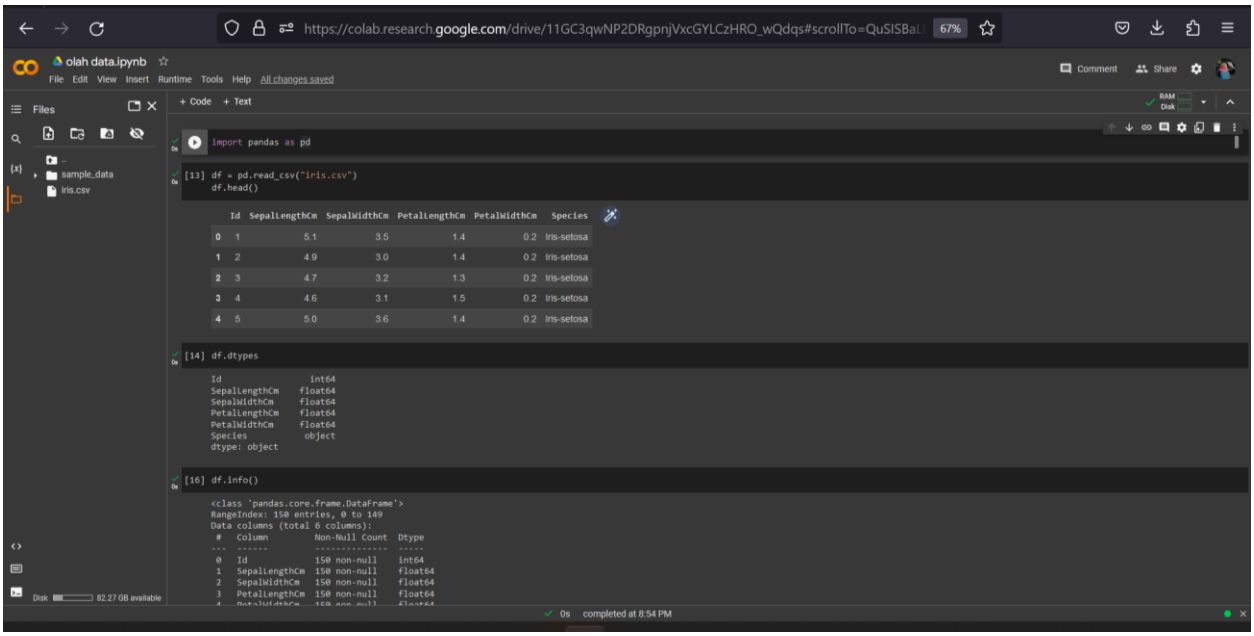
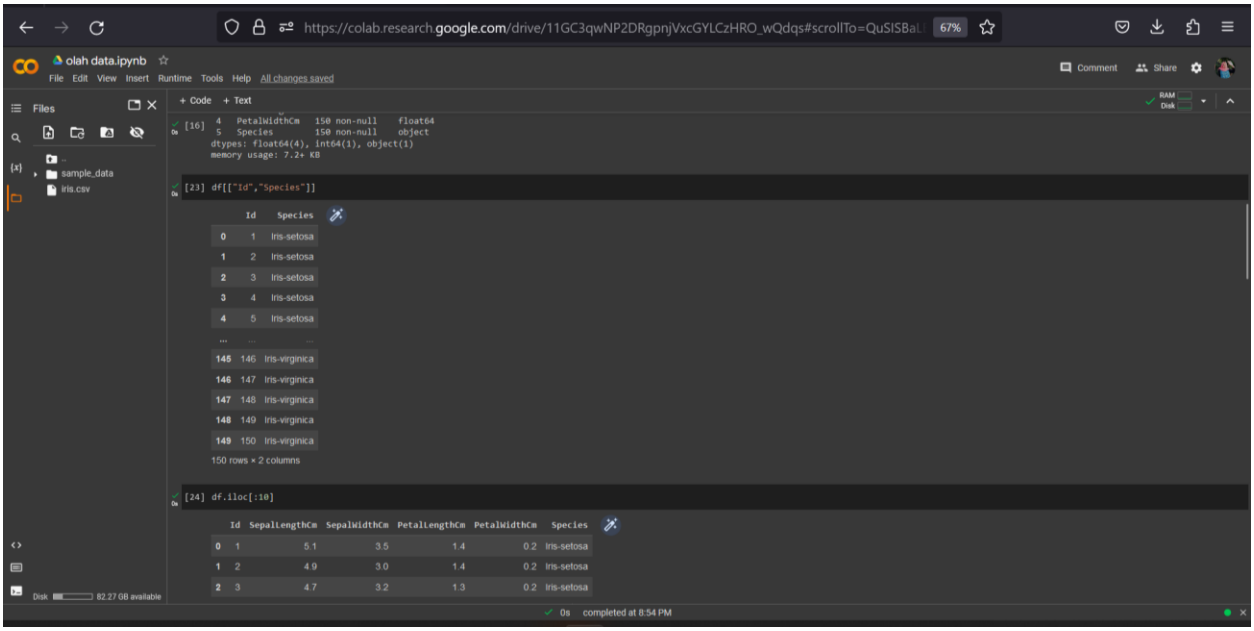
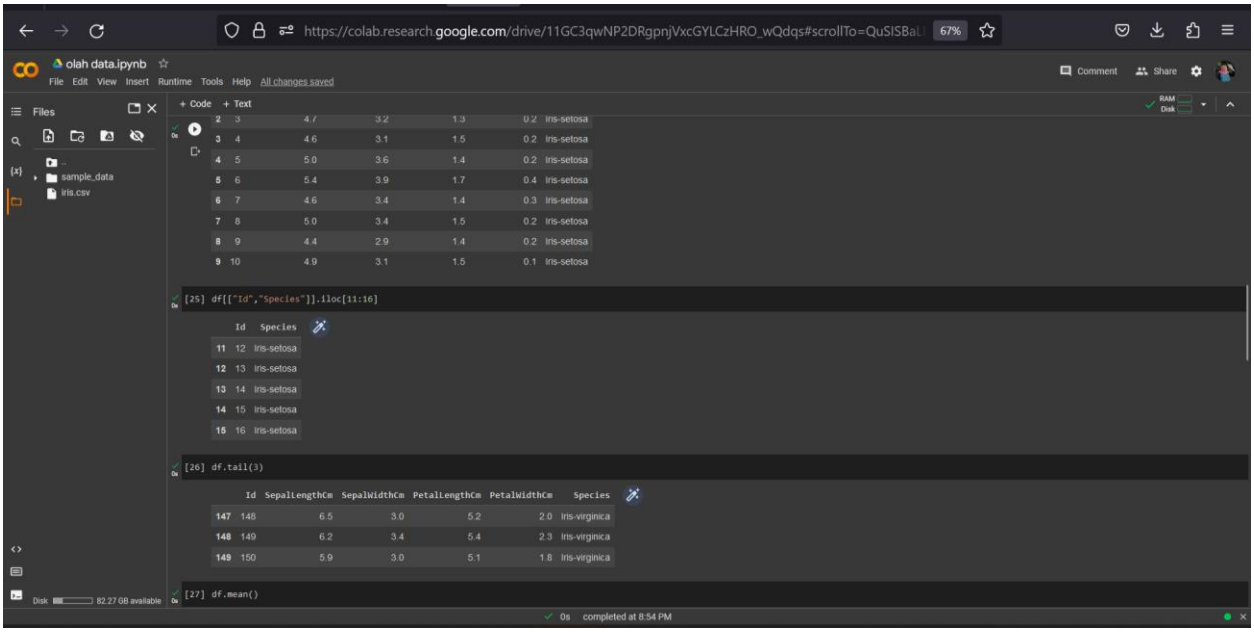
Nama : Jahrawati

Nim : 20.01.013.050

01. Olah data iris database







olah data.ipynb

	Id	SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm	Species
2	3	4.7	3.2	1.3	0.2	Iris-setosa
3	4	4.6	3.1	1.5	0.2	Iris-setosa
4	5	5.0	3.6	1.4	0.2	Iris-setosa
5	6	5.4	3.9	1.7	0.4	Iris-setosa
6	7	4.6	3.4	1.4	0.3	Iris-setosa
7	8	5.0	3.4	1.5	0.2	Iris-setosa
8	9	4.4	2.9	1.4	0.2	Iris-setosa
9	10	4.9	3.1	1.5	0.1	Iris-setosa

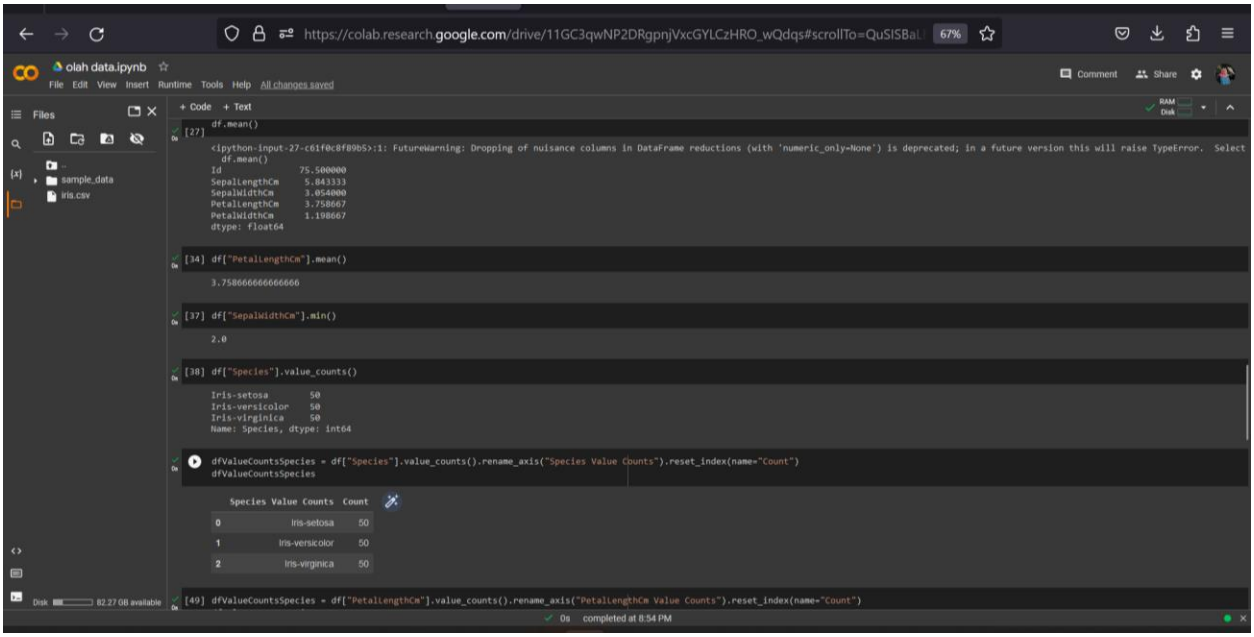
```
[25] df[["Id","Species"]].iloc[11:16]
```

	Id	Species
11	12	Iris-setosa
12	13	Iris-setosa
13	14	Iris-setosa
14	15	Iris-setosa
15	16	Iris-setosa

```
[26] df.tail(3)
```

	Id	SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm	Species
147	148	6.5	3.0	5.2	2.0	Iris-virginica
148	149	6.2	3.4	5.4	2.3	Iris-virginica
149	150	5.9	3.0	5.1	1.8	Iris-virginica

```
[27] df.mean()
```



olah data.ipynb

```
[27] df.mean()

<ipython-input-27-c61f0c8f89b5>:1: FutureWarning: Dropping of nuisance columns in DataFrame reductions (with 'numeric_only=None') is deprecated; in a future version this will raise TypeError.  Select
  df.mean()
Id               75.500000
SepalLengthCm     5.843333
SepalWidthCm      3.054000
PetalLengthCm     3.758667
PetalWidthCm      1.198667
dtype: float64
```

```
[34] df["PetalLengthCm"].mean()

3.758666666666666
```

```
[37] df["SepalWidthCm"].min()

2.0
```

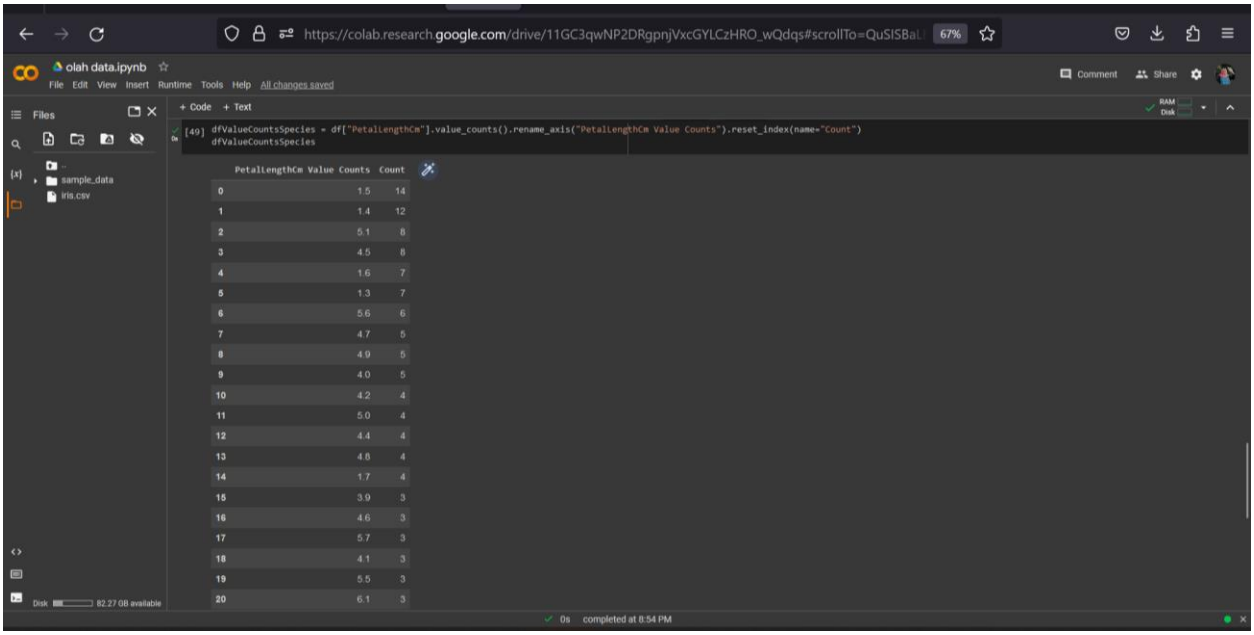
```
[38] df["Species"].value_counts()

Iris-setosa        50
Iris-versicolor    50
Iris-virginica     50
Name: Species, dtype: int64
```

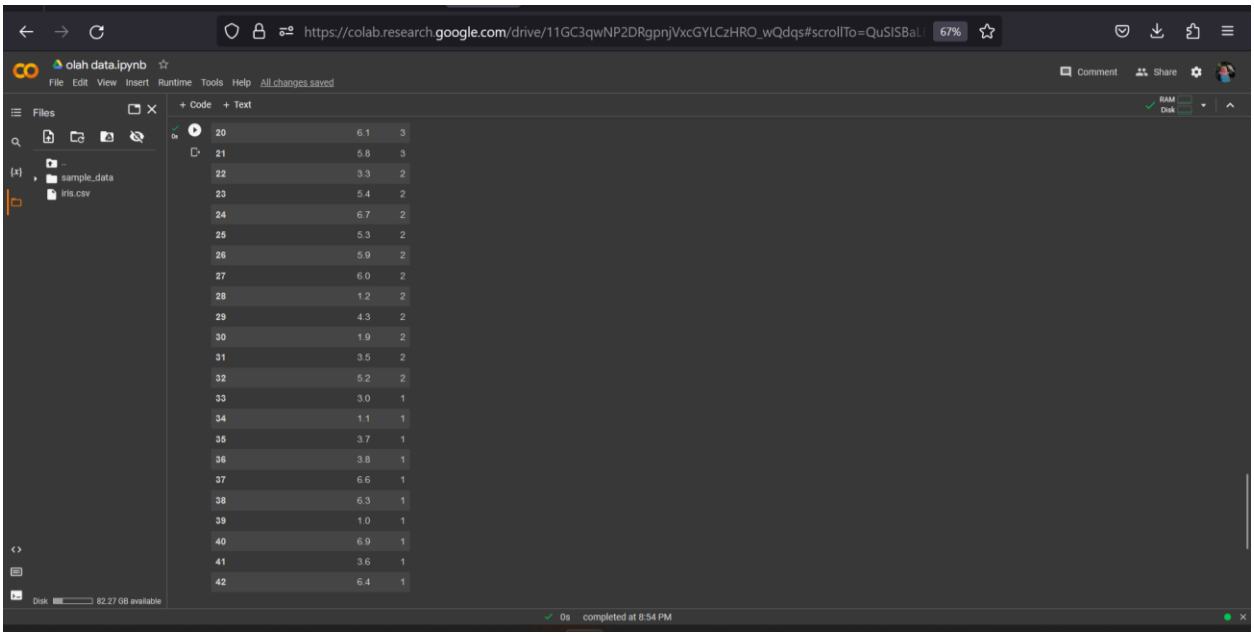
```
dfValueCountsSpecies = df["Species"].value_counts().rename_axis("Species Value Counts").reset_index(name="Count")
dfValueCountsSpecies
```

	Species Value Counts	Count
0	Iris-setosa	50
1	Iris-versicolor	50
2	Iris-virginica	50

```
[49] dfValueCountsSpecies = df["PetalLengthCm"].value_counts().rename_axis("PetalLengthCm Value Counts").reset_index(name="Count")
```



	PetalLengthCm Value Counts	Count
0	1.5	14
1	1.4	12
2	5.1	8
3	4.5	8
4	1.6	7
5	1.3	7
6	5.6	6
7	4.7	5
8	4.9	5
9	4.0	5
10	4.2	4
11	5.0	4
12	4.4	4
13	4.8	4
14	1.7	4
15	3.9	3
16	4.6	3
17	5.7	3
18	4.1	3
19	5.5	3
20	6.1	3



20	6.1	3
21	5.8	3
22	3.3	2
23	5.4	2
24	6.7	2
25	5.3	2
26	5.9	2
27	6.0	2
28	1.2	2
29	4.3	2
30	1.9	2
31	3.5	2
32	5.2	2
33	3.0	1
34	1.1	1
35	3.7	1
36	3.8	1
37	6.6	1
38	6.3	1
39	1.0	1
40	6.9	1
41	3.6	1
42	6.4	1