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[4]
```
import pandas as pd
a=pd.read_csv('patient_data.csv')
print(a)
print(a.info())
print(a.isnull())
```

```
   PatientID     Name   Age  BloodPressure  Cholesterol  HeartRate
0        101    Alice  45.0            120        200.0       70.0
1        102      Bob  50.0            125          NaN       75.0
2        103  Charlie   NaN            130        180.0        NaN
3        104      NaN  60.0            140        220.0       65.0
4        105    David  70.0            135        190.0       80.0
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 5 entries, 0 to 4
Data columns (total 6 columns):
 #   Column         Non-Null Count  Dtype
---  ------         --------------  -----
 0   PatientID      5 non-null      int64
 1   Name           4 non-null      object
 2   Age            4 non-null      float64
 3   BloodPressure  5 non-null      int64
 4   Cholesterol    4 non-null      float64
 5   HeartRate      4 non-null      float64
dtypes: float64(3), int64(2), object(1)
memory usage: 368.0+ bytes
None
```

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[4]
```
memory usage: 368.0+ bytes
None
```

| | PatientID | Name | Age | BloodPressure | Cholesterol | HeartRate |
|---|---|---|---|---|---|---|
| 0 | False | False | False | False | False | False |
| 1 | False | False | False | False | True | False |
| 2 | False | False | True | False | False | True |
| 3 | False | True | False | False | False | False |
| 4 | False | False | False | False | False | False |

[8]
```
b=a['Age'].fillna(45,inplace=True)
print(a)
c=a['HeartRate'].fillna(60,inplace=True)
print(a)
```

| | PatientID | Name | Age | BloodPressure | Cholesterol | HeartRate |
|---|---|---|---|---|---|---|
| 0 | 101 | Alice | 45.0 | 120 | 200.0 | 70.0 |
| 1 | 102 | Bob | 50.0 | 125 | NaN | 75.0 |
| 2 | 103 | Charlie | 45.0 | 130 | 180.0 | 60.0 |
| 3 | 104 | NaN | 60.0 | 140 | 220.0 | 65.0 |
| 4 | 105 | David | 70.0 | 135 | 190.0 | 80.0 |

| | PatientID | Name | Age | BloodPressure | Cholesterol | HeartRate |
|---|---|---|---|---|---|---|
| 0 | 101 | Alice | 45.0 | 120 | 200.0 | 70.0 |
| 1 | 102 | Bob | 50.0 | 125 | NaN | 75.0 |
| 2 | 103 | Charlie | 45.0 | 130 | 180.0 | 60.0 |
| 3 | 104 | NaN | 60.0 | 140 | 220.0 | 65.0 |
| 4 | 105 | David | 70.0 | 135 | 190.0 | 80.0 |

<ipython-input-8-06b35569e44d>:1: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained as

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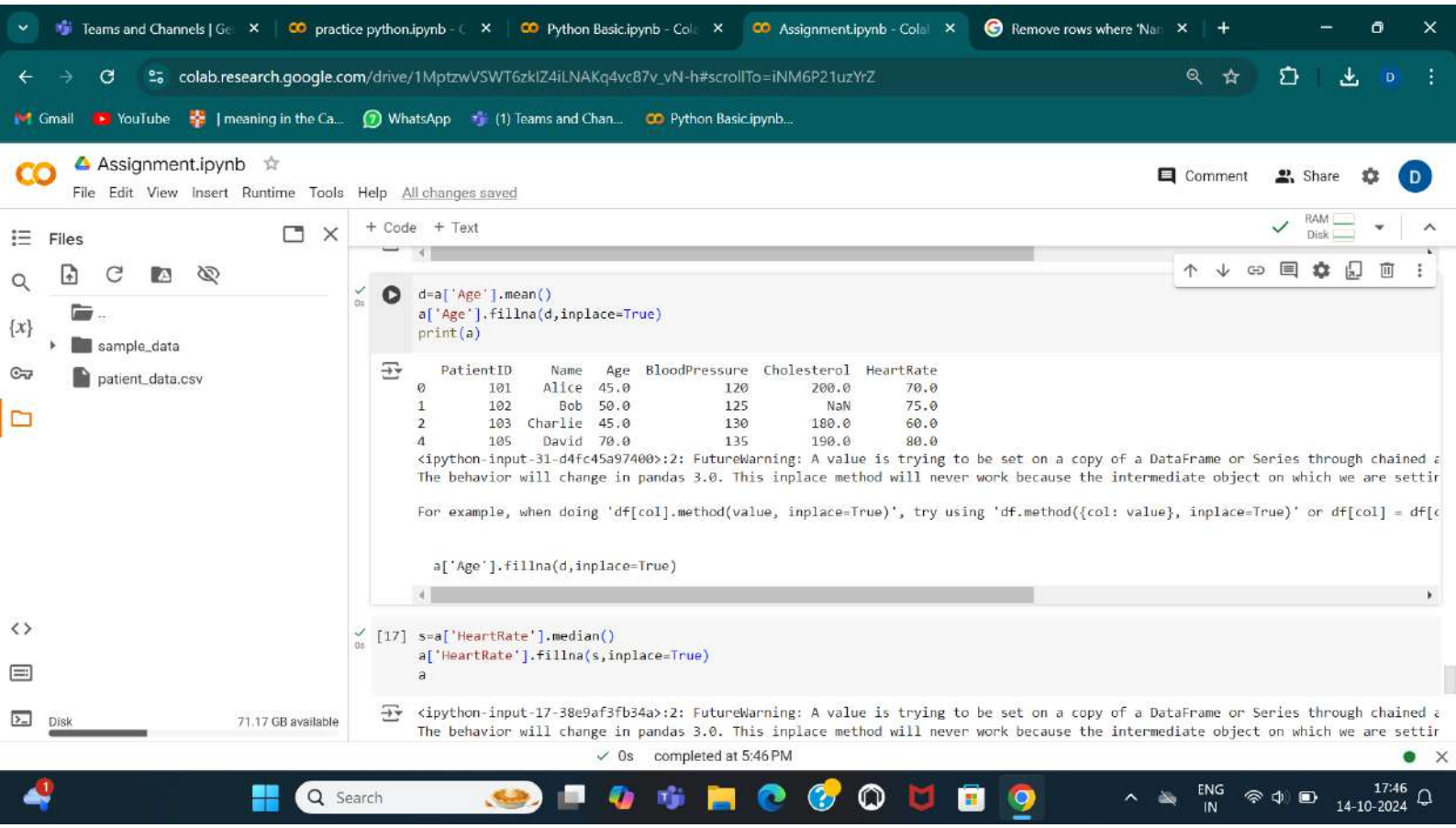
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d=a['Age'].mean()
a['Age'].fillna(d,inplace=True)
print(a)
PatientID Name Age BloodPressure Cholesterol HeartRate
0 101 Alice 45.0 120 200.0 70.0
1 102 Bob 50.0 125 NaN 75.0
2 103 Charlie 45.0 130 180.0 60.0
4 105 David 70.0 135 190.0 80.0
<ipython-input-31-d4fc45a97400>:2: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained a
The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are settir
For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[c
a['Age'].fillna(d,inplace=True)
[17] s=a['HeartRate'].median()
a['HeartRate'].fillna(s,inplace=True)
a
<ipython-input-17-38e9af3fb34a>:2: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained a
The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are settir
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[17] For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[c

```
a['HeartRate'].fillna(s,inplace=True)
```

| | PatientID | Name | Age | BloodPressure | Cholesterol | HeartRate |
|---|---|---|---|---|---|---|
| 0 | 101 | Alice | 45.0 | 120 | 200.0 | 70.0 |
| 1 | 102 | Bob | 50.0 | 125 | NaN | 75.0 |
| 2 | 103 | Charlie | 45.0 | 130 | 180.0 | 60.0 |
| 3 | 104 | NaN | 60.0 | 140 | 220.0 | 65.0 |
| 4 | 105 | David | 70.0 | 135 | 190.0 | 80.0 |

Next steps: View recommended plots | New interactive sheet

[22]
```
d=a['Age'].mean()
print(a.loc[a['Age']>d])
```

| | PatientID | Name | Age | BloodPressure | Cholesterol | HeartRate |
|---|---|---|---|---|---|---|
| 3 | 104 | NaN | 60.0 | 140 | 220.0 | 65.0 |
| 4 | 105 | David | 70.0 | 135 | 190.0 | 80.0 |

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```
[22] d=a['Age'].mean()
     print(a.loc[a['Age']>d])
```

```
   PatientID   Name   Age  BloodPressure  Cholesterol  HeartRate
3        104    NaN  60.0            140        220.0       65.0
4        105  David  70.0            135        190.0       80.0
```

```
[23] s=a['HeartRate'].median()
     print(a.loc[a['HeartRate']>s])
```

```
   PatientID   Name   Age  BloodPressure  Cholesterol  HeartRate
1        102    Bob  50.0            125          NaN       75.0
4        105  David  70.0            135        190.0       80.0
```

```
[24] x=a.drop('Cholesterol',axis=1)
     x
```

| | PatientID | Name | Age | BloodPressure | HeartRate |
|---|---|---|---|---|---|
| 0 | 101 | Alice | 45.0 | 120 | 70.0 |
| 1 | 102 | Bob | 50.0 | 125 | 75.0 |
| 2 | 103 | Charlie | 45.0 | 130 | 60.0 |

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```
x=a.drop('Cholesterol',axis=1)
```

[24]
```
x
```

| | PatientID | Name | Age | BloodPressure | HeartRate |
|---|---|---|---|---|---|
| 0 | 101 | Alice | 45.0 | 120 | 70.0 |
| 1 | 102 | Bob | 50.0 | 125 | 75.0 |
| 2 | 103 | Charlie | 45.0 | 130 | 60.0 |
| 3 | 104 | NaN | 60.0 | 140 | 65.0 |
| 4 | 105 | David | 70.0 | 135 | 80.0 |

Next steps: View recommended plots | New interactive sheet

[29]
```
a.dropna(subset=['Name'],inplace=True)
print(a)
```

```
   PatientID     Name   Age  BloodPressure  Cholesterol  HeartRate
0        101    Alice  45.0            120        200.0       70.0
1        102      Bob  50.0            125          NaN       75.0
2        103  Charlie  45.0            130        180.0       60.0
4        105    David  70.0            135        190.0       80.0
```

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