

DBSCAN DEMO

Importar Librerias

```
In [74]: import pandas as pd
from sklearn.cluster import DBSCAN
import matplotlib.pyplot as plt

%matplotlib qt
```

Cargar Datos

```
In [75]: df = df = pd.read_csv('./casas.csv')
df=df.dropna()
df.sample(10)
```

```
Out[75]:
```

	1	6
51	5	12
63	6	6
107	8	22
165	12	20
131	10	10
10	2	14
85	7	17
92	7	24
162	12	17
174	13	15

Analisis

```
In [76]: pred = DBSCAN(eps=2,min_samples=10).fit_predict(df)
```

```
In [77]: print(pred)
```

```
[-1 -1  0  0  0  0 -1  1  1 -1 -1 -1 -1  0  0  0  0  0  1  1  1 -1 -1
  0  0  0  0  0  0  0  1  1  1  1  1 -1  0  0  0  0  0  0  0  1  1  1
  1  1  1 -1 -1  0  0  0  0  0  0  0  0  1  1  1  1  1  1  0  0  0  0
  0  0  0  0  0  0  1  1  1  1  1  1 -1  0  0  0  0  0  0  0  0  0  1
  1  1  1  1  1  1  0  0  0  0  0  0  0  0  0  0  0  1  1  1  1  0  0
  0  0  0  0  0  0  0  0  0 -1  1  1  1  0  0  0  0  0  0  0  0  0 -1
  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0 -1  0  0  0  0  0  0  0
  0 -1 -1 -1  0  0  0  0  0  0  0  0  0  0  0 -1  0  0  0  0  0  0  0
  0 -1  0  0  0  0  0  0  0  0  0 -1 -1  0  0  0  0  0  0  0 -1 -1 -1  0
  0  0  0  0  0  0  0  0 -1  2 -1  0  0  0  0  0  2  2  2 -1 -1 -1  0  0
  0  0  0  0  0  2  2  2  2  2  2  2  0  0  0  0  0  2  2  2  2  2  2
  2  2  2 -1 -1 -1  0  2  2  2  2  2  2  2  2 -1 -1 -1 -1  2  2  2  2
  2  2  2  2 -1 -1 -1 -1 -1  2  2  2  2 -1 -1  2  2 -1]
```

Graficos

```
In [80]: plt.figure(figsize=(7.5, 7.5))
plt.scatter(df.iloc[:, 0], df.iloc[:, 1], c=pred, s=100)
plt.xlabel("Antigüedad de la Construcción en Años")
plt.ylabel("Precio de Casa en Pesos (1:100,000)")
plt.box(False)
plt.show()
```

```
In [ ]:
```