

In [37]:

```
import pandas
dt = pandas.read_csv('sales_data.csv')
dt['Total Sales'] = dt['ProductA'] + dt['ProductB'] + dt['ProductC'] + dt['ProductE'] + dt[
dt['Min Sales'] = dt[['ProductA', 'ProductB', 'ProductC', 'ProductE', 'ProductF']].idxmin(axis=
dt['Max Sales'] = dt[['ProductA', 'ProductB', 'ProductC', 'ProductE', 'ProductF']].idxmax(axis=
dt
```

Out[37]:

	Day	ProductA	ProductB	ProductC	ProductE	ProductF	Total Sales	Min Sales	Max Sales
0	Monday	27	56	32	21	44	180	ProductE	ProductB
1	Tuesday	13	51	22	40	32	158	ProductA	ProductB
2	Wednesday	34	41	19	17	25	136	ProductE	ProductB
3	Thursday	22	55	37	26	25	165	ProductA	ProductB
4	Friday	27	49	32	31	44	183	ProductA	ProductB
5	Saturday	13	56	54	33	40	196	ProductA	ProductB
6	Sunday	21	44	31	29	38	163	ProductA	ProductB

In [12]:

```
import pandas
import numpy as np
dt = pandas.read_csv('sales_data.csv')
dt['Total Sales'] = dt['ProductA'] + dt['ProductB'] + dt['ProductC'] + dt['ProductE'] + dt[
dt['Min Sales'] = dt[['ProductA', 'ProductB', 'ProductC', 'ProductE', 'ProductF']].min(axis=1)
dt['Max Sales'] = dt[['ProductA', 'ProductB', 'ProductC', 'ProductE', 'ProductF']].max(axis=1)
dt['Avg Sales'] = dt[['ProductA', 'ProductB', 'ProductC', 'ProductE', 'ProductF']].mean(axis=1)
dt
```

Out[12]:

	Day	ProductA	ProductB	ProductC	ProductE	ProductF	Total Sales	Min Sales	Max Sales	Avg Sales
0	Monday	27	56	32	21	44	180	21	56	36.0
1	Tuesday	13	51	22	40	32	158	13	51	31.6
2	Wednesday	34	41	19	17	25	136	17	41	27.2
3	Thursday	22	55	37	26	25	165	22	55	33.0
4	Friday	27	49	32	31	44	183	27	49	36.6
5	Saturday	13	56	54	33	40	196	13	56	39.2
6	Sunday	21	44	31	29	38	163	21	44	32.6

In [17]:

```
dt = dt.T
dt
```

Out[17]:

	0	1	2	3	4	5	6
Day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
ProductA	27	13	34	22	27	13	21
ProductB	56	51	41	55	49	56	44
ProductC	32	22	19	37	32	54	31
ProductE	21	40	17	26	31	33	29
ProductF	44	32	25	25	44	40	38
Total Sales	180	158	136	165	183	196	163
Min Sales	21	13	17	22	27	13	21
Max Sales	56	51	41	55	49	56	44
Avg Sales	36.0	31.6	27.2	33.0	36.6	39.2	32.6

In [44]:

```
dt = pandas.read_csv('sales_data.csv')
dt = dt.T
dt
```

Out[44]:

	0	1	2	3	4	5	6
Day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
ProductA	27	13	34	22	27	13	21
ProductB	56	51	41	55	49	56	44
ProductC	32	22	19	37	32	54	31
ProductE	21	40	17	26	31	33	29
ProductF	44	32	25	25	44	40	38

In [45]:

```
dt = dt.reset_index()  
dt
```

Out[45]:

	index	0	1	2	3	4	5	6
0	Day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1	ProductA	27	13	34	22	27	13	21
2	ProductB	56	51	41	55	49	56	44
3	ProductC	32	22	19	37	32	54	31
4	ProductE	21	40	17	26	31	33	29
5	ProductF	44	32	25	25	44	40	38