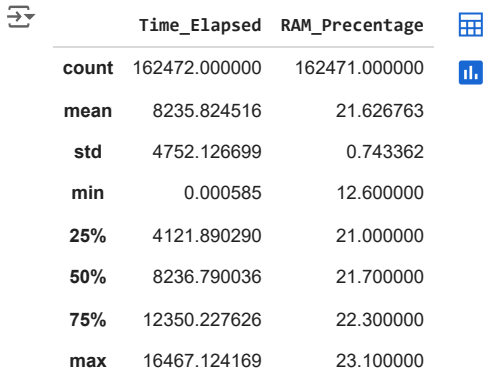


```
import pandas as pd
import seaborn as sns
from matplotlib import dates as mpl_date
import matplotlib.pyplot as plt
```

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

```
df.drop(columns=df.columns[0], axis=1, inplace=True)
```

```
df.describe()
```

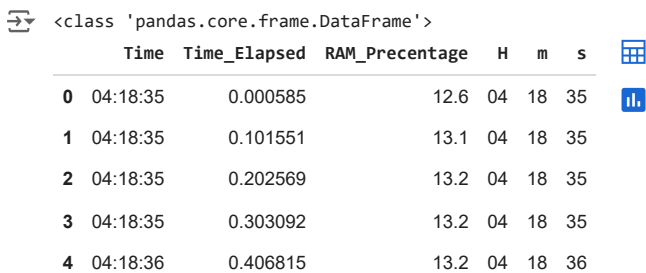


	Time_Elapsed	RAM_Precentage
<b>count</b>	162472.000000	162471.000000
<b>mean</b>	8235.824516	21.626763
<b>std</b>	4752.126699	0.743362
<b>min</b>	0.000585	12.600000
<b>25%</b>	4121.890290	21.000000
<b>50%</b>	8236.790036	21.700000
<b>75%</b>	12350.227626	22.300000
<b>max</b>	16467.124169	23.100000

```
dfH = []
dfm = []
dfs = []
for index, row in df.iterrows():
    timestamp = row['Time']
    H,m,s = timestamp.split(':')
    dfH.append(H)
    dfm.append(m)
    dfs.append(s)
```

```
df['H'] = dfH
df['m'] = dfm
df['s'] = dfs
```

```
print(type(df))
df.head()
```




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




	Time	Time_Elapsed	RAM_Precentage	H	m	s
0	04:18:35	0.000585	12.6	04	18	35
1	04:18:35	0.101551	13.1	04	18	35
2	04:18:35	0.202569	13.2	04	18	35
3	04:18:35	0.303092	13.2	04	18	35
4	04:18:36	0.406815	13.2	04	18	36

```
Time = []
for index, row in df.iterrows():
    Time.append(row['H']+' ':' '+row['m']+' ':' '+row['s'])
```

```
newDF = pd.DataFrame()
newDF['Time'] = Time
newDF['RAM_Precentage'] = df['RAM_Precentage']
newDF['Time'] = pd.to_datetime(newDF['Time'])
newDF
```




<ipython-input-8-a2a4d2ff5a52>:8: UserWarning: Could not infer format, so each element will be parsed individually, falling back to newDF['Time'] = pd.to\_datetime(newDF['Time'])

	Time	RAM_Percentage	
0	2024-06-22 04:18:35	12.6	
1	2024-06-22 04:18:35	13.1	
2	2024-06-22 04:18:35	13.2	
3	2024-06-22 04:18:35	13.2	
4	2024-06-22 04:18:36	13.2	
...	...	...	
162467	2024-06-22 08:53:02	22.9	
162468	2024-06-22 08:53:02	22.9	
162469	2024-06-22 08:53:02	22.9	
162470	2024-06-22 08:53:02	22.9	
162471	2024-06-22 08:53:02	NaN	


162472 rows × 2 columns




```
!pip install pandasql
```



Collecting pandasql  
 Downloading pandasql-0.7.3.tar.gz (26 kB)  
 Preparing metadata (setup.py) ... done  
Requirement already satisfied: numpy in /usr/local/lib/python3.10/dist-packages (from pandasql) (1.25.2)  
Requirement already satisfied: pandas in /usr/local/lib/python3.10/dist-packages (from pandasql) (2.0.3)  
Requirement already satisfied: sqlalchemy in /usr/local/lib/python3.10/dist-packages (from pandasql) (2.0.30)  
Requirement already satisfied: python-dateutil>=2.8.2 in /usr/local/lib/python3.10/dist-packages (from pandas->pandasql) (2.8.2)  
Requirement already satisfied: pytz>=2020.1 in /usr/local/lib/python3.10/dist-packages (from pandas->pandasql) (2023.4)  
Requirement already satisfied: tzdata>=2022.1 in /usr/local/lib/python3.10/dist-packages (from pandas->pandasql) (2024.1)  
Requirement already satisfied: typing-extensions>=4.6.0 in /usr/local/lib/python3.10/dist-packages (from sqlalchemy->pandasql) (4.1)  
Requirement already satisfied: greenlet!=0.4.17 in /usr/local/lib/python3.10/dist-packages (from sqlalchemy->pandasql) (3.0.3)  
Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.10/dist-packages (from python-dateutil>=2.8.2->pandas->pandasql) (1.16.0)  
Building wheels for collected packages: pandasql  
 Building wheel for pandasql (setup.py) ... done  
 Created wheel for pandasql: filename=pandasql-0.7.3-py3-none-any.whl size=26771 sha256=dbc2352aae139e29414fde4ead8f3f101f8186c83  
 Stored in directory: /root/.cache/pip/wheels/e9/bc/3a/8434bdcccf5779e72894a9b24fecbdcaf97940607eaf4bcd9f9  
Successfully built pandasql  
Installing collected packages: pandasql  
Successfully installed pandasql-0.7.3

```
from pandasql import sqldf
sql = lambda q: sqldf(q, globals())
newDF = sqldf("SELECT * FROM newDF WHERE Time BETWEEN '2024-06-22 04:18:35' AND '2024-06-22 04:19:35'")
newDF
```



	Time	RAM_Percentage	
0	2024-06-22 04:18:35.000000	12.6	
1	2024-06-22 04:18:35.000000	13.1	
2	2024-06-22 04:18:35.000000	13.2	
3	2024-06-22 04:18:35.000000	13.2	
4	2024-06-22 04:18:36.000000	13.2	
...	...	...	
579	2024-06-22 04:19:34.000000	21.4	
580	2024-06-22 04:19:34.000000	21.4	
581	2024-06-22 04:19:34.000000	21.4	
582	2024-06-22 04:19:34.000000	21.4	
583	2024-06-22 04:19:34.000000	21.4	

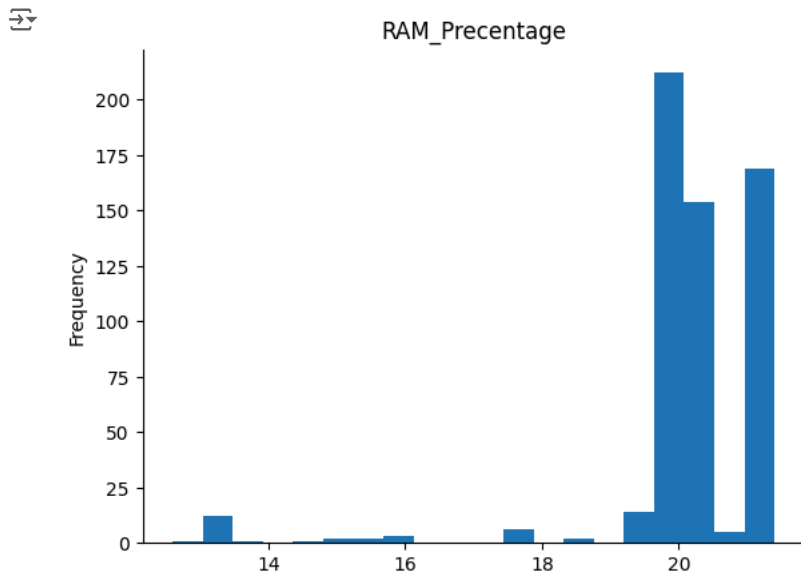
584 rows × 2 columns

Langkah berikutnya:

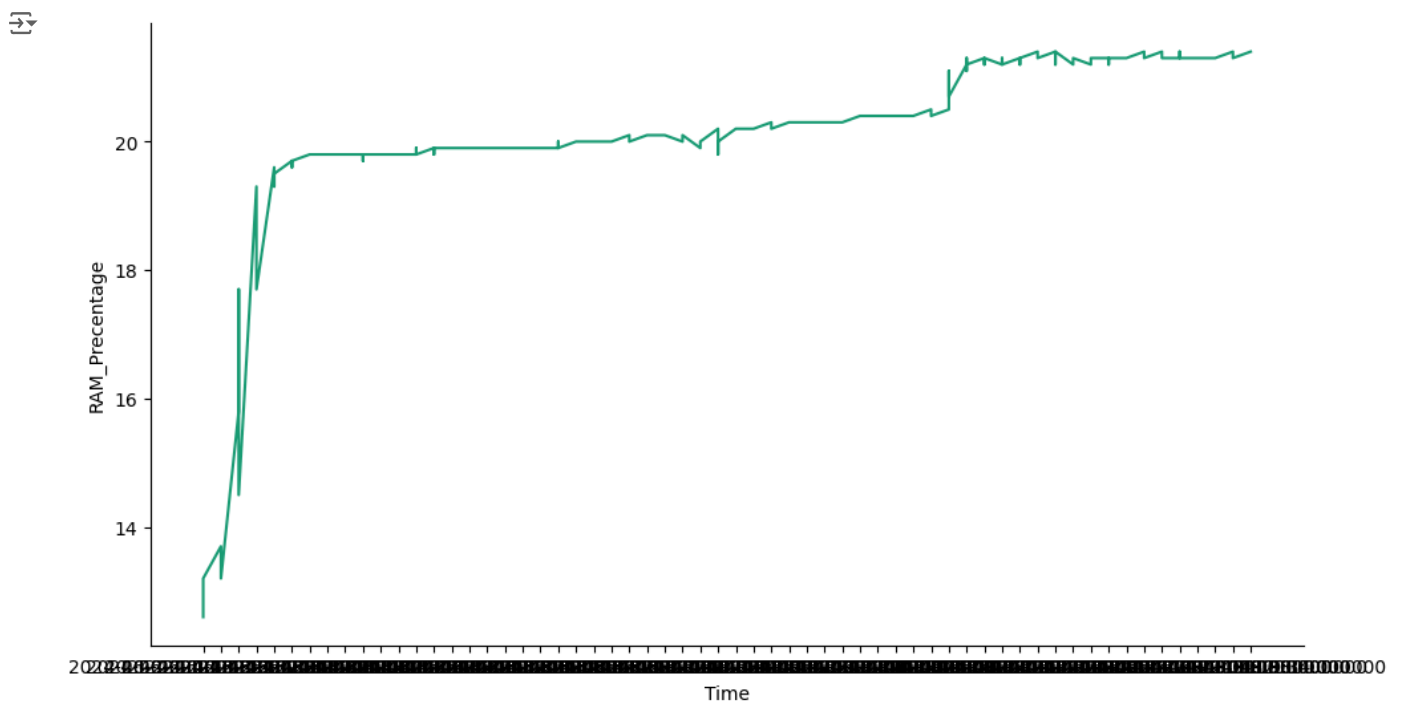
 Buat kode dengan newDF

 Lihat plot yang direkomendasikan

> RAM\_Percentage

[Tampilkan kode](#)

### > Time vs RAM\_Percentage

[Tampilkan kode](#)

### > Time vs count()

[Tampilkan kode](#)

