

Experiment - 7

AIM: To execute pandas program to create a pivot table & find the maximum & minimum sale value of the items under (sales-data-table).

Pseudocode:

- 1) Import necessary library (pandas)
- 2) Load the sales data into Pandas DataFrame
- 3) Create a pivot table using pivot() function.
- 4) Extract maximum & minimum sales values
- 5) Display the table.

Sample Input:

sales-data table.

Sample Output:

Item	max - sale - value	min - sale - value
A	200	120
B	150	130
C	180	175

Result:

Therefore the pandas program for maximum & minimum sales values executed successfully.

```

import pandas as pd

# Load the sales data
sales_data = pd.read_csv("C:/Users/abhip/OneDrive/Documents/DSA05 LAB/sales.csv")

# Create a Pivot table to find the maximum and minimum sales for each item
pivot_table = sales_data.pivot_table(values='Sales', index='Item', aggfunc=['max', 'min'])

# Rename the columns for clarity
pivot_table.columns = ['Max Sales', 'Min Sales']

# Display the Pivot table
print("Pivot Table showing Maximum and Minimum Sales for each item:")
print(pivot_table)

```

IDLE Shell 3.12.4

File Edit Shell Debug Options Window Help

Python 3.12.4 (tags/v3.12.4:8e8a4ba, Jun 6 2024, 19:30:16) [MSC v.1940 64 bit (AMD64)] on win32

Type "help", "copyright", "credits" or "license()" for more information.

>>>

===== RESTART: C:/Users/abhip/OneDrive/Documents/DSA05 LAB/program 5.py =====

===== RESTART: C:/Users/abhip/OneDrive/Documents/DSA05 LAB/program 6.py =====

===== RESTART: C:/Users/abhip/OneDrive/Documents/DSA05 LAB/program 7.py =====

Pivot Table showing Maximum and Minimum Sales for each item:

Item	Max Sales	Min Sales
Item_A	500	200
Item_B	450	300
Item_C	500	300

>>>