

Data Acquisition

#Exp no:2

#Aim: To perform operation of Data Acquisition

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#Sec: B

#Subject:ET - 1

```
import pandas as pd
```

```
import os
```

```
os.getcwd()
```

```
'C:\\Users\\anush'
```

```
os.chdir("C:\\Users\\anush\\OneDrive\\Documents\\Desktop")
```

```
df=pd.read_csv("diabetes.csv")
```

```
df.head()
```

	Pregnancies	Glucose	BloodPressure	SkinThickness	Insulin	BMI
0	6	148	72	35	0	33.6
1	1	85	66	29	0	26.6
2	8	183	64	0	0	23.3
3	1	89	66	23	94	28.1
4	0	137	40	35	168	43.1

	DiabetesPedigreeFunction	Age	Outcome
0	0.627	50	1
1	0.351	31	0
2	0.672	32	1
3	0.167	21	0
4	2.288	33	1

```
df.tail(4)
```

	Pregnancies	Glucose	BloodPressure	SkinThickness	Insulin	BMI
764	2	122	70	27	0	36.8

765	5	121	72	23	112	26.2
766	1	126	60	0	0	30.1
767	1	93	70	31	0	30.4

	DiabetesPedigreeFunction	Age	Outcome
764	0.340	27	0
765	0.245	30	0
766	0.349	47	1
767	0.315	23	0

df.describe()

	Pregnancies	Glucose	BloodPressure	SkinThickness
Insulin \				
count	768.000000	768.000000	768.000000	768.000000
mean	3.845052	120.894531	69.105469	20.536458
std	3.369578	31.972618	19.355807	15.952218
min	0.000000	0.000000	0.000000	0.000000
25%	1.000000	99.000000	62.000000	0.000000
50%	3.000000	117.000000	72.000000	23.000000
75%	6.000000	140.250000	80.000000	32.000000
max	17.000000	199.000000	122.000000	99.000000

	BMI	DiabetesPedigreeFunction	Age	Outcome
count	768.000000	768.000000	768.000000	768.000000
mean	31.992578	0.471876	33.240885	0.348958
std	7.884160	0.331329	11.760232	0.476951
min	0.000000	0.078000	21.000000	0.000000
25%	27.300000	0.243750	24.000000	0.000000
50%	32.000000	0.372500	29.000000	0.000000
75%	36.600000	0.626250	41.000000	1.000000
max	67.100000	2.420000	81.000000	1.000000

df.info()

<class 'pandas.core.frame.DataFrame'>

RangeIndex: 768 entries, 0 to 767

Data columns (total 9 columns):

#	Column	Non-Null Count	Dtype
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0	Pregnancies	768	non-null	int64
1	Glucose	768	non-null	int64
2	BloodPressure	768	non-null	int64
3	SkinThickness	768	non-null	int64
4	Insulin	768	non-null	int64
5	BMI	768	non-null	float64
6	DiabetesPedigreeFunction	768	non-null	float64
7	Age	768	non-null	int64
8	Outcome	768	non-null	int64

dtypes: float64(2), int64(7)

memory usage: 54.1 KB