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sample_datapandas.csv

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```
import pandas as pd
a=pd.read_csv('pandas.csv')
print(a)
```

	ID	Name	Age	City	Salary	Email
0	1	David	NaN	London	67278.0	NaN
1	2	Eve	NaN	New York	49865.0	charlie@outlook.com
2	3	Charlie	19.0	New York	NaN	alice@gmail.com
3	4	Eve	57.0	Tokyo	90270.0	charlie@outlook.com
4	5	Eve	37.0	New York	55521.0	charlie@outlook.com
...
10995	8755	Frank	49.0	Berlin	1000000.0	charlie@outlook.com
10996	6741	Eve	28.0	NaN	82025.0	alice@gmail.com
10997	8190	Eve	61.0	new york	68390.0	alice@gmail.com
10998	1908	Charlie	19.0	New York	49469.0	charlie@outlook.com
10999	7529	Eve	68.0	Paris	74617.0	alice@gmail.com

	Join_Date	Department
0	01-01-2010	HR
1	02-01-2010	IT
2	03-01-2010	HR
3	04-01-2010	IT
4	05-01-2010	HR
...
10995	20-12-2033	IT
10996	15-06-2028	NaN
10997	03-06-2032	IT
10998	23-03-2015	HR

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[11000 rows x 8 columns]

[] print(a.isnull())

	ID	Name	Age	City	Salary	Email	Join_Date	Department
0	False	False	True	False	False	True	False	False
1	False	False	True	False	False	False	False	False
2	False	False	False	False	True	False	False	False
3	False	False	False	False	False	False	False	False
4	False	False	False	False	False	False	False	False
...
10995	False	False	False	False	False	False	False	False
10996	False	False	False	True	False	False	False	True
10997	False	False	False	False	False	False	False	False
10998	False	False	False	False	False	False	False	False
10999	False	False	False	False	False	False	False	False

[11000 rows x 8 columns]

[] g=a['Age'].mean()
a['Age'].fillna(g,inplace=True)
print(a)

	ID	Name	Age	City	Salary	Email
0	1	David	43.221998	London	67278.0	NaN
1	2	Eve	43.221998	New York	49865.0	charlie@outlook.com

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```
[ ] g=a['Age'].mean()
a['Age'].fillna(g,inplace=True)
print(a)
```

	ID	Name	Age	City	Salary	Email
0	1	David	43.221998	London	67278.0	NaN
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3	4	Eve	57.000000	Tokyo	90270.0	charlie@outlook.com
4	5	Eve	37.000000	New York	55521.0	charlie@outlook.com
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10997	8190	Eve	61.000000	new york	68390.0	alice@gmail.com
10998	1908	Charlie	19.000000	New York	49469.0	charlie@outlook.com
10999	7529	Eve	68.000000	Paris	74617.0	alice@gmail.com

	Join_Date	Department
0	01-01-2010	HR
1	02-01-2010	IT
2	03-01-2010	HR
3	04-01-2010	IT
4	05-01-2010	HR
...
10995	20-12-2033	IT
10996	15-06-2028	NaN
10997	03-06-2023	IT

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```
[ ] t=a['Salary'].mean()
a['Salary'].fillna(t,inplace=True)
print(a)
```

	ID	Name	Age	City	Salary
0	1	David	43.221998	London	67278.000000
1	2	Eve	43.221998	New York	49865.000000
2	3	Charlie	19.000000	New York	72551.430864
3	4	Eve	57.000000	Tokyo	90270.000000
4	5	Eve	37.000000	New York	55521.000000
...
10995	8755	Frank	49.000000	Berlin	100000.000000
10996	6741	Eve	28.000000	NaN	82025.000000
10997	8190	Eve	61.000000	new york	68390.000000
10998	1908	Charlie	19.000000	New York	49469.000000
10999	7529	Eve	68.000000	Paris	74617.000000

	Email	Join_Date	Department
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1	charlie@outlook.com	02-01-2010	IT
2	alice@gmail.com	03-01-2010	HR
3	charlie@outlook.com	04-01-2010	IT
4	charlie@outlook.com	05-01-2010	HR
...
10995	charlie@outlook.com	20-12-2033	IT
10996	alice@gmail.com	15-06-2028	NaN
10997	alice@gmail.com	02-06-2023	IT

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```
[ ] r=a['Age'].median()
a['Age'].fillna(r,inplace=True)
print(a)
```

	ID	Name	Age	City	Salary
0	1	David	43.221998	London	67278.000000
1	2	Eve	43.221998	New York	49865.000000
2	3	Charlie	19.000000	New York	72551.430864
3	4	Eve	57.000000	Tokyo	90270.000000
4	5	Eve	37.000000	New York	55521.000000
...
10995	8755	Frank	49.000000	Berlin	100000.000000
10996	6741	Eve	28.000000	NaN	82025.000000
10997	8190	Eve	61.000000	new york	68390.000000
10998	1908	Charlie	19.000000	New York	49469.000000
10999	7529	Eve	68.000000	Paris	74617.000000

	Email	Join_Date	Department
0	NaN	01-01-2010	HR
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2	alice@gmail.com	03-01-2010	HR
3	charlie@outlook.com	04-01-2010	IT
4	charlie@outlook.com	05-01-2010	HR
...
10995	charlie@outlook.com	20-12-2033	IT
10996	alice@gmail.com	15-06-2028	NaN
10997	alice@gmail.com	03-06-2023	IT

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```
[ ] w=a['Salary'].median()
a['Salary'].fillna(w,inplace=True)
print(a)
```

	ID	Name	Age	City	Salary
0	1	David	43.221998	London	67278.000000
1	2	Eve	43.221998	New York	49865.000000
2	3	Charlie	19.000000	New York	72551.430864
3	4	Eve	57.000000	Tokyo	90270.000000
4	5	Eve	37.000000	New York	55521.000000
...
10995	8755	Frank	49.000000	Berlin	1000000.000000
10996	6741	Eve	28.000000	NaN	82025.000000
10997	8190	Eve	61.000000	new york	68390.000000
10998	1908	Charlie	19.000000	New York	49469.000000
10999	7529	Eve	68.000000	Paris	74617.000000

	Email	Join_Date	Department
0	NaN	01-01-2010	HR
1	charlie@outlook.com	02-01-2010	IT
2	alice@gmail.com	03-01-2010	HR
3	charlie@outlook.com	04-01-2010	IT
4	charlie@outlook.com	05-01-2010	HR
...
10995	charlie@outlook.com	20-12-2033	IT
10996	alice@gmail.com	15-06-2028	NaN
10997	alice@gmail.com	03-06-2022	IT

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```
[ ] q=a['City'].mode()
a['City'].fillna(q,inplace=True)
print(a)
```

	ID	Name	Age	City	Salary
0	1	David	43.221998	London	67278.000000
1	2	Eve	43.221998	New York	49865.000000
2	3	Charlie	19.000000	New York	72551.430064
3	4	Eve	57.000000	Tokyo	90270.000000
4	5	Eve	37.000000	New York	55521.000000
...
10995	8755	Frank	49.000000	Berlin	100000.000000
10996	6741	Eve	28.000000	NaN	82025.000000
10997	8190	Eve	61.000000	new york	68390.000000
10998	1908	Charlie	19.000000	New York	49469.000000
10999	7529	Eve	68.000000	Paris	74617.000000

	Email	Join Date	Department
0	NaN	01-01-2010	HR
1	charlie@outlook.com	02-01-2010	IT
2	alice@gmail.com	03-01-2010	HR
3	charlie@outlook.com	04-01-2010	IT
4	charlie@outlook.com	05-01-2010	HR
...
10995	charlie@outlook.com	20-12-2033	IT
10996	alice@gmail.com	15-06-2028	NaN
10997	alice@gmail.com	03-06-2032	IT

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```
[ ] a['Email'].fillna('unknown@gmail.com',inplace=True)
print(a)
```

	ID	Name	Age	City	Salary
0	1	David	43.221998	London	67278.000000
1	2	Eve	43.221998	New York	49865.000000
2	3	Charlie	19.000000	New York	72551.430864
3	4	Eve	57.000000	Tokyo	90270.000000
4	5	Eve	37.000000	New York	55521.000000
...
10995	8755	Frank	49.000000	Berlin	1000000.000000
10996	6741	Eve	28.000000	NaN	82025.000000
10997	8190	Eve	61.000000	new york	68390.000000
10998	1908	Charlie	19.000000	New York	49469.000000
10999	7529	Eve	68.000000	Paris	74617.000000

	Email	Join_Date	Department
0	unknown@gmail.com	01-01-2010	HR
1	charlie@outlook.com	02-01-2010	IT
2	alice@gmail.com	03-01-2010	HR
3	charlie@outlook.com	04-01-2010	IT
4	charlie@outlook.com	05-01-2010	HR
...
10995	charlie@outlook.com	20-12-2033	IT
10996	alice@gmail.com	15-06-2028	NaN
10997	alice@gmail.com	03-06-2032	IT
10998	charlie@outlook.com	23-03-2015	HR

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```
[52]: a=pd.read_csv('pandas.csv')
      print(a['ID'].duplicated())

0      False
1      False
2      False
3      False
4      False
...
10995   True
10996   True
10997   True
10998   True
10999   True
Name: ID, Length: 11000, dtype: bool

[ ] print(a.drop_duplicates())

   ID  Name  Age  City  Salary  Email \
0   1  David  NaN  London  67278.0  NaN
1   2    Eve  NaN  New York  49865.0  charlie@outlook.com
2   3  Charlie  19.0  New York  NaN  alice@email.com
3   4    Eve  57.0  Tokyo  90270.0  charlie@outlook.com
4   5    Eve  37.0  New York  55521.0  charlie@outlook.com
...  ...  ...  ...  ...  ...  ...
9995 9996   Bob  NaN  London  59140.0  NaN
9996 9997   Bob  44.0  Berlin  52076.0  alice@email.com
```

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[4] #inconsistent data
import pandas as pd
a=pd.read_csv('pandas.csv')
print(a['City'].unique())

['London' 'New York' 'Tokyo' 'london' 'berlin' 'Paris' 'Berlin' 'new york'
nan]

[7] print(a['City'].str.lower())

0london
1new york
2new york
3tokyo
4new york
...
10995berlin
10996NaN
10997new york
10998new york
10999paris
Name: City, Length: 11000, dtype: object

[8] print(a['City'].str.title())

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[8] print(a['City'].str.title())

0London

1New York

2New York

3Tokyo

4New York

...

10995Berlin

10996NaN

10997New York

10998New York

10999Paris

Name: City, Length: 11000, dtype: object

[10] print(a.dtypes)

IDint64

Nameobject

Agefloat64

Cityobject

Salaryfloat64

Emailobject

Join_Dateobject

Departmentobject

dtype: object

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pandas.csv

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[11] print(a['Salary'].describe())

count9908.000000
mean72551.430864
std109446.861910
min20016.000000
25%39714.500000
50%60831.000000
75%81503.500000
max100000.000000
Name: Salary, dtype: float64

[12] from re import I
q1=a['Salary'].quantile(0.25)
q2=a['Salary'].quantile(0.75)
IQR=q2-q1
u=q2+1.5*IQR
l=q1-1.5*IQR
o=a[(a['Salary']<l)|(a['Salary']>u)]
print(o)

IDNameAgeCitySalaryEmail

198199CharlieNaNnew york100000.0bob@yahoo.com
421422Bob61.0Paris100000.0alice@gmail.com
508509David33.0berlin100000.0NaN
764765Alice54.0New York100000.0NaN

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```
q2=a['Salary'].quantile(0.75)
IQR=q2-q1
u=q2+1.5*IQR
l=q1-1.5*IQR
a['Salary']=a['Salary'].clip(u,l)
print(a)
```

	ID	Name	Age	City	Salary	Email
0	1	David	NaN	London	67278.0	NaN
1	2	Eve	NaN	New York	49865.0	charlie@outlook.com
2	3	Charlie	19.0	New York	NaN	alice@gmail.com
3	4	Eve	57.0	Tokyo	90270.0	charlie@outlook.com
4	5	Eve	37.0	New York	55521.0	charlie@outlook.com
...
10995	8755	Frank	49.0	Berlin	144187.0	charlie@outlook.com
10996	6741	Eve	28.0	NaN	82025.0	alice@gmail.com
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10999	7529	Eve	68.0	Paris	74617.0	alice@gmail.com

	Join_Date	Department
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1	02-01-2010	IT
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3	04-01-2010	IT
4	05-01-2010	HR
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pandas.csv

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```
[17] q1=a['Salary'].quantile(0.25)
      q2=a['Salary'].quantile(0.75)
      IQR=q2-q1
      u=q2+1.5*IQR
      l=q1-1.5*IQR
      a=a[(a['Salary']>=l)&(a['Salary']<=u)]
      print(a)
```

	ID	Name	Age	City	Salary	Email
0	1	David	NaN	London	67278.0	NaN
1	2	Eve	NaN	New York	49865.0	charlie@outlook.com
3	4	Eve	57.0	Tokyo	90270.0	charlie@outlook.com
4	5	Eve	37.0	New York	55521.0	charlie@outlook.com
5	6	Bob	51.0	London	26505.0	charlie@outlook.com
...
10995	8755	Frank	49.0	Berlin	144187.0	charlie@outlook.com
10996	6741	Eve	28.0	NaN	82025.0	alice@gmail.com
10997	8190	Eve	61.0	new york	68390.0	alice@gmail.com
10998	1908	Charlie	19.0	New York	49469.0	charlie@outlook.com
10999	7529	Eve	68.0	Paris	74617.0	alice@gmail.com

	Join_Date	Department
0	01-01-2010	HR
1	02-01-2010	IT
3	04-01-2010	IT
4	05-01-2010	HR

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sample_datapandas.csv

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```
[27] a=pd.read_csv('pandas.csv')
a['Join_Date']=pd.to_datetime(a['Join_Date'])
a
```

	ID	Name	Age	City	Salary	Email	Join_Date	Department
0	1	David	NaN	London	67278.0	NaN	2010-01-01	HR
1	2	Eve	NaN	New York	49865.0	charlie@outlook.com	2010-01-02	IT
2	3	Charlie	19.0	New York	NaN	alice@gmail.com	2010-01-03	HR
3	4	Eve	57.0	Tokyo	90270.0	charlie@outlook.com	2010-01-04	IT
4	5	Eve	37.0	New York	55521.0	charlie@outlook.com	2010-01-05	HR
...
10995	8755	Frank	49.0	Berlin	1000000.0	charlie@outlook.com	2033-12-20	IT
10996	6741	Eve	28.0	NaN	82025.0	alice@gmail.com	2028-06-15	NaN
10997	8190	Eve	61.0	new york	68390.0	alice@gmail.com	2032-06-03	IT
10998	1908	Charlie	19.0	New York	49469.0	charlie@outlook.com	2015-03-23	HR
10999	7529	Eve	68.0	Paris	74617.0	alice@gmail.com	2030-08-12	Sales

11000 rows x 8 columns

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Files

- sample_data
- pandas.csv

+ Code + Text

```
[30] print(a.dtypes)
print(a.info())
```

ID int64
Name object
Age float64
City object
Salary float64
Email object
Join_Date datetime64[ns]
Department object
dtype: object
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 11000 entries, 0 to 10999
Data columns (total 8 columns):
Column Non-Null Count Dtype

0 ID 11000 non-null int64
1 Name 11000 non-null object
2 Age 9892 non-null float64
3 City 9915 non-null object
4 Salary 9908 non-null float64
5 Email 7408 non-null object
6 Join_Date 11000 non-null datetime64[ns]
7 Department 8847 non-null object
dtypes: datetime64[ns](1), float64(2), int64(1), object(4)

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sample_datapandas.csv

+ Code+ Text

[31] print(a['Department'].isnull())

0False

1False

2False

3False

4False

...

10995False

10996True

10997False

10998False

10999False

Name: Department, Length: 11000, dtype: bool

a['Department'].fillna('unknown',inplace=True)

print(a)

	ID	Name	Age	City	Salary	Email
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1	2	Eve	NaN	New York	49865.0	charlie@outlook.com
2	3	Charlie	19.0	New York	NaN	alice@gmail.com
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4	5	Eve	37.0	New York	55521.0	charlie@outlook.com
...

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Files

sample_datapandas.csv

+ Code + Text

```
a['Department'].fillna('unknown',inplace=True)
print(a)
```

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	Join_Date	Department
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2	2010-01-03	HR
3	2010-01-04	IT
4	2010-01-05	HR
...
10995	2033-12-20	IT
10996	2028-06-15	unknown
10997	2032-06-03	IT
10998	2015-03-23	HR

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