```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
%matplotlib inline
plt.rcParams['figure.dpi'] = 150
```

```
df = pd.read_excel("/content/drive/MyDrive/Data Sales.xlsx")
```

```
df.head()
```

	Order ID	Order Date	Cust No.	Area	Order Status	Pay	Payment Amount
0	2	2021-08-15	1	Jakarta Pusat	Selesai	Lunas	1,000,000
1	3	2021-08-15	2	Jakarta Barat	Selesai	Lunas	1,000,000
2	4	2021-08-15	3	Jakarta Timur	Selesai	Lunas	1,000,000
3	5	2021-08-15	4	Jakarta Utara	Selesai	Lunas	1,000,000
4	6	2021-08-15	5	Jakarta Selatan	Selesai	Lunas	1,000,000

```
df.tail()
```

	Order ID	Order Date	Cust No.	Area	Order Status	Pay	Payment Amount
1996	1975	2021-07-27	1963	Jakarta Timur	Kirimkan	Lunas	15,000,000
1997	1976	2021-07-27	1964	Jakarta Utara	Kirimkan	Lunas	15,000,000
1998	1977	2021-07-27	1965	Jakarta Selatan	Kirimkan	Lunas	15,000,000
1999	1978	2021-07-27	1966	Tangerang Selatan	Kirimkan	Lunas	15,000,000
2000	1979	2021-07-27	1967	Tangerang	Kirimkan	Lunas	15,000,000

1997 rows × 7 columns

```
df.shape
```

```
(2000, 7)
```

```
df.info()
```

```
<class 'DataFrame'>
RangeIndex: 2000 entries, 0 to 1999
Data columns (total 7 columns):
 #   Order ID        2000 non-null   int64
 #   Order Date      2000 non-null   datetime64[ns]
 #   Cust No.        2000 non-null   int64
 #   Area            2000 non-null   object
 #   Order Status    2000 non-null   object
 #   Pay             2000 non-null   object
 #   Payment Amount  2000 non-null   object
dtypes: datetime64[ns], int64(3), object(4)
memory usage: 110.1+ KB
```

```
df.value_counts().sort_values
```

```
Order ID  Order Date  Cust No.  Area            Order Status  Pay     Payment Amount
2         2021-08-15  1         Jakarta Pusat   Selesai       Lunas   1,000,000       1
1979      2021-07-27  1966      Tangerang       Kirimkan      Lunas   15,000,000      1
1977      2021-07-27  1965      Jakarta Selatan Kirimkan      Lunas   15,000,000      1
1976      2021-07-27  1964      Jakarta Utara   Kirimkan      Lunas   15,000,000      1
1975      2021-07-27  1963      Jakarta Timur   Kirimkan      Lunas   15,000,000      1
                                                                                       ..
1000      2021-02-15  501       Jakarta Timur   Selesai       Lunas   5,000,000       1
999       2021-02-15  500       Jakarta Utara   Selesai       Lunas   5,000,000       1
998       2021-02-15  499       Jakarta Selatan Selesai       Lunas   5,000,000       1
997       2021-02-15  498       Tangerang Selatan Selesai     Lunas   5,000,000       1
996       2021-02-15  497       Tangerang       Selesai       Lunas   5,000,000       1
Name: count, Length: 1997, dtype: int64
```

```
df[df['Order ID'] == df['Order ID'].unique()].sort_values(ascending=True)
```

	Order ID	Order Date	Cust No.	Area	Order Status	Pay	Payment Amount
0	2	2021-08-15	1	Jakarta Pusat	Selesai	Lunas	1,000,000
1	3	2021-08-15	2	Jakarta Barat	Selesai	Lunas	1,000,000
2	4	2021-08-15	3	Jakarta Timur	Selesai	Lunas	1,000,000
3	5	2021-08-15	4	Jakarta Utara	Selesai	Lunas	1,000,000
4	6	2021-08-15	5	Jakarta Selatan	Selesai	Lunas	1,000,000

```
df.shape
```

```
(2000, 7)
```

```
df.drop_duplicates(inplace=True)
```

```
df.shape
```

```
(1997, 7)
```

```
df.info()
```

```
<class 'DataFrame'>
Int64Index: 1997 entries, 0 to 1996
Data columns (total 7 columns):
 #   Order ID        1997 non-null   int64
 #   Order Date      1997 non-null   datetime64[ns]
 #   Cust No.        1997 non-null   int64
 #   Area            1997 non-null   object
 #   Order Status    1997 non-null   object
 #   Pay             1997 non-null   object
 #   Payment Amount  1997 non-null   object
dtypes: datetime64[ns], int64(3), object(4)
memory usage: 124.8+ KB
```

```
df.isnull().sum()
```

```
Order ID        0
Order Date      0
Cust No.        0
Area            0
Order Status    0
Pay             0
Payment Amount  0
dtype: int64
```

```
df.isna().sum()
```

```
Order ID        0
Order Date      0
Cust No.        0
Area            0
Order Status    0
Pay             0
Payment Amount  0
dtype: int64
```

```
df.duplicated().sum()
```

```
0
```

```
df.nunique()
```

```
Order ID        1997
Order Date       365
Cust No.         500
Area              10
Order Status       3
Pay                1
Payment Amount     9
dtype: int64
```

```
df.drop(['Pay'], axis=1, inplace=True)
```

```
df.sample(5)
```

	Order ID	Order Date	Cust No.	Area	Order Status	Payment Amount
1	3	2021-08-15	2	Jakarta Barat	Selesai	1,000,000
2	4	2021-08-15	3	Jakarta Timur	Selesai	1,000,000
3	5	2021-08-15	4	Jakarta Utara	Selesai	1,000,000
4	6	2021-08-15	5	Jakarta Selatan	Selesai	1,000,000
5	7	2021-08-15	6	Tangerang	Selesai	1,000,000

```
df.rename(columns={'Payment Amount': 'Pay'})
```

	Order ID	Order Date	Cust No.	Area	Order Status	Pay
0	2	2021-08-15	1	Jakarta Pusat	Selesai	1,000,000
1	3	2021-08-15	2	Jakarta Barat	Selesai	1,000,000
2	4	2021-08-15	3	Jakarta Timur	Selesai	1,000,000
3	5	2021-08-15	4	Jakarta Utara	Selesai	1,000,000
4	6	2021-08-15	5	Jakarta Selatan	Selesai	1,000,000

```
df.rename(columns={'Payment Amount': 'Pay'}, inplace=True)
```

```
df.sample(5)
```

	Order ID	Order Date	Cust No.	Area	Order Status	Pay
1	3	2021-08-15	2	Jakarta Barat	Selesai	1,000,000
2	4	2021-08-15	3	Jakarta Timur	Selesai	1,000,000
3	5	2021-08-15	4	Jakarta Utara	Selesai	1,000,000
4	6	2021-08-15	5	Jakarta Selatan	Selesai	1,000,000
5	7	2021-08-15	6	Tangerang	Selesai	1,000,000

```
df.shape
```

```
(1997, 6)
```

```
df.info()
```

```
<class 'DataFrame'>
Int64Index: 1997 entries, 0 to 1996
Data columns (total 6 columns):
 #   Order ID        1997 non-null   int64
 #   Order Date      1997 non-null   datetime64[ns]
 #   Cust No.        1997 non-null   int64
 #   Area            1997 non-null   object
 #   Order Status    1997 non-null   object
 #   Pay             1997 non-null   object
dtypes: datetime64[ns], int64(3), object(3)
memory usage: 109.2+ KB
```

```
df.describe()
```

	Order ID	Cust No.
count	1997.000000	1997.000000
mean	1000.000000	501.000000
std	576.819027	288.819436
min	2.000000	1.000000
25%	501.000000	251.000000
50%	1000.000000	501.000000
75%	1499.000000	751.000000
max	1999.000000	1000.000000

```
df.describe(include='object')
```

	Area	Order Status
count	1997	1997
unique	10	3
top	Jakarta Selatan	Selesai
freq	207	1997

```
df.describe(include='datetime')
```

	Order Date
count	1997
mean	2021-04-30 00:00:00
min	2021-02-15 00:00:00
25%	2021-03-15 00:00:00
50%	2021-04-30 00:00:00
75%	2021-06-15 00:00:00
max	2021-08-15 00:00:00

```
df.value_counts()
```

```
Order ID  Order Date  Cust No.  Area            Order Status  Pay     Payment Amount
2         2021-08-15  1         Jakarta Pusat   Selesai       Lunas   1,000,000       1
1979      2021-07-27  1966      Tangerang       Kirimkan      Lunas   15,000,000      1
1977      2021-07-27  1965      Jakarta Selatan Kirimkan      Lunas   15,000,000      1
1976      2021-07-27  1964      Jakarta Utara   Kirimkan      Lunas   15,000,000      1
1975      2021-07-27  1963      Jakarta Timur   Kirimkan      Lunas   15,000,000      1
                                                                                       ..
1000      2021-02-15  501       Jakarta Timur   Selesai       Lunas   5,000,000       1
999       2021-02-15  500       Jakarta Utara   Selesai       Lunas   5,000,000       1
998       2021-02-15  499       Jakarta Selatan Selesai       Lunas   5,000,000       1
997       2021-02-15  498       Tangerang Selatan Selesai     Lunas   5,000,000       1
996       2021-02-15  497       Tangerang       Selesai       Lunas   5,000,000       1
Name: count, Length: 1997, dtype: int64
```

```
df[df['Payment Amount'].str.contains('%')]
```

	Order ID	Order Date	Cust No.	Area	Order Status	Pay	Payment Amount
1	3	2021-08-15	2	Jakarta Barat	Selesai	Lunas	1,000,000
2	4	2021-08-15	3	Jakarta Timur	Selesai	Lunas	1,000,000
3	5	2021-08-15	4	Jakarta Utara	Selesai	Lunas	1,000,000
4	6	2021-08-15	5	Jakarta Selatan	Selesai	Lunas	1,000,000
5	7	2021-08-15	6	Tangerang	Selesai	Lunas	1,000,000

```
df.replace(to_replace=[',', '%'], value=[', ', ''], regex=True)
```

	Order ID	Order Date	Cust No.	Area	Order Status	Pay	Payment Amount
1	3	2021-08-15	2	Jakarta Barat	Selesai	Lunas	1,000,000
2	4	2021-08-15	3	Jakarta Timur	Selesai	Lunas	1,000,000
3	5	2021-08-15	4	Jakarta Utara	Selesai	Lunas	1,000,000
4	6	2021-08-15	5	Jakarta Selatan	Selesai	Lunas	1,000,000
5	7	2021-08-15	6	Tangerang	Selesai	Lunas	1,000,000

```
df.replace(to_replace=[',', '%'], value=[', ', ''], regex=True).sample(5
```

```
In [1]: plt.figure(figsize=(15,7))
        sns.barplot(data=df['Total Revenue'].sort_values(ascending=False),
        plt.xlabel('Total Revenue',
        plt.ylabel('Product',
        plt.xticks(ticks=[0,500000,1000000,1500000,2000000,2500000,3000000,3500000,4000000,4500000,5000000,5500000,6000000,6500000,7000000,7500000,8000000,8500000,9000000,9500000,10000000,10500000,11000000,11500000,12000000,12500000,13000000,13500000,14000000,14500000,15000000,15500000,16000000,16500000,17000000,17500000,18000000,18500000,19000000,19500000,20000000,20500000,21000000,21500000,22000000,22500000,23000000,23500000,24000000,24500000,25000000,25500000,26000000,26500000,27000000,27500000,28000000,28500000,29000000,29500000,30000000,30500000,31000000,31500000,32000000,32500000,33000000,33500000,34000000,34500000,35000000,35500000,36000000,36500000,37000000,37500000,38000000,38500000,39000000,39500000,40000000,40500000,41000000,41500000,42000000,42500000,43000000,43500000,44000000,44500000,45000000,45500000,46000000,46500000,47000000,47500000,48000000,48500000,49000000,49500000,50000000,50500000,51000000,51500000,52000000,52500000,53000000,53500000,54000000,54500000,55000000,55500000,56000000,56500000,57000000,57500000,58000000,58500000,59000000,59500000,60000000,60500000,61000000,61500000,62000000,62500000,63000000,63500000,64000000,64500000,65000000,65500000,66000000,66500000,67000000,67500000,68000000,68500000,69000000,69500000,70000000,70500000,71000000,71500000,72000000,72500000,73000000,73500000,74000000,74500000,75000000,75500000,76000000,76500000,77000000,77500000,78000000,78500000,79000000,79500000,80000000,80500000,81000000,81500000,82000000,82500000,83000000,83500000,84000000,84500000,85000000,85500000,86000000,86500000,87000000,87500000,88000000,88500000,89000000,89500000,90000000,90500000,91000000,91500000,92000000,92500000,93000000,93500000,94000000,94500000,95000000,95500000,96000000,96500000,97000000,97500000,98000000,98500000,99000000,99500000,100000000,100500000,101000000,101500000,102000000,102500000,103000000,103500000,104000000,104500000,105000000,105500000,106000000,106500000,107000000,107500000,108000000,108500000,109000000,109500000,110000000,110500000,111000000,111500000,112000000,112500000,113000000,113500000,114000000,114500000,115000000,115500000,116000000,116500000,117000000,117500000,118000000,118500000,119000000,119500000,120000000,120500000,121000000,121500000,122000000,122500000,123000000,123500000,124000000,124500000,125000000,125500000,126000000,126500000,127000000,127500000,128000000,128500000,129000000,129500000,130000000,130500000,131000000,131500000,132000000,132500000,133000000,133500000,134000000,134500000,135000000,135500000,136000000,136500000,137000000,137500000,138000000,138500000,139000000,139500000,140000000,140500000,141000000,141500000,142000000,142500000,143000000,143500000,144000000,144500000,145000000,145500000,146000000,146500000,147000000,147500000,148000000,148500000,149000000,149500000,150000000,150500000,151000000,151500000,152000000,152500000,153000000,153500000,154000000,154500000,155000000,155500000,156000000,156500000,157000000,157500000,158000000,158500000,159000000,159500000,160000000,160500000,161000000,161500000,162000000,162500000,163000000,163500000,164000000,164500000,165000000,165500000,166000000,166500000,167000000,167500000,168000000,168500000,169000000,169500000,170000000,170500000,171000000,171500000,172000000,172500000,173000000,173500000,174000000,174500000,175000000,175500000,176000000,176500000,177000000,177500000,178000000,178500000,179000000,179500000,180000000,180500000,181000000,181500000,182000000,182500000,183000000,183500000,184000000,184500000,185000000,185500000,186000000,186500000,187000000,187500000,188000000,188500000,189000000,189500000,190000000,190500000,191000000,191500000,192000000,192500000,193000000,193500000,194000000,194500000,195000000,195500000,196000000,196500000,197000000,197500000,198000000,198500000,199000000,199500000,200000000,200500000,201000000,201500000,202000000,202500000,203000000,203500000,204000000,204500000,205000000,205500000,206000000,206500000,207000000,207500000,208000000,208500000,209000000,209500000,210000000,210500000,211000000,211500000,212000000,212500000,213000000,213500000,214000000,214500000,215000000,215500000,216000000,216500000,217000000,217500000,218000000,218500000,219000000,219500000,220000000,220500000,221000000,221500000,222000000,222500000,223000000,223500000,224000000,224500000,225000000,225500000,226000000,226500000,227000000,227500000,228000000,228500000,229000000,229500000,230000000,230500000,231000000,231500000,232000000,232500000,233000000,233500000,234000000,234500000,235000000,235500000,236000000,236500000,237000000,237500000,238000000,238500000,239000000,239500000,240000000,240500000,241000000,241500000,242000000,242500000,243000000,243500000,244000000,244500000,245000000,245500000,246000000,246500000,247000000,247500000,248000000,248500000,249000000,249500000,250000000,250500000,251000000,251500000,252000000,252500000,253000000,253500000,254000000,254500000,255000000,255500000,256000000,256500000,257000000,257500000,258000000,258500000,259000000,259500000,260000000,260500000,261000000,261500000,262000000,262500000,263000000,263500000,264000000,264500000,265000000,265500000,266000000,266500000,267000000,267500000,268000000,268500000,269000000,269500000,270000000,270500000,271000000,271500000,272000000,272500000,273000000,273500000,274000000,274500000,275000000,275500000,276000000,276500000,277000000,277500000,278000000,278500000,279000000,279500000,280000000,280500000,281000000,281500000,282000000,282500000,283000000,283500000,284000000,284500000,285000000,285500000,286000000,286500000,287000000,287500000,288000000,288500000,289000000,289500000,290000000,290500000,291000000,291500000,292000000,292500000,293000000,293500000,294000000,294500000,295000000,295500000,296000000,296500000,297000000,297500000,298000000,298500000,299000000,299500000,300000000,300500000,301000000,301500000,302000000,302500000,303000000,303500000,304000000,304500000,305000000,305500000,306000000,306500000,307000000,307500000,308000000,308500000,309000000,309500000,310000000,310500000,311000000,311500000,312000000,312500000,313000000,313500000,314000000,314500000,315000000,315500000,316000000,316500000,317000000,317500000,318000000,318500000,319000000,319500000,320000000,320500000,321000000,321500000,322000000,322500000,323000000,323500000,324000000,324500000,325000000,325500000,326000000,326500000,327000000,327500000,328000000,328500000,329000000,329500000,330000000,330500000,331000000,331500000,332000000,332500000,333000000,333500000,334000000,334500000,335000000,335500000,336000000,336500000,337000000,337500000,338000000,338500000,339000000,339500000,340000000,340500000,341000000,341500000,342000000,342500000,343000000,343500000,344000000,344500000,345000000,345500000,346000000,346500000,347000000,347500000,348000000,348500000,349000000,349500000,350000000,350500000,351000000,351500000,352000000,352500000,353000000,353500000,354000000,354500000,355000000,355500000,356000000,356500000,357000000,357500000,358000000,358500000,359000000,359500000,360000000,360500000,361000000,361500000,362000000,362500000,363000000,363500000,364000000,364500000,365000000,365500000,366000000,366500000,367000000,367500000,368000000,368500000,369000000,369500000,370000000,370500000,371000000,371500000,372000000,372500000,373000000,373500000,374000000,374500000,375000000,375500000,376000000,376500000,377000000,377500000,378000000,378500000,379000000,379500000,380000000,380500000,381000000,381500000,382000000,382500000,383000000,383500000,384000000,384500000,385000000,385500000,386000000,386500000,387000000,387500000,388000000,388500000,389000000,389500000,390000000,390500000,391000000,391500000,392000000,392500000,393000000,393500000,394000000,394500000,395000000,395500000,396000000,396500000,397000000,397500000,398000000,398500000,399000000,399500000,400000000,400500000,401000000,401500000,402000000,402500000,403000000,403500000,404000000,404500000,405000000,405500000,406000000,406500000,407000000,407500000,408000000,408500000,409000000,409500000,410000000,410500000,411000000,411500000,412000000,412500000,413000000,413500000,414000000,414500000,415000000,415500000,416000000,416500000,417000000,417500000,418000000,418500000,419000000,419500000,420000000,420500000,421000000,421500000,422000000,422500000,423000000,423500000,424000000,424500000,425000000,425500000,426000000,426500000,427000000,427500000,428000000,428500000,429000000,429500000,430000000,430500000,431000000,431500000,432000000,432500000,433000000,433500000,434000000,434500000,435000000,435500000,436000000,436500000,437000000,437500000,438000000,438500000,439000000,439500000,440000000,440500000,441000000,441500000,442000000,442500000,443000000,443500000,444000000,444500000,445000000,445500000,446000000,446500000,447000000,447500000,448000000,448500000,449000000,449500000,450000000,450500000,451000000,451500000,452000000,452500000,453000000,453500000,454000000,454500000,455000000,455500000,456000000,456500000,457000000,457500000,458000000,458500000,459000000,459500000,460000000,460500000,461000000,461500000,462000000,462500000,463000000,463500000,464000000,464500000,465000000,465500000,466000000,466500000,467000000,467500000,468000000,468500000,469000000,469500000,470000000,470500000,471000000,471500000,472000000,472500000,473000000,473500000,474000000,474500000,475000000,475500000,476000000,476500000,477000000,477500000,478000000,478500000,479000000,479500000,480000000,480500000,481000000,481500000,482000000,482500000,483000000,483500000,484000000,484500000,485000000,485500000,486000000,486500000,487000000,487500000,488000000,488500000,489000000,489500000,490000000,490500000,491000000,491500000,492000000,492500000,493000000,493500000,494000000,494500000,495000000,495500000,496000000,496500000,497000000,497500000,498000000,498500000,499000000,499500000,500000000,500500000,501000000,501500000,502000000,502500000,503000000,503500000,504000000,504500000,505000000,505500000,506000000,506500000,507000000,507500000,508000000,508500000,509000000,509500000,510000000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