

7. Write a Pandas program to create a Pivot table and find the maximum and minimum sale value of the items.(refer sales_data table)

CODE:

```
7new.py - C:/Users/keert/AppData/Local/Programs/Python/Python311/query processing new/7new.py (3.11.4)
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import pandas as pd

# Sample sales data
data = {
    "Item": ["Item_A", "Item_B", "Item_C", "Item_A", "Item_B", "Item_C", "Item_A", "Item_B", "Item_C"],
    "Sale_Value": [150, 200, 250, 300, 400, 100, 350, 300, 200],
    "Date": ["2023-06-01", "2023-06-01", "2023-06-01", "2023-06-02", "2023-06-02", "2023-06-03", "2023-06-03", "2023-06-03", "2023-06-03"]
}

# Create DataFrame
df = pd.DataFrame(data)

# Create a Pivot Table to find max and min sale value of the items
pivot_table = pd.pivot_table(df, values='Sale_Value', index='Item', aggfunc={'Sale_Value': [max, min]})

print(pivot_table)
```

OUTPUT:

```
IDLE Shell 3.11.4
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      max  min
Item
Item_A   350  150
Item_B   400  200
Item_C   250  100
>>>
```