EXPERIMENT-7

Aim: To execute pandas program to create a pivot table and find the maximum and minimum sale value of the items (refer sales_data table).

Pseudocode:

1) Import necessary library (pandas)
2) Load the sales data into a Pandas DataFrame
3) Create a pivot table using the pivot_table() function to summarize sales data by item, finding the maximum and minimum sales data by item.
4) Extract the maximum and minimum sales values from table
5) Display the results.

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 sales value and minimum sales value executed successfully.

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```
[ ]
# Create pivot table to find max and min sales values
pivot_table = df.pivot_table(values='Sale_Value', index='Item', aggfunc=['max', 'min'])

# Display the pivot table
print(pivot_table)
```

```
            max        min
     Sale_Value Sale_Value
Item
A           200        120
B           150        130
C           180        175
```

```
[ ] import pandas as pd

# Sample data for sales_data (for demonstration)
data = {
    'Item': ['A', 'B', 'A', 'C', 'B', 'A', 'C'],
    'Units_Sold': [10, 15, 20, 30, 25, 5, 40],
    'Date': ['2024-11-01', '2024-11-01', '2024-11-02', '2024-11-02', '2024-11-03', '2024-11-03', '2024-11-04']
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