Data Preprocessing

12 Number.of.Bags

14 In.Country.Partner

13 Bag.Weight

15 Harvest.Year

16 Grading.Date

17 Owner.1

```
1 import numpy as np
2 import pandas as pd
3 import matplotlib.pyplot as plt
4 import pandas as pd
5 import io
6 data = pd.read csv('coffee dataset.csv')
7 data.info()
   <class 'pandas.core.frame.DataFrame'>
   RangeIndex: 1339 entries, 0 to 1338
   Data columns (total 44 columns):
                              Non-Null Count Dtype
        Column
       _____
                               _____
        Unnamed: 0
                              1339 non-null int64
                              1339 non-null
    1
       Species
                                              object
    2
        Owner
                              1332 non-null
                                              object
                              1338 non-null object
    3
        Country.of.Origin
                              980 non-null
        Farm.Name
                                              object
                                              object
    5
        Lot.Number
                              276 non-null
    6
       Mill
                              1021 non-null
                                              object
    7
        ICO.Number
                              1182 non-null
                                              object
        Company
                              1130 non-null
                                              object
                              1113 non-null
        Altitude
                                              object
                              1280 non-null
    10 Region
                                              object
    11 Producer
                              1107 non-null
                                              object
```

1339 non-null

1339 non-null

1339 non-null

1292 non-null

1339 non-null

1332 non-null

int64

object

object

object

object

object

```
21 Flavor
                           1339 non-null
                                          float64
 22 Aftertaste
                           1339 non-null
                                          float64
                           1339 non-null
                                          float64
 23 Acidity
24 Body
                           1339 non-null
                                          float64
 25 Balance
                           1339 non-null
                                          float64
26 Uniformity
                           1339 non-null
                                          float64
27 Clean.Cup
                           1339 non-null
                                          float64
28 Sweetness
                           1339 non-null
                                         float64
29 Cupper.Points
                           1339 non-null
                                          float64
30 Total.Cup.Points
                           1339 non-null
                                         float64
 31 Moisture
                           1339 non-null
                                         float64
32 Category.One.Defects
                          1339 non-null
                                         int64
33 Ouakers
                           1338 non-null
                                          float64
34 Color
                           1121 non-null
                                          object
35 Category. Two. Defects
                          1339 non-null
                                          int64
36 Expiration
                           1339 non-null
                                          object
37 Certification.Body
                           1339 non-null
                                          object
38 Certification.Address 1339 non-null
                                          object
 39 Certification.Contact 1339 non-null
                                          object
40 unit of measurement
                          1339 non-null
                                          object
41 altitude low meters
                          1109 non-null
                                          float64
42 altitude high meters
                          1109 non-null
                                          float64
43 altitude mean meters
                          1109 non-null
                                          float64
dtypes: float64(16), int64(4), object(24)
memory usage: 460.4+ KB
```

1 data.head()

	Unnamed:	Species	Owner	Country.of.Origin	Farm.Name	Lot.Number	Mill	ICO.Number	Company	Altitude	Regior
0	0	Arabica	metad plc	Ethiopia	metad plc	NaN	metad plc	2014/2015	metad agricultural developmet plc	1950- 2200	guji. hambela
1	1	Arabica	metad plc	Ethiopia	metad plc	NaN	metad plc	2014/2015	metad agricultural developmet plc	1950- 2200	guji hambela
2	2	Arabica	grounds for health admin	Guatemala	san marcos barrancas "san cristobal	NaN	NaN	NaN	NaN	1600 - 1800 m	NaN

→ Data Encoding

uapessa collee 2200

Arabica 1311 Robusta 28

Name: Species, dtype: int64

→ 1. Label Encoder

- 1 le=LabelEncoder()
- 2 data['Number.of.Bags']=le.fit_transform(data['Number.of.Bags'])

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107 272

 $^{{\}tt 1}\ {\tt from}\ {\tt sklearn.preprocessing}\ {\tt import}\ {\tt LabelEncoder}$, ${\tt OneHotEncoder}$

² data['Species'].value_counts()

```
110
       176
10
       108
1
        95
119
        79
75
         1
77
         1
78
79
         1
         1
Name: Number.of.Bags, Length: 131, dtype: int64
```

```
1 le.classes
   array([
                          2,
                                3,
                                            5,
                                                              8,
                                                                    9,
                                                                         10,
             0,
                   1,
                                      4,
                                                  6,
                                                        7,
                         13,
                              14,
                                     15,
                                                 17,
                                                             19,
            11,
                                                       18,
                   12,
                                           16,
                                                                   20,
                                                                          21,
             22,
                   23,
                                     26,
                                                 28,
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                                                                          32,
            33,
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                         36,
                               37,
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                                           39,
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                                                                          45,
                  49,
                         50,
                               51,
                                     53,
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                                                       58,
                                                             60,
                                                                   62,
                                                                         65,
             48,
                                                             84,
            66,
                  69,
                                     75,
                                           77,
                                                 80,
                                                       82,
                                                                   85,
                         70,
                               74,
                                                                          90,
            93,
                       100,
                              114,
                                    120,
                                          121,
                                                123,
                                                      125,
                                                            127,
                                                                  129,
                                                                         130,
                 135,
                       138,
                              140,
                                   149,
                                          150,
                                                160,
                                                      165,
                                                            166,
            134,
                                                                  167,
                                                                         170,
                                                            226,
           175,
                 180,
                       198,
                              200,
                                    202,
                                          209,
                                                220,
                                                      223,
                                                                  230,
                                                                        232,
           235,
                 240,
                        243,
                              245,
                                    248,
                                          250,
                                                252,
                                                      253,
                                                            256,
                                                                  270,
                                                                        274,
            275,
                 280,
                       285,
                              288,
                                    300,
                                          302,
                                                304,
                                                      305,
                                                            310,
                                                                         325,
                                                                  320,
            360, 377,
                        380,
                              400, 440,
                                          450,
                                                500,
                                                      550,
                                                            600, 1062])
```

→ 2. Onehot Encoder

```
1 data['In.Country.Partner'].value_counts()

☐→ Specialty Coffee Association 313
AMECAFE 205

To undo cell deletion use Ctrl+M Z or the Undo option in the Edit menu X 155
Instituto Hondureño del Café 60
```

```
Blossom Vallev International
                                                                                                58
    Africa Fine Coffee Association
                                                                                                49
    Specialty Coffee Association of Costa Rica
                                                                                                42
    NUCOFFEE
                                                                                                36
    Uganda Coffee Development Authority
                                                                                                32
   Kenya Coffee Traders Association
                                                                                                22
   Ethiopia Commodity Exchange
                                                                                                18
   Specialty Coffee Institute of Asia
                                                                                                16
    METAD Agricultural Development plc
                                                                                                15
   Yunnan Coffee Exchange
                                                                                                12
    Salvadoran Coffee Council
                                                                                                11
   Specialty Coffee Association of Indonesia
                                                                                                10
    Centro Agroecológico del Café A.C.
                                                                                                 8
    Asociación de Cafés Especiales de Nicaragua
   Coffee Ouality Institute
                                                                                                 7
    Asociación Mexicana De Cafés y Cafeterías De Especialidad A.C.
    Tanzanian Coffee Board
                                                                                                 6
    Torch Coffee Lab Yunnan
                                                                                                 2
    Specialty Coffee Ass
                                                                                                 1
    Blossom Valley International\n
                                                                                                 1
    Central De Organizaciones Productoras De Café y Cacao Del Perú - Central Café & Cacao
                                                                                                 1
   Name: In.Country.Partner, dtype: int64
1 one hot = OneHotEncoder()
2 transformed data = one hot.fit transform(data['In.Country.Partner'].values.reshape(-1,1)).toarray()
3 one hot.categories
    [array(['AMECAFE', 'Africa Fine Coffee Association', 'Almacafé',
            'Asociacion Nacional Del Café',
            'Asociación Mexicana De Cafés y Cafeterías De Especialidad A.C.',
            'Asociación de Cafés Especiales de Nicaragua',
            'Blossom Valley International', 'Blossom Valley International\n',
            'Brazil Specialty Coffee Association',
            'Central De Organizaciones Productoras De Café y Cacao Del Perú - Central Café & Cacao',
            'Centro Agroecológico del Café A.C.', 'Coffee Quality Institute',
            'Ethiopia Commodity Exchange', 'Instituto Hondureño del Café',
            'Kenya Coffee Traders Association',
To undo cell deletion use Ctrl+M Z or the Undo option in the Edit menu X
```

```
'Specialty Coffee Association of Costa Rica',
'Specialty Coffee Association of Indonesia',
'Specialty Coffee Institute of Asia', 'Tanzanian Coffee Board',
'Torch Coffee Lab Yunnan', 'Uganda Coffee Development Authority',
'Yunnan Coffee Exchange'], dtype=object)]
```

```
1
 2 transformed data = pd.DataFrame(transformed data ,
                                   columns = ['AMECAFE', 'Africa Fine Coffee Association', 'Almacafé',
 3
 4
           'Asociacion Nacional Del Café',
 5
           'Asociación Mexicana De Cafés y Cafeterías De Especialidad A.C.',
           'Asociación de Cafés Especiales de Nicaragua',
           'Blossom Valley International', 'Blossom Valley International\n',
           'Brazil Specialty Coffee Association',
 8
           'Central De Organizaciones Productoras De Café y Cacao Del Perú - Central Café & Cacao',
 9
           'Centro Agroecológico del Café A.C.', 'Coffee Ouality Institute',
10
           'Ethiopia Commodity Exchange', 'Instituto Hondureño del Café',
11
12
           'Kenya Coffee Traders Association',
13
           'METAD Agricultural Development plc', 'NUCOFFEE',
           'Salvadoran Coffee Council', 'Specialty Coffee Ass',
14
           'Specialty Coffee Association',
15
           'Specialty Coffee Association of Costa Rica',
16
17
           'Specialty Coffee Association of Indonesia',
           'Specialty Coffee Institute of Asia', 'Tanzanian Coffee Board',
18
           'Torch Coffee Lab Yunnan', 'Uganda Coffee Development Authority',
19
           'Yunnan Coffee Exchange'])
20
21 transformed data.head()
22
```

Africa Fine AMECAFE Coffee Almacafe Association	Asociacion Nacional Del Café	Asociación Mexicana De Cafés y Cafeterías De Especialidad A.C.	de Cafés Especiales	Blossom Valley International	Blossom Valley International\n	А
0 0.0 0.0 0.0	0.0	0.0	0.0	0.0	0.0	
transformed_data.iloc[90,]						
AMECAFE Africa Fine Coffee Association Almacafé Asociacion Nacional Del Café Asociación Mexicana De Cafés y Ca Asociación de Cafés Especiales de Blossom Valley International Blossom Valley International\n Brazil Specialty Coffee Associati Central De Organizaciones Product Centro Agroecológico del Café A.C Coffee Quality Institute Ethiopia Commodity Exchange Instituto Hondureño del Café Kenya Coffee Traders Association METAD Agricultural Development pl NUCOFFEE Salvadoran Coffee Council Specialty Coffee Ass Specialty Coffee Association of C Specialty Coffee Association of C Specialty Coffee Association of I Specialty Coffee Institute of Asi Tanzanian Coffee Board Torch Coffee Lab Yunnan Usanda Coffee Development Authoric O undo cell deletion use Ctrl+M Z or the Undo	Nicaragua on oras De Café osta Rica odonesia	y Cacao Del Pe		Café & Cacao	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	

```
1 data['Number.of.Bags'][90]
68
```

Normalization & Standardization

```
2 numeric columns = [c for c in data.columns if data[c].dtype != np.dtype('0')]
3 numeric columns
    ['Unnamed: 0',
     'Number.of.Bags',
     'Aroma',
     'Flavor',
     'Aftertaste',
     'Acidity',
     'Body',
     'Balance',
     'Uniformity',
     'Clean.Cup',
     'Sweetness',
     'Cupper.Points',
     'Total.Cup.Points',
     'Moisture',
     'Category.One.Defects',
     'Quakers',
     'Category.Two.Defects',
     'altitude low meters',
     'altitude_high_meters',
     'altitude mean meters']
1 len(numeric_columns) , len(data.columns)
To undo cell deletion use Ctrl+M Z or the Undo option in the Edit menu X
```

```
1 numeric_columns.remove('Aroma')
```

² temp_data

	Unnamed:	Number.of.Bags	Aftertaste	Acidity	Body	Balance	Uniformity	Clean.Cup	Sweetness	Cupp
0	0	114	8.67	8.75	8.50	8.42	10.00	10.00	10.00	
1	1	114	8.50	8.58	8.42	8.42	10.00	10.00	10.00	
2	2	5	8.42	8.42	8.33	8.42	10.00	10.00	10.00	
3	3	119	8.42	8.42	8.50	8.25	10.00	10.00	10.00	
4	4	114	8.25	8.50	8.42	8.33	10.00	10.00	10.00	
1334	1334	1	7.33	7.58	5.08	7.83	10.00	10.00	7.75	
1335	1335	1	7.75	7.75	5.17	5.25	10.00	10.00	8.42	
1336	1336	1	7.17	7.42	7.50	7.17	9.33	9.33	7.42	
1337	1337	1	6.75	7.17	7.25	7.00	9.33	9.33	7.08	
1338	1338	1	6.50	6.83	6.92	6.83	9.33	9.33	6.67	

1339 rows × 18 columns

Normalization

² numeric_columns.remove('Flavor')

¹ temp_data = data[numeric_columns]

```
3 warnings.filterwarnings('ignore')
4 normalizer = MinMaxScaler()
5 temp_data.dropna(axis = 1 , inplace = True)
6 normalized_data = normalizer.fit_transform(temp_data)
7 pd.DataFrame(normalized_data , columns = temp_data.columns)
```

	Unnamed:	Number.of.Bags	Aftertaste	Acidity	Body	Balance	Uniformity	Clean.Cup	Sweetness
0	0.000000	0.876923	1.000000	1.000000	0.990676	0.962286	1.000	1.000	1.000
1	0.000747	0.876923	0.980392	0.980571	0.981352	0.962286	1.000	1.000	1.000
2	0.001495	0.038462	0.971165	0.962286	0.970862	0.962286	1.000	1.000	1.000
3	0.002242	0.915385	0.971165	0.962286	0.990676	0.942857	1.000	1.000	1.000
4	0.002990	0.876923	0.951557	0.971429	0.981352	0.952000	1.000	1.000	1.000
1334	0.997010	0.007692	0.845444	0.866286	0.592075	0.894857	1.000	1.000	0.775
1335	0.997758	0.007692	0.893887	0.885714	0.602564	0.600000	1.000	1.000	0.842
1336	0.998505	0.007692	0.826990	0.848000	0.874126	0.819429	0.933	0.933	0.742
1337	0.999253	0.007692	0.778547	0.819429	0.844988	0.800000	0.933	0.933	0.708
1338	1.000000	0.007692	0.749712	0.780571	0.806527	0.780571	0.933	0.933	0.667

1339 rows × 14 columns

→ Standardization

To undo cell deletion use Ctrl+M Z or the Undo option in the Edit menu X

	Unnamed:	Number.of.Bags	Aftertaste	Acidity	Body	Balance	Uniformity	Clean.Cup	Sweetnes
0	-1.730758	1.032078	3.138457	3.198164	2.655944	2.206476	0.29785	0.215923	0.23269
1	-1.728171	1.032078	2.717990	2.750424	2.439684	2.206476	0.29785	0.215923	0.23269
2	-1.725584	-1.359565	2.520123	2.329022	2.196392	2.206476	0.29785	0.215923	0.23269
3	-1.722997	1.141786	2.520123	2.329022	2.655944	1.790615	0.29785	0.215923	0.23269
4	-1.720409	1.032078	2.099656	2.539723	2.439684	1.986314	0.29785	0.215923	0.23269
1334	1.720409	-1.447331	-0.175812	0.116661	-6.589155	0.763194	0.29785	0.215923	-3.42066
1335	1.722997	-1.447331	0.862989	0.564400	-6.345863	-5.548106	0.29785	0.215923	-2.33277
1336	1.725584	-1.447331	-0.571545	-0.304742	-0.047302	-0.851325	-0.91070	-0.661430	-3.95649
1337	1.728171	-1.447331	-1.610346	-0.963182	-0.723113	-1.267185	-0.91070	-0.661430	-4.50855
1338	1.730758	-1.447331	-2.228680	-1.858662	-1.615184	-1.683046	-0.91070	-0.661430	-5.17427

1339 rows × 14 columns

Handling With Missing Values

1 data.isnull().sum()

Unnamed: 0 0
Species 0

To undo cell deletion use Ctrl+M Z or the Undo option in the Edit menu X

Lot.Number 1063

Mill	318
ICO.Number	157
Company	209
Altitude	226
Region	59
Producer	232
Number.of.Bags	0
Bag.Weight	0
In.Country.Partner	0
Harvest.Year	47
Grading.Date	0
Owner.1	7
Variety	226
Processing.Method	170
Aroma	0
Flavor	0
Aftertaste	0
Acidity	0
Body	0
Balance	0
Uniformity	0
Clean.Cup	0
Sweetness	0
Cupper.Points	0
Total.Cup.Points	0
Moisture	0
Category.One.Defects	0
Quakers	1
Color	218
Category.Two.Defects	0
Expiration	0
Certification.Body	0
Certification.Address	0
Certification.Contact	0
unit_of_measurement	0
altitude_low_meters	230
altitude_high_meters	230
altitude_mean_meters	230

To undo cell deletion use Ctrl+M Z or the Undo option in the Edit menu X

→ Simple Imputer

→ Discretization

```
1 from sklearn.preprocessing import KBinsDiscretizer
2 temp_data.head()
```

Quantile Discretization Transform

1 trans = KBinsDiscretizer(n_bins =10 , encode = 'ordinal' , strategy='quantile')
2 new_data = trans.fit_transform(temp_data)
3 pd.DataFrame(new_data,columns = temp_data.columns)

	Unnamed: 0	Number.of.Bags	Aftertaste	Acidity	Body	Balance	Uniformity	Clean.Cup	Sweetness	Cupp
0	0.0	8.0	9.0	8.0	8.0	8.0	1.0	0.0	0.0	
1	0.0	8.0	9.0	8.0	8.0	8.0	1.0	0.0	0.0	
2	0.0	1.0	9.0	8.0	8.0	8.0	1.0	0.0	0.0	
3	0.0	8.0	9.0	8.0	8.0	8.0	1.0	0.0	0.0	
4	0.0	8.0	9.0	8.0	8.0	8.0	1.0	0.0	0.0	
1334	9.0	0.0	4.0	5.0	0.0	7.0	1.0	0.0	0.0	
1335	9.0	0.0	8.0	7.0	0.0	0.0	1.0	0.0	0.0	
1336	9.0	0.0	2.0	3.0	4.0	1.0	1.0	0.0	0.0	
1337	9.0	0.0	0.0	1.0	1.0	0.0	1.0	0.0	0.0	
1338	9.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	

1339 rows × 14 columns

Uniform Discretization Transform

```
1 trans = KBinsDiscretizer(n_bins =10 , encode = 'ordinal' , strategy='uniform')
2 new_data = trans.fit_transform(temp_data)
3
4 pd.DataFrame(new_data,columns = temp_data.columns )
```

Unnamed:	Number.of.Bags	Aftertaste	Acidity	Body	Balance	Uniformity	Clean.Cup	Sweetness	Cupp
0.0	8.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	
0.0	8.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	
0.0	0.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	
0.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	
0.0	8.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	
9.0	0.0	8.0	8.0	5.0	8.0	9.0	9.0	7.0	
9.0	0.0	8.0	8.0	6.0	6.0	9.0	9.0	8.0	
9.0	0.0	8.0	8.0	8.0	8.0	9.0	9.0	7.0	
9.0	0.0	7.0	8.0	8.0	8.0	9.0	9.0	7.0	
9.0	0.0	7.0	7.0	8.0	7.0	9.0	9.0	6.0	
	9.0 9.0 9.0 9.0 9.0	Number.of.Bags 0.0 8.0 0.0 8.0 0.0 0.0 0.0 9.0 0.0 8.0 9.0 0.0 9.0 0.0 9.0 0.0 9.0 0.0 9.0 0.0 9.0 0.0 9.0 0.0 9.0 0.0	Number.of.Bags Aftertaste 0.0 8.0 9.0 0.0 8.0 9.0 0.0 9.0 9.0 0.0 8.0 9.0 9.0 0.0 8.0 9.0 0.0 8.0 9.0 0.0 8.0 9.0 0.0 8.0 9.0 0.0 7.0	Number.of.Bags Aftertaste Actidity 0.0 8.0 9.0 9.0 0.0 8.0 9.0 9.0 0.0 9.0 9.0 9.0 0.0 8.0 9.0 9.0 9.0 0.0 8.0 8.0 9.0 0.0 8.0 8.0 9.0 0.0 8.0 8.0 9.0 0.0 8.0 8.0 9.0 0.0 7.0 8.0	Number.of.Bags Aftertaste Actidity Body 0.0 8.0 9.0 9.0 9.0 0.0 8.0 9.0 9.0 9.0 0.0 9.0 9.0 9.0 9.0 0.0 8.0 9.0 9.0 9.0 9.0 0.0 8.0 8.0 5.0 9.0 0.0 8.0 8.0 6.0 9.0 0.0 8.0 8.0 8.0 9.0 0.0 7.0 8.0 8.0	Number.off.Bags Aftertaste Actidity Body Balance 0.0 8.0 9.0 9.0 9.0 9.0 0.0 8.0 9.0 9.0 9.0 9.0 0.0 9.0 9.0 9.0 9.0 9.0 0.0 8.0 9.0 9.0 9.0 9.0 9.0 0.0 8.0 8.0 5.0 8.0 9.0 9.0 0.0 8.0 8.0 6.0 6.0 9.0 9.0 0.0 8.0 8.0 8.0 8.0 8.0 9.0 0.0 7.0 8.0 8.0 8.0 8.0	Number.off.Bags Aftertaste Actidity Body Balance Unifformity 0.0 8.0 9.0 9.0 9.0 9.0 0.0 8.0 9.0 9.0 9.0 9.0 0.0 0.0 9.0 9.0 9.0 9.0 0.0 9.0 9.0 9.0 9.0 9.0 0.0 8.0 9.0 9.0 9.0 9.0 0.0 8.0 9.0 9.0 9.0 9.0 9.0 0.0 8.0 8.0 5.0 8.0 9.0 9.0 0.0 8.0 8.0 8.0 8.0 9.0 9.0 0.0 8.0 8.0 8.0 8.0 9.0 9.0 0.0 8.0 8.0 8.0 8.0 9.0 9.0 0.0 8.0 8.0 8.0 8.0 9.0 9.0 0.0 8.0 8.0 8.0 8.0 9.0 </th <th>Number of Bags Aftertaste Actor of Section (Actor of Section (A</th> <th>0 Number of Bags Aftertaste Actidity Body Balance Uniformity Clean cup Sweetness 0.0 8.0 9.0 7.0 9.0 9.0 9.0 9.0 9.0</th>	Number of Bags Aftertaste Actor of Section (Actor of Section (A	0 Number of Bags Aftertaste Actidity Body Balance Uniformity Clean cup Sweetness 0.0 8.0 9.0 7.0 9.0 9.0 9.0 9.0 9.0

1339 rows × 14 columns

```
1 trans = KBinsDiscretizer(n_bins =10 , encode = 'ordinal' , strategy='kmeans')
2 new_data = trans.fit_transform(temp_data)
3
4 pd.DataFrame(new_data,columns = temp_data.columns )
```

	Unnamed: 0	Number.of.Bags	Aftertaste	Acidity	Body	Balance	Uniformity	Clean.Cup	Sweetness	Cupp
0	0.0	8.0	9.0	9.0	8.0	9.0	6.0	8.0	7.0	
1	0.0	8.0	8.0	8.0	8.0	9.0	6.0	8.0	7.0	
2	0.0	0.0	8.0	8.0	8.0	9.0	6.0	8.0	7.0	
3	0.0	9.0	8.0	8.0	8.0	9.0	6.0	8.0	7.0	
4	0.0	8.0	7.0	8.0	8.0	9.0	6.0	8.0	7.0	
1334	9.0	0.0	4.0	5.0	1.0	9.0	6.0	8.0	4.0	
1335	9.0	0.0	5.0	5.0	2.0	1.0	6.0	8.0	5.0	
1336	9.0	0.0	3.0	5.0	5.0	7.0	5.0	7.0	4.0	
1337	9.0	0.0	2.0	4.0	5.0	5.0	5.0	7.0	3.0	
1338	9.0	0.0	1.0	3.0	4.0	3.0	5.0	7.0	3.0	

1339 rows × 14 columns