, Upton and Breitenberg",QN-82852,Belt,10,25.65,256.50,2013-12-20 14:10:18  
 299771,"Kuphal, Zieme and Kub",QN-82852,Belt,12,37.50,450.00,2013-12-30 04:04:50  
 115138,Gorczyany-Hahn,VG-32047,Shirt,20,72.35,1447.00,2014-08-11 19:02:14  
 758133,"Kihn, McClure and Denesik",LL-46261,Shoes,2,48.21,96.42,2014-09-16 16:12:02  
 711951,Kilback-Gerlach,VG-32047,Shirt,1,91.96,91.96,2013-10-23 15:08:31  
 929400,"Senger, Upton and Breitenberg",GS-86623,Shoes,7,62.27,435.89,2013-12-30 01:55:14  
 093356,Waters-Walker,KV-99194,Shirt,20,99.74,1994.80,2014-04-18 15:39:12  
 098022,Heidenreich-Bosco,QN-82852,Belt,15,82.82,1242.30,2014-03-27 04:42:40  
 734922,Berge LLC,GS-86623,Shoes,8,85.04,680.32,2014-02-26 14:43:51  
 995267,Cole-Eichmann,LW-86841,Shoes,10,73.24,732.40,2014-06-07 10:04:53  
 093356,Waters-Walker,AS-93055,Shirt,9,68.62,617.58,2014-08-12 08:06:21  
 304860,Huel-Haag,QN-82852,Belt,1,57.33,57.33,2014-08-27 11:27:28  
 850140,Kunze Inc,KV-99194,Shirt,9,27.16,244.44,2014-02-08 06:22:34  
 659366,Waelchi-Fahey,LW-86841,Shoes,10,56.56,565.60,2014-10-01 11:38:04  
 296809,Carroll PLC,WJ-02096,Belt,20,14.37,287.40,2014-07-20 17:22:03  
 758133,"Kihn, McClure and Denesik",WJ-02096,Belt,11,60.50,665.50,2014-08-03 10:39:51  
 850140,Kunze Inc,GS-86623,Shoes,16,19.66,314.56,2014-05-03 21:18:15  
 093356,Waters-Walker,GS-86623,Shoes,13,90.95,1182.35,2014-06-14 12:43:51  
 304860,Huel-Haag,LL-46261,Shoes,9,98.22,883.98,2014-07-26 01:10:57  
 098022,Heidenreich-Bosco,LW-86841,Shoes,14,74.83,1047.62,2014-06-27 05:58:33



## Solution

*#Phase 1*

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
sales=pd.read_csv("sample-salesv2.csv",parse_dates=['date'])
print(sales.head())
```

*#phase 2*

```
print(sales['unit price'].describe())
```

*#phase 3*

```
customers = sales[['name','net_price','date']]
customer_group = customers.groupby('name')
print(customer_group.size())
```

*#Phase 4*

```
sales_totals = customer_group.sum()
#sales_totals.sort(columns='ext price').head()
my_plot = sales_totals.plot(kind='bar')
plt.show()
```

5. Let the x axis data points and y axis data points are

X = [1,2,3,4]

y = [20, 21, 20.5, 20.8]

5.1: Draw a Simple plot

5.2: Configure the line and markers in simple plot

5.3: configure the axes

5.4: Give title of Graph & labels of x axis and y axis

5.5: Give error bar if y\_error = [0.12, 0.13, 0.2, 0.1]

5.6: define width, height as figsize=(4,5) DPI and adjust plot dpi=100

5.7: Give a font size of 14

5.8: Draw a scatter graph of any 50 random values of x and y axis

5.9: Create a dataframe from following data

'first\_name': ['Jason', 'Molly', 'Tina', 'Jake', 'Amy'],

'last\_name': ['Miller', 'Jacobson', 'Ali', 'Milner', 'Cooze'],



```
'female': [0, 1, 1, 0, 1],  
'age': [42, 52, 36, 24, 73],  
'preTestScore': [4, 24, 31, 2, 3],  
'postTestScore': [25, 94, 57, 62, 70]
```

Draw a Scatterplot of preTestScore and postTestScore, with the size of each point determined by age

5.10: Draw a Scatterplot from the data in question 9 of preTestScore and postTestScore with the size = 300 and the color determined by sex

## Solution

*#Answer – 5.1*

*#import matplotlib library*

**import** pandas **as** pd

**import** matplotlib.pyplot **as** plt

*#define some data*

x = [1,2,3,4]

y = [20, 21, 20.5, 20.8]

*#plot data*

plt.plot(x, y)

*#show plot*

plt.show()

*#Answer – 5.2*

*#import matplotlib library*

**import** matplotlib.pyplot **as** plt

*#define some data*

x = [1,2,3,4]

y = [20, 21, 20.5, 20.8]

*#plot data*

plt.plot(x, y, linestyle="**dashed**", marker="**o**", color="**green**")

*#show plot*

plt.show()

*#Answer – 5.3*

```
#import matplotlib library
import matplotlib.pyplot as plt

#define some data
x = [1,2,3,4]
y = [20, 21, 20.5, 20.8]

#plot data
plt.plot(x, y, linestyle="dashed", marker="o", color="green")

#configure X axes
plt.xlim(0.5,4.5)
plt.xticks([1,2,3,4])

#configure Y axes
plt.ylim(19.8,21.2)
plt.yticks([20, 21, 20.5, 20.8])

#show plot
plt.show()
```

*#Answer – 5.4*

```
#import matplotlib library
import matplotlib.pyplot as plt

#define some data
x = [1,2,3,4]
y = [20, 21, 20.5, 20.8]

#plot data
plt.plot(x, y, linestyle="dashed", marker="o", color="green")

#configure X axes
plt.xlim(0.5,4.5)
plt.xticks([1,2,3,4])

#configure Y axes
plt.ylim(19.8,21.2)
plt.yticks([20, 21, 20.5, 20.8])

#labels
plt.xlabel("this is X")
```

```
plt.ylabel("this is Y")
```

```
#title
```

```
plt.title("Simple plot")
```

```
#show plot
```

```
plt.show()
```

```
#Answer – 5.5
```

```
#import matplotlib library
```

```
import matplotlib.pyplot as plt
```

```
#define some data
```

```
x = [1,2,3,4]
```

```
y = [20, 21, 20.5, 20.8]
```

```
#error data
```

```
y_error = [0.12, 0.13, 0.2, 0.1]
```

```
#plot data
```

```
plt.plot(x, y, linestyle="dashed", marker="o", color="green")
```

```
#plot only errorbars
```

```
plt.errorbar(x, y, yerr=y_error, linestyle="None", marker="None", color="green")
```

```
#configure X axes
```

```
plt.xlim(0.5,4.5)
```

```
plt.xticks([1,2,3,4])
```

```
#configure Y axes
```

```
plt.ylim(19.8,21.2)
```

```
plt.yticks([20, 21, 20.5, 20.8])
```

```
#labels
```

```
plt.xlabel("this is X")
```

```
plt.ylabel("this is Y")
```

```
#title
```

```
plt.title("Simple plot")
```

```
#show plot
```

```
plt.show()
```

*#Answer – 5.6*

*#import matplotlib library*

**import** matplotlib.pyplot **as** plt

*#define plot size in inches (width, height) & resolution(DPI)*

fig = plt.figure(figsize=(4, 5), dpi=100)

*#define some data*

x = [1,2,3,4]

y = [20, 21, 20.5, 20.8]

*#error data*

y\_error = [0.12, 0.13, 0.2, 0.1]

*#plot data*

plt.plot(x, y, linestyle="**dashed**", marker="**o**", color="**green**")

*#plot only errorbars*

plt.errorbar(x, y, yerr=y\_error, linestyle="**None**", marker="**None**", color="**green**")

*#configure X axes*

plt.xlim(0.5,4.5)

plt.xticks([1,2,3,4])

*#configure Y axes*

plt.ylim(19.8,21.2)

plt.yticks([20, 21, 20.5, 20.8])

*#labels*

plt.xlabel("**this is X**")

plt.ylabel("**this is Y**")

*#title*

plt.title("**Simple plot**")

*#adjust plot*

plt.subplots\_adjust(left=0.18)

*#show plot*

plt.show()

*#Answer – 5.7*

```
#import matplotlib library
import matplotlib.pyplot as plt

#define plot size in inches (width, height) & resolution(DPI)
fig = plt.figure(figsize=(4, 5), dpi=100)

#define font size
plt.rc("font", size=14)

#define some data
x = [1,2,3,4]
y = [20, 21, 20.5, 20.8]

#error data
y_error = [0.12, 0.13, 0.2, 0.1]

#plot data
plt.plot(x, y, linestyle="dashed", marker="o", color="green")

#plot only errorbars
plt.errorbar(x, y, yerr=y_error, linestyle="None", marker="None", color="green")

#configure X axes
plt.xlim(0.5,4.5)
plt.xticks([1,2,3,4])

#configure Y axes
plt.ylim(19.8,21.2)
plt.yticks([20, 21, 20.5, 20.8])

#labels
plt.xlabel("this is X")
plt.ylabel("this is Y")

#title
plt.title("Simple plot")

#adjust plot
plt.subplots_adjust(left=0.19)

#show plot
plt.show()

#Answer 5.8
import numpy as np
```



```

import matplotlib.pyplot as plt
N = 50
x = np.random.rand(N)
y = np.random.rand(N)
colors = np.random.rand(N)
area = np.pi * (15 * np.random.rand(N))**2 # 0 to 15 point radii
plt.scatter(x, y, s=area, c=colors, alpha=0.5)
plt.show()

```

*#Answer 5.9*

```

raw_data = {'first_name': ['Jason', 'Molly', 'Tina', 'Jake', 'Amy'],
            'last_name': ['Miller', 'Jacobson', 'Ali', 'Milner', 'Cooze'],
            'female': [0, 1, 1, 0, 1],
            'age': [42, 52, 36, 24, 73],
            'preTestScore': [4, 24, 31, 2, 3],
            'postTestScore': [25, 94, 57, 62, 70]}
df = pd.DataFrame(raw_data, columns = ['first_name', 'last_name', 'age', 'female',
'preTestScore', 'postTestScore'])
print(df.head(3))
plt.scatter(df.preTestScore, df.postTestScore, s=df.age)

```

*#Answer 5.10*

```

plt.scatter(df.preTestScore, df.postTestScore, s=300, c=df.female)

```