⌄ IMPORTING PANDAS LIBRARY

```
import pandas as pd
```

⌄ DICTIONARY OF STUDENTS, THEIR SCORES, GENDERS AND CITIES

```
data = {'Name': ['Zaynab','Atika','Haladu','Alameen','Amina','Buhari','Rabiu'],
        'City': ['Kano','Kogi','Bauchi','Hadejia','Dutse','Kiri','Jigawa'],
        'Gender': ['Female','Female','Male','Male','Female','Male','Male'],
        'Scores' : [55,60,35,70,67,40,59]}
```

⌄ DATAFRAME OF DICTIONARY

```
df = pd.DataFrame(data)
print(df)
```

```
      Name      City  Gender  Scores
0   Zaynab      Kano  Female      55
1    Atika      Kogi  Female      60
2   Haladu    Bauchi    Male      35
3  Alameen   Hadejia    Male      70
4    Amina     Dutse  Female      67
5   Buhari      Kiri    Male      40
6    Rabiu    Jigawa    Male      59
```

⌄ BASIC INFORMATION OF DICTIONARY

```
print(df.info(data))
```

```
    <class 'pandas.core.frame.DataFrame'>
    RangeIndex: 7 entries, 0 to 6
    Data columns (total 4 columns):
     #   Column  Non-Null Count  Dtype
    ---  ------  --------------  -----
     0   Name    7 non-null      object
     1   City    7 non-null      object
     2   Gender  7 non-null      object
     3   Scores  7 non-null      int64
    dtypes: int64(1), object(3)
```

```
memory usage: 352.0+ bytes
None
```

FILTERING OF DICTIONARY BASED ON CONDITIONS

```
filtered_df = df[df['Scores']< 50]
print(filtered_df)
```

```
      Name    City Gender  Scores
2  Haladu  Bauchi   Male      35
5  Buhari    Kiri   Male      40
```

```
filtered_df2 = df[df['Scores'] >=50]
print(filtered_df2)
```

```
       Name     City  Gender  Scores
0   Zaynab     Kano  Female      55
1    Atika     Kogi  Female      60
3  Alameen  Hadejia    Male      70
4    Amina    Dutse  Female      67
6    Rabiu   Jigawa    Male      59
```

```
filtered_df3 = df[df['Gender'] == 'Male']
print(filtered_df3)
```

```
       Name     City Gender  Scores
2   Haladu   Bauchi   Male      35
3  Alameen  Hadejia   Male      70
5   Buhari     Kiri   Male      40
6    Rabiu   Jigawa   Male      59
```

```
filtered_df4 = df[df['Gender']== "Female"]
print(filtered_df4)
```

```
     Name   City  Gender  Scores
0  Zaynab   Kano  Female      55
1   Atika   Kogi  Female      60
4   Amina  Dutse  Female      67
```

DESCRIPTIVE ANALYSIS

```
print(df)
```

```
       Name     City  Gender  Scores
0   Zaynab     Kano  Female      55
1    Atika     Kogi  Female      60
2   Haladu   Bauchi    Male      35
3  Alameen  Hadejia    Male      70
4    Amina    Dutse  Female      67
```

```
5   Buhari    Kiri    Male      40
6    Rabiu   Jigawa   Male      59
```

```
print(df.describe())
```

```
              Scores
count     7.000000
mean     55.142857
std      13.133019
min      35.000000
25%      47.500000
50%      59.000000
75%      63.500000
max      70.000000
```