

UScereal

October 11, 2023

1. Importing the Dataset

```
[ ]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
cereal=pd.read_csv("C:/Users/91939/Desktop/1st-MCA/python/ESEComp3/Q1/UScereal.
↳CSV")
```

2. Summary statistics

```
[ ]: cereal.describe()
```

```
[ ]:
```

	calories	protein	fat	sodium	fibre	carbo \
count	65.000000	65.000000	65.000000	65.000000	65.000000	65.000000
mean	149.408615	3.684000	1.422462	237.838308	3.870923	19.967538
std	62.411936	2.642821	1.647561	130.629537	6.133094	8.468190
min	50.000000	0.750000	0.000000	0.000000	0.000000	10.530000
25%	110.000000	2.000000	0.000000	180.000000	0.000000	15.000000
50%	134.330000	3.000000	1.000000	232.000000	2.000000	18.670000
75%	179.100000	4.480000	2.000000	290.000000	4.480000	22.390000
max	440.000000	12.120000	9.090000	787.880000	30.300000	68.000000

	sugars	shelf	potassium
count	65.000000	65.000000	65.000000
mean	10.051077	2.169231	159.119692
std	5.835252	0.839815	180.288575
min	0.000000	1.000000	15.000000
25%	4.000000	1.000000	45.000000
50%	12.000000	2.000000	96.590000
75%	14.000000	3.000000	220.000000
max	20.900000	3.000000	969.700000

```
[ ]: cereal.shape
```

```
[ ]: (65, 12)
```

Info of the dataset

```
[ ]: cereal.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 65 entries, 0 to 64
Data columns (total 12 columns):
#   Column      Non-Null Count  Dtype
---  -
0   Name        65 non-null    object
1   mfr         65 non-null    object
2   calories    65 non-null    float64
3   protein     65 non-null    float64
4   fat         65 non-null    float64
5   sodium      65 non-null    float64
6   fibre       65 non-null    float64
7   carbo       65 non-null    float64
8   sugars      65 non-null    float64
9   shelf       65 non-null    int64
10  potassium   65 non-null    float64
11  vitamins    65 non-null    object
dtypes: float64(8), int64(1), object(3)
memory usage: 6.2+ KB
```

From the above summary we can see that there are no empty fields / missing values

checking the structure and sample of how the dataset looks

```
[ ]: cereal.head(n=5)
```

```
[ ]:
      Name mfr  calories  protein   fat  sodium  fibre \
0  100% Bran   N    212.12    12.12  3.03   393.94  30.30
1   All-Bran   K    212.12    12.12  3.03   787.88  27.27
2 All-Bran with Extra Fiber K    100.00     8.00  0.00   280.00  28.00
3  Apple Cinnamon Cheerios  G    146.67     2.67  2.67   240.00   2.00
4   Apple Jacks   K    110.00     2.00  0.00   125.00   1.00

      carbo  sugars  shelf  potassium  vitamins
0   15.15   18.18     3     848.48  enriched
1   21.21   15.15     3     969.70  enriched
2   16.00    0.00     3     660.00  enriched
3   14.00   13.33     1      93.33  enriched
4   11.00   14.00     2      30.00  enriched
```

All unique manufacturers

```
[ ]: cereal['mfr'].unique()
```

```
[ ]: array(['N', 'K', 'G', 'R', 'P', 'Q'], dtype=object)
```

3. finding the average protein values of unique manufacturer

```
[ ]: mfrs=cereal
mfrs=mfrs.drop(columns="Name")
mfrs=mfrs.drop(columns="vitamins")
mfrs.groupby(['mfr']).mean()
```

```
[ ]:      calories  protein      fat      sodium      fibre      carbo \
mfr
G      137.788182  2.885000  1.784545  240.393636   1.648636  17.693636
K      149.671429  3.919048  1.023333  242.789524   5.068571  19.796190
N      160.260000  7.026667  1.010000  131.313333  13.583333  24.453333
P      194.758889  4.698889  1.782222  253.732222   5.375556  24.281111
Q      135.850000  3.460000  1.932000  201.442000   1.598000  17.382000
R      124.852000  2.604000  0.596000  277.502000   2.356000  22.822000

      sugars      shelf      potassium
mfr
G      10.051364  2.136364  109.196818
K      10.798095  2.285714  184.959524
N       6.060000  1.666667  412.180000
P      12.712222  2.444444  203.874444
Q       9.592000  2.400000   93.692000
R       4.976000  1.400000  103.286000
```

The above table displays the average values protein and sodium and other specifications of unique manufacturers

4. finding the name of the cereal with high sugar from the manufacturer G

```
[ ]: hs=cereal
hsmfr=hs[hs['mfr']=='G']
hsmfr
hsmfr['sugars'].max()
print(hsmfr.groupby(['sugars']).min())
```

```
      Name mfr  calories  protein  fat  sodium  fibre \
sugars
0.80      Cheerios  G      88.00    4.80  1.60  232.00   1.60
2.00              Kix  G      73.33    1.33  0.67  173.33   0.00
3.00    Total Corn Flakes  G     100.00    2.00  1.00  200.00   0.00
4.00              Triples  G     146.67    2.67  1.33  333.33   0.00
6.00    Multi-Grain Cheerios  G     100.00    2.00  1.00  220.00   2.00
10.67             Basic 4  G     146.67    2.67  1.33  266.67   1.33
12.00    Cinnamon Toast Crunch  G     110.00    1.00  1.00  140.00   0.00
13.00             Cocoa Puffs  G     110.00    1.00  1.00  180.00   0.00
13.33  Apple Cinnamon Cheerios  G     133.33    2.67  1.33  186.67   2.00
14.00              Clusters  G     140.00    3.00  1.00  190.00   4.00
16.00      Raisin Nut Bran  G     200.00    6.00  4.00  280.00   5.00
20.00    Oatmeal Raisin Crisp  G     260.00    6.00  4.00  340.00   3.00
```

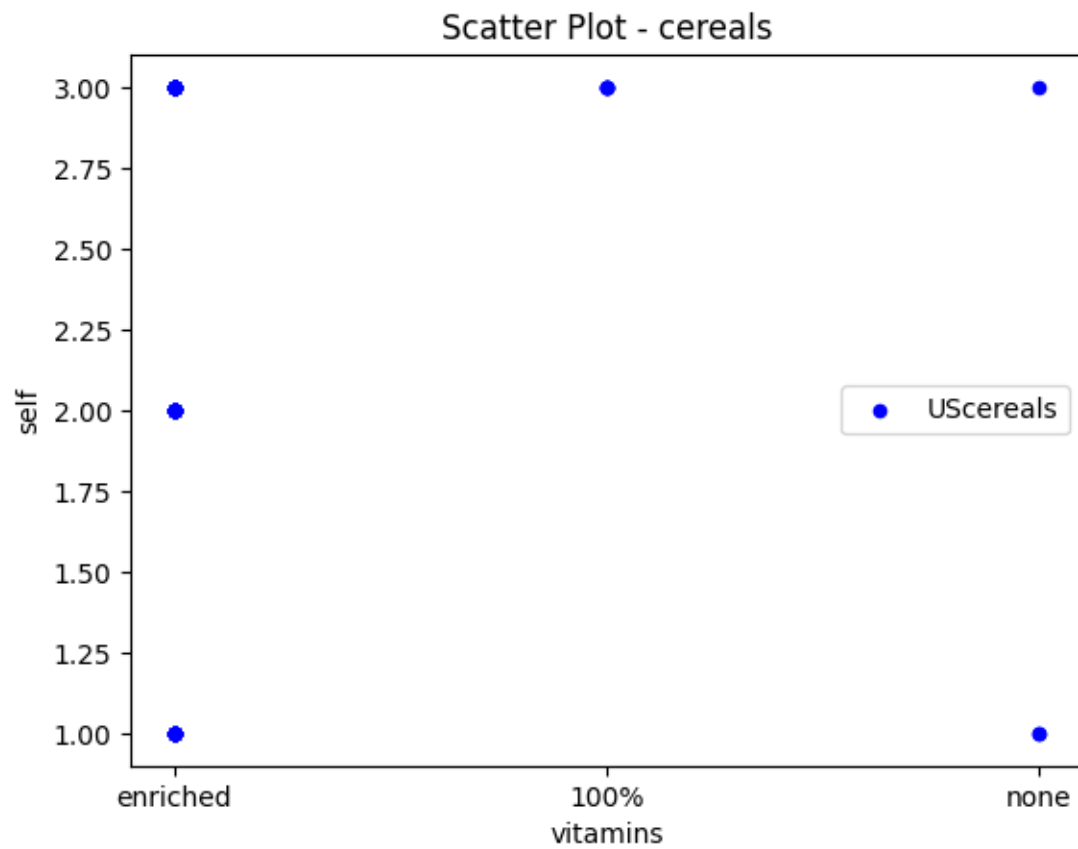
	carbo	shelf	potassium	vitamins
sugars				
0.80	13.60	1	84.00	enriched
2.00	14.00	2	26.67	enriched
3.00	16.00	1	35.00	100%
4.00	28.00	3	80.00	enriched
6.00	15.00	1	90.00	enriched
10.67	21.33	1	80.00	enriched
12.00	12.00	2	25.00	enriched
13.00	12.00	2	55.00	enriched
13.33	14.00	1	93.33	enriched
14.00	15.00	3	210.00	100%
16.00	21.00	3	280.00	enriched
20.00	27.00	3	240.00	enriched

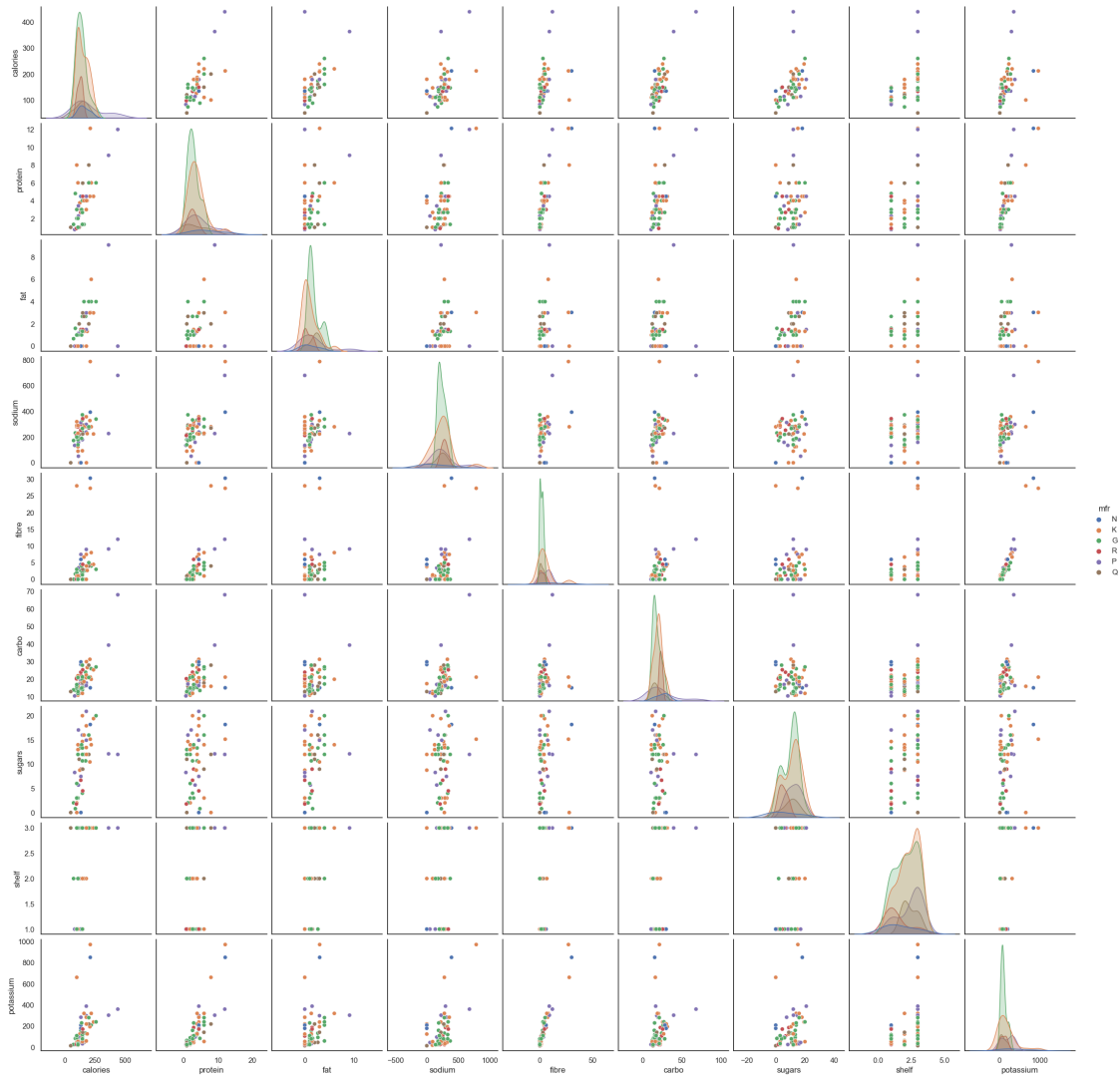
from the above table we can see that Oatmeal Raisin Crisp has more sugar and has less sugar compared to all the products of manufacturer 'G'

5. Generating suitable plots

a. Using only shelf and vitamins

```
[ ]: cereal.plot(x="vitamins",y="shelf", kind="scatter", label="UScereals",
    ↪color="b", fontsize="10")
plt.title("Scatter Plot - cereals")
plt.xlabel("vitamins")
plt.ylabel("self")
plt.show()
```





b. Using mfr and fiber

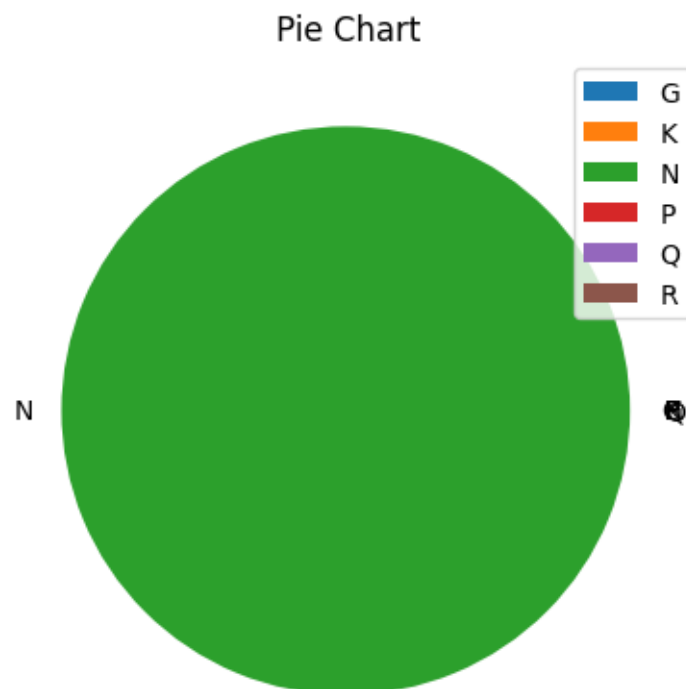
```
[ ]: mrf=cereal.groupby('mfr').min()
mrf
```

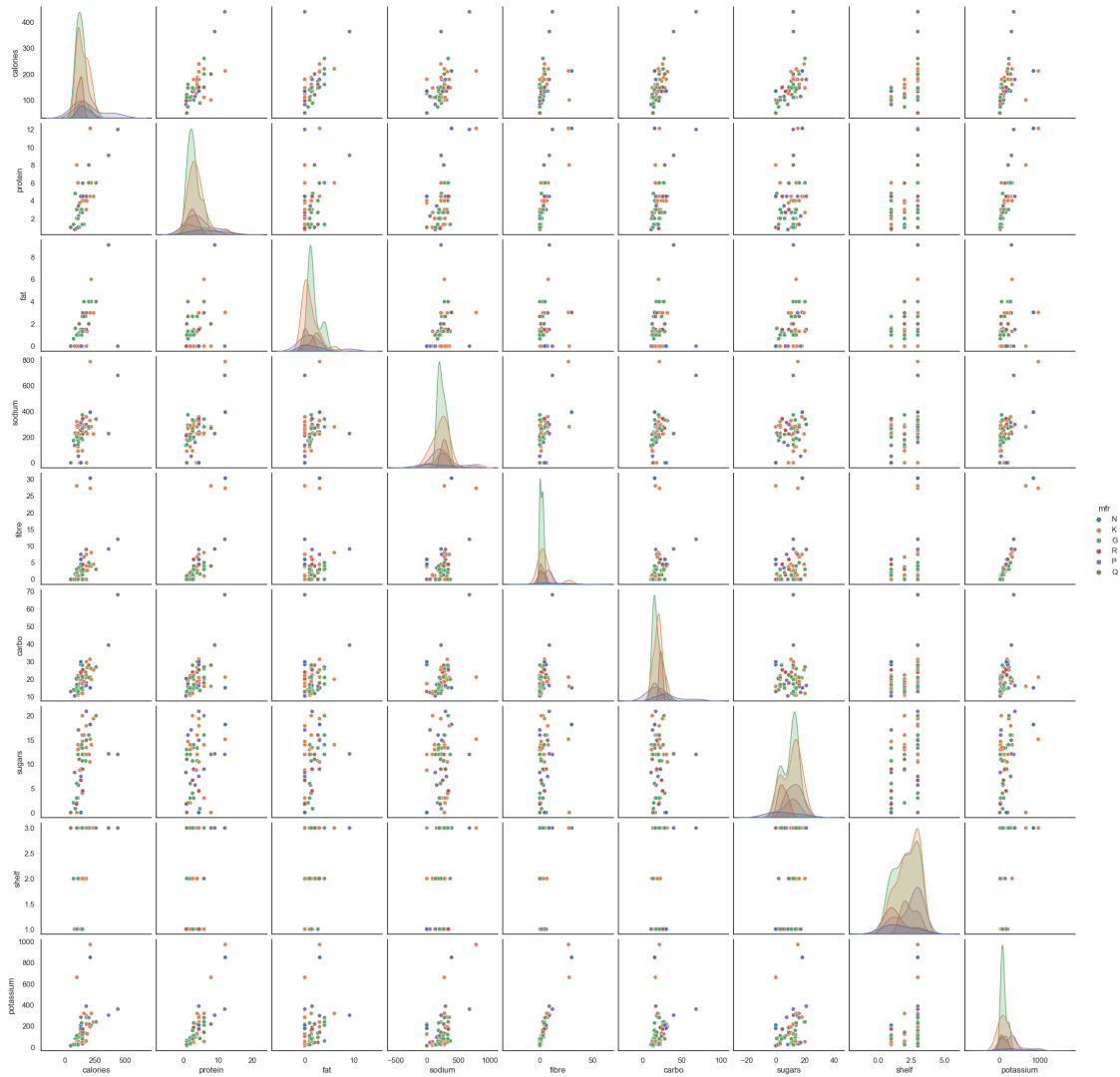
```
[ ]:
```

	Name	calories	protein	fat	sodium	fibre	carbo	\
mfr								
G	Apple Cinnamon Cheerios	73.33	1.00	0.67	140.00	0.00	12.00	
K	All-Bran	100.00	1.00	0.00	0.00	0.00	11.00	
N	100% Bran	134.33	4.48	0.00	0.00	4.48	15.15	
P	Bran Flakes	82.71	0.75	0.00	51.14	0.00	10.53	
Q	Cap'n Crunch	50.00	1.00	0.00	0.00	0.00	12.00	
R	Bran Chex	97.35	0.88	0.00	212.39	0.00	20.35	
	sugars	shelf	potassium	vitamins				
mfr								
G	0.80	1	25.00	100%				

K	0.00	1	20.00	100%
N	0.00	1	179.10	enriched
P	5.68	1	26.32	enriched
Q	0.00	2	15.00	enriched
R	1.77	1	25.00	enriched

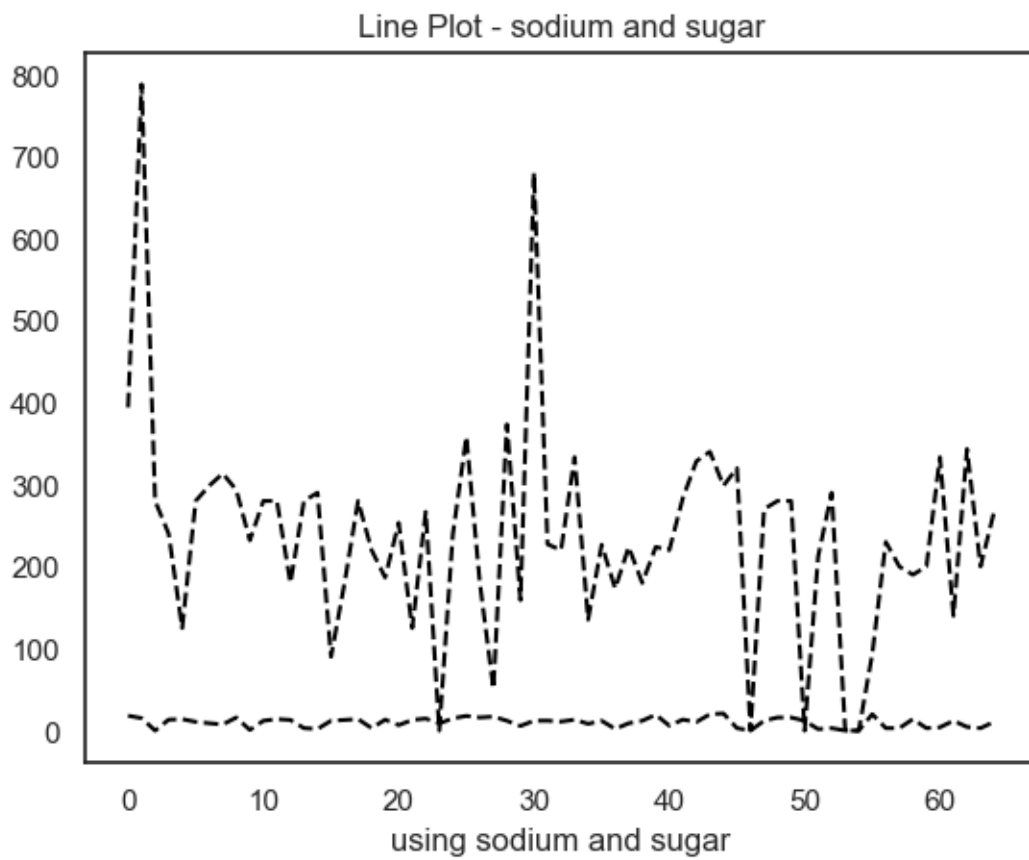
```
[ ]: e=(0,0.01,0.01,0.01,0.01,0.01)
Avg=list(mrf['fibre'])
plt.pie(Avg,explode=e,labels=['G','K','N','P','Q','R'])
plt.title('Pie Chart')
plt.legend(title="Salaries")
plt.legend(loc="upper right")
plt.show()
```

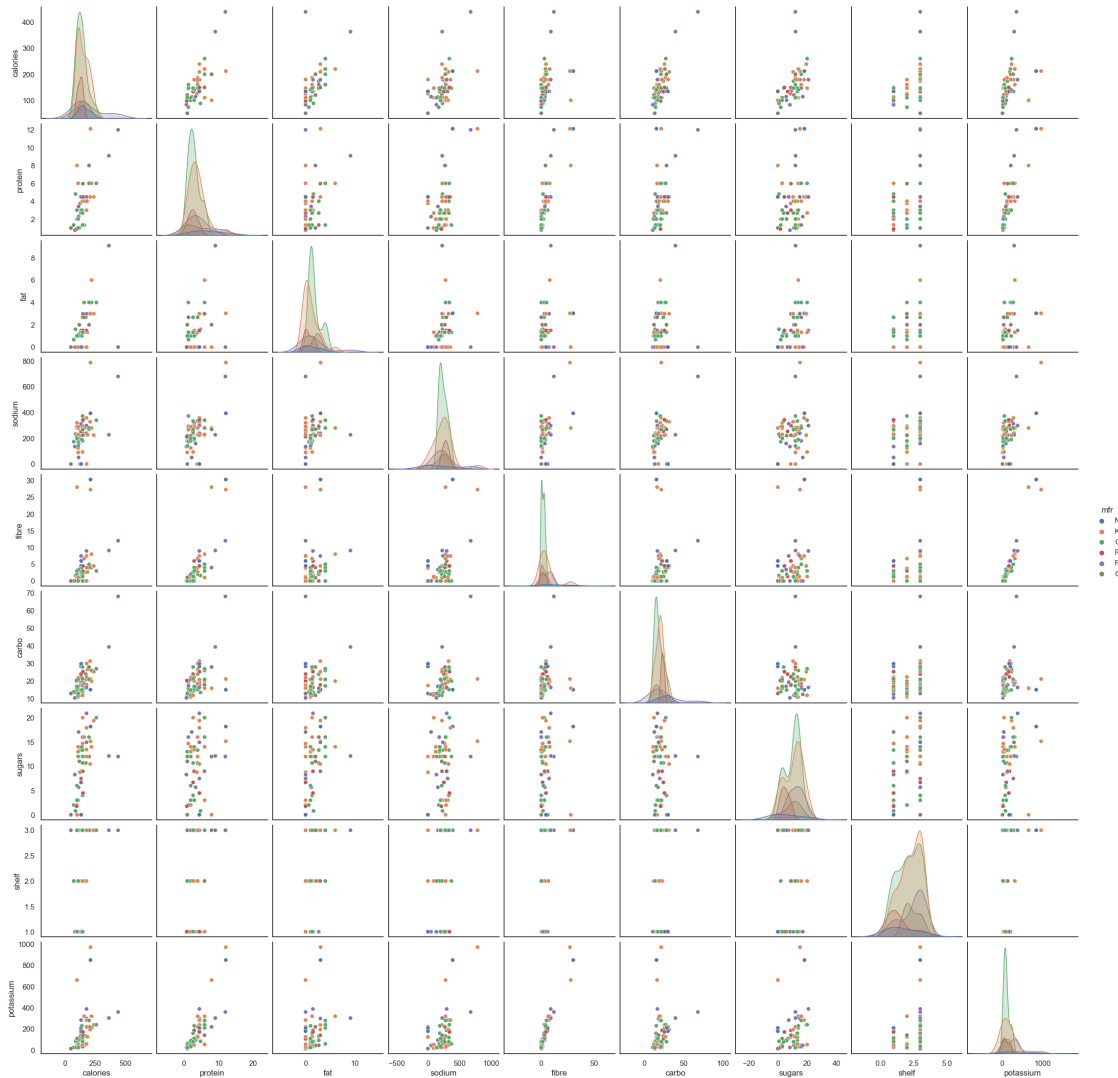




c. Using sodium and sugar

```
[ ]: cereal
cereal['sodium'].plot(kind='line',label="sodium",color="black",linewidth='1.
↳5',ls="--")
cereal['sugars'].plot(kind='line',label="sugar",color="black",linewidth='1.
↳5',ls="--")
plt.title("Line Plot - sodium and sugar")
plt.xlabel("using sodium and sugar")
plt.show()
```



```
[ ]: import seaborn as sns
sns.set(style="white")
sns.pairplot(cereal, hue="mfr")
plt.show()
```

C:\Users\91939\AppData\Local\Packages\PythonSoftwareFoundation.Python.3.10_qbz5n2kfra8p0\LocalCache\local-packages\Python310\site-packages\seaborn_oldcore.py:1498: FutureWarning: is_categorical_dtype is deprecated and will be removed in a future version. Use isinstance(dtype, CategoricalDtype) instead

```
if pd.api.types.is_categorical_dtype(vector):
```

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[illegible]

