

```
In [7]: import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
data = pd.read_csv(r"C:\Users\DELL\Downloads\sales+transactions+dataset+weekly\Sales_T
print(data.describe())
print(data.head())

data[' W1'].hist(bins=20)
plt.title('Store sales distribution')
plt.show()
```

	W0	W1	W2	W3	W4	W5 \
count	811.000000	811.000000	811.000000	811.000000	811.000000	811.000000
mean	8.902589	9.129470	9.389642	9.717633	9.574599	9.466091
std	12.067163	12.564766	13.045073	13.553294	13.095765	12.823195
min	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
25%	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
50%	3.000000	3.000000	3.000000	4.000000	4.000000	3.000000
75%	12.000000	12.000000	12.000000	13.000000	13.000000	12.500000
max	54.000000	53.000000	56.000000	59.000000	61.000000	52.000000

	W6	W7	W8	W9	... Normalized 42 \
count	811.000000	811.000000	811.000000	811.000000	... 811.000000
mean	9.720099	9.585697	9.784217	9.681874	... 0.299149
std	13.347375	13.049138	13.550237	13.137916	... 0.266993
min	0.000000	0.000000	0.000000	0.000000	... 0.000000
25%	0.000000	0.000000	0.000000	0.000000	... 0.000000
50%	4.000000	4.000000	4.000000	4.000000	... 0.280000
75%	13.000000	12.500000	13.000000	13.000000	... 0.490000
max	56.000000	62.000000	63.000000	52.000000	... 1.000000

	Normalized 43	Normalized 44	Normalized 45	Normalized 46 \
count	811.000000	811.000000	811.000000	811.000000
mean	0.287571	0.304846	0.316017	0.334760
std	0.256630	0.263396	0.262226	0.275203
min	0.000000	0.000000	0.000000	0.000000
25%	0.000000	0.000000	0.020000	0.085000
50%	0.270000	0.300000	0.310000	0.330000
75%	0.450000	0.500000	0.500000	0.500000
max	1.000000	1.000000	1.000000	1.000000

	Normalized 47	Normalized 48	Normalized 49	Normalized 50 \
count	811.000000	811.000000	811.000000	811.000000
mean	0.314636	0.33815	0.358903	0.373009
std	0.266029	0.27569	0.286665	0.295197
min	0.000000	0.000000	0.000000	0.000000
25%	0.000000	0.10500	0.100000	0.110000
50%	0.310000	0.33000	0.330000	0.350000
75%	0.500000	0.50000	0.550000	0.560000
max	1.000000	1.00000	1.000000	1.000000

	Normalized 51
count	811.000000
mean	0.427941
std	0.342360
min	0.000000
25%	0.090000
50%	0.430000
75%	0.670000
max	1.000000

[8 rows x 106 columns]

	Product_Code	W0	W1	W2	W3	W4	W5	W6	W7	W8	...	Normalized 42 \
0	P1	11	12	10	8	13	12	14	21	6	...	0.06
1	P2	7	6	3	2	7	1	6	3	3	...	0.20
2	P3	7	11	8	9	10	8	7	13	12	...	0.27
3	P4	12	8	13	5	9	6	9	13	13	...	0.41
4	P5	8	5	13	11	6	7	9	14	9	...	0.27

	Normalized 43	Normalized 44	Normalized 45	Normalized 46	Normalized 47 \
0	0.22	0.28	0.39	0.50	0.00

1	0.40	0.50	0.10	0.10	0.40
2	1.00	0.18	0.18	0.36	0.45
3	0.47	0.06	0.12	0.24	0.35
4	0.53	0.27	0.60	0.20	0.20

	Normalized 48	Normalized 49	Normalized 50	Normalized 51
0	0.22	0.17	0.11	0.39
1	0.50	0.10	0.60	0.00
2	1.00	0.45	0.45	0.36
3	0.71	0.35	0.29	0.35
4	0.13	0.53	0.33	0.40

[5 rows x 107 columns]

```

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KeyError                                Traceback (most recent call last)
File ~\anaconda3\lib\site-packages\pandas\core\indexes\base.py:3802, in Index.get_loc
(self, key, method, tolerance)
    3801 try:
-> 3802     return self._engine.get_loc(casted_key)
    3803 except KeyError as err:

File ~\anaconda3\lib\site-packages\pandas\_libs\index.py:138, in pandas._libs.index.
IndexEngine.get_loc()

File ~\anaconda3\lib\site-packages\pandas\_libs\index.py:165, in pandas._libs.index.
IndexEngine.get_loc()

File pandas\_libs\hashtable_class_helper.pxi:5745, in pandas._libs.hashtable.PyObject
HashTable.get_item()

File pandas\_libs\hashtable_class_helper.pxi:5753, in pandas._libs.hashtable.PyObject
HashTable.get_item()

KeyError: ' W1'

```

The above exception was the direct cause of the following exception:

```

KeyError                                Traceback (most recent call last)
Cell In[7], line 8
      5 print(data.describe())
      6 print(data.head())
----> 8 data[' W1'].hist(bins=20)
      9 plt.title('Store sales distribution')
     10 plt.show()

File ~\anaconda3\lib\site-packages\pandas\core\frame.py:3807, in DataFrame.__getitem_
_(self, key)
    3805 if self.columns.nlevels > 1:
    3806     return self.getitem_multilevel(key)
-> 3807 indexer = self.columns.get_loc(key)
    3808 if is_integer(indexer):
    3809     indexer = [indexer]

File ~\anaconda3\lib\site-packages\pandas\core\indexes\base.py:3804, in Index.get_loc
(self, key, method, tolerance)
    3802     return self._engine.get_loc(casted_key)
    3803 except KeyError as err:
-> 3804     raise KeyError(key) from err
    3805 except TypeError:
    3806     # If we have a listlike key, _check_indexing_error will raise
    3807     # InvalidIndexError. Otherwise we fall through and re-raise
    3808     # the TypeError.
    3809     self._check_indexing_error(key)

KeyError: ' W1'

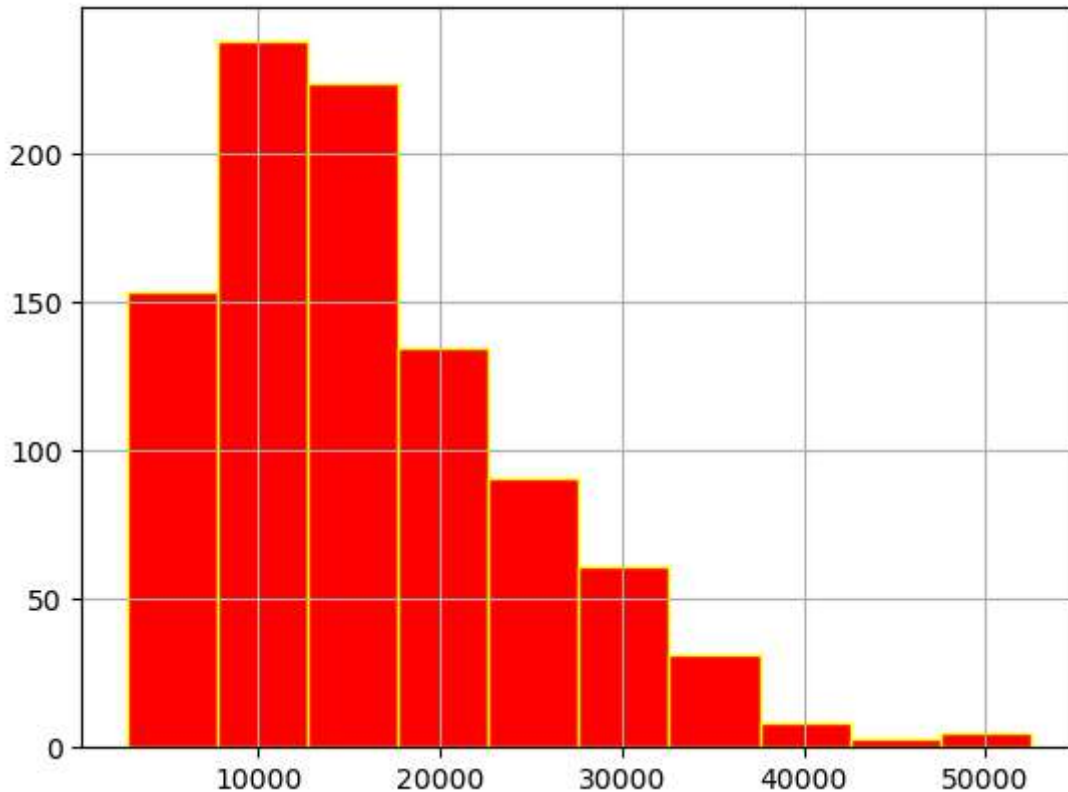
```

```

In [6]: import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
data=pd.read_csv(r"C:/Users/DELL/Downloads/carsalesextendedmissingdata.csv")
print(data.describe())
data['Price'].hist(color='red',edgecolor='yellow')
plt.show()

```

	Odometer (KM)	Doors	Price
count	950.000000	950.000000	950.000000
mean	131253.237895	4.011579	16042.814737
std	69094.857187	0.382539	8581.695036
min	10148.000000	3.000000	2796.000000
25%	70391.250000	4.000000	9529.250000
50%	131821.000000	4.000000	14297.000000
75%	192668.500000	4.000000	20806.250000
max	249860.000000	5.000000	52458.000000



```
In [8]: import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt

# Load the data
data = pd.read_csv(r"C:\Users\DELL\Downloads\sales+transactions+dataset+weekly\Sales_T

# Print descriptive statistics and the first few rows of the dataset
print(data.describe())
print(data.head())

# Plot the histogram of the 'W1' column
data['W1'].hist(bins=20)
plt.title('Store Sales Distribution for W1')
plt.xlabel('Sales')
plt.ylabel('Frequency')
plt.show()
```

	W0	W1	W2	W3	W4	W5 \
count	811.000000	811.000000	811.000000	811.000000	811.000000	811.000000
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	W6	W7	W8	W9	... Normalized 42 \
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3	P4	12	8	13	5	9	6	9	13	13	...	0.41
4	P5	8	5	13	11	6	7	9	14	9	...	0.27

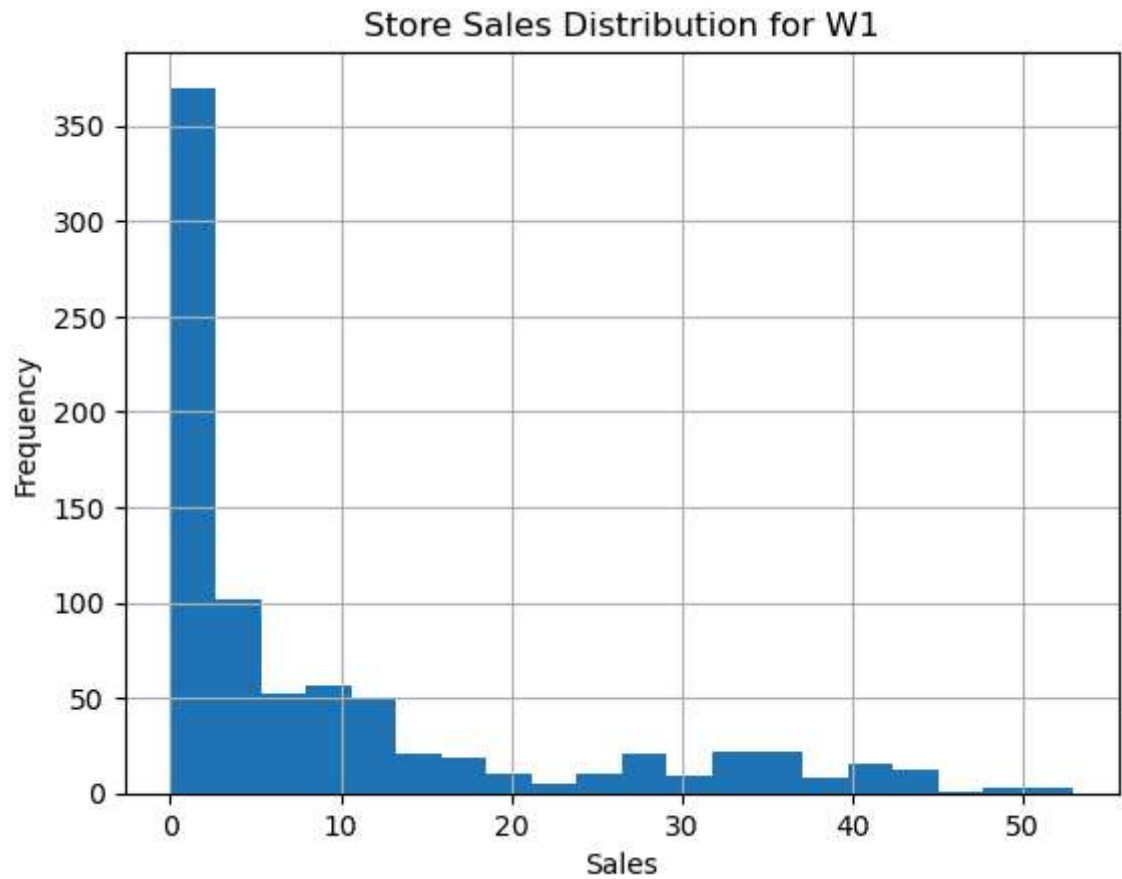
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