

In [22]:

```
import numpy as np
import pandas as pd
```

In [23]:

```
df = pd.DataFrame({
    "modelo": ["Uno", "Monza", "Camaro", "Gol", "Palio"],
    "marca": ["Fiat", "Chevrolet", "Chevrolet", "VW", "Fiat"],
    "valor": [10000, 20000, 200000, 30000, 15000],
    "unidades": [10, 30, 100, 25, 15]
})
df
```

Out[23]:

	modelo	marca	valor	unidades
0	Uno	Fiat	10000	10
1	Monza	Chevrolet	20000	30
2	Camaro	Chevrolet	200000	100
3	Gol	VW	30000	25
4	Palio	Fiat	15000	15

Métodos Descriptivos

In [24]:

```
df.describe()
```

Out[24]:

	valor	unidades
count	5.00000	5.000000
mean	55000.00000	36.000000
std	81394.10298	36.640142
min	10000.00000	10.000000
25%	15000.00000	15.000000
50%	20000.00000	25.000000
75%	30000.00000	30.000000
max	200000.00000	100.000000

In [25]:

```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 5 entries, 0 to 4
Data columns (total 4 columns):
 #   Column      Non-Null Count  Dtype
---  -
 0   modelo      5 non-null      object
 1   marca        5 non-null      object
 2   valor        5 non-null      int64
 3   unidades     5 non-null      int64
dtypes: int64(2), object(2)
memory usage: 288.0+ bytes
```

In [26]:

```
df.count()
```

Out[26]:

```
modelo      5
marca        5
valor        5
unidades     5
dtype: int64
```

Agrupamiento de Datos

In [27]:

```
df
```

Out[27]:

	modelo	marca	valor	unidades
0	Uno	Fiat	10000	10
1	Monza	Chevrolet	20000	30
2	Camaro	Chevrolet	200000	100
3	Gol	VW	30000	25
4	Palio	Fiat	15000	15

In [28]:

```
grupo = df.groupby("marca")
grupo['marca'].count()
```

Out[28]:

```
marca
Chevrolet    2
Fiat         2
VW           1
Name: marca, dtype: int64
```

In [29]:

```
grupo['modelo'].value_counts()
```

Out[29]:

```
marca      modelo
Chevrolet  Camaro    1
           Monza     1
Fiat       Palio     1
           Uno       1
VW         Gol       1
Name: modelo, dtype: int64
```

In [30]:

```
grupo['valor'].mean()
```

Out[30]:

```
marca
Chevrolet    110000.0
Fiat         12500.0
VW           30000.0
Name: valor, dtype: float64
```

In [31]:

```
grupo['unidades'].sum()
```

Out[31]:

```
marca
Chevrolet    130
Fiat         25
VW           25
Name: unidades, dtype: int64
```

Valores Únicos

In [32]:

```
df['marca'].unique()
```

Out[32]:

```
array(['Fiat', 'Chevrolet', 'VW'], dtype=object)
```

In [33]:

```
df['marca'].nunique()
```

Out[33]:

```
3
```

In [34]:

```
df['marca'].value_counts()
```

Out[34]:

```
Fiat      2
Chevrolet  2
VW        1
Name: marca, dtype: int64
```

In []: