

```

File Edit Format Run Options Window Help
import pandas as pd

sales_data = {
    'OrderDate': ['1-6-18', '1-23-18', '2-9-18', '2-26-18', '3-15-18', '4-1-18', '4-18-18', '5-5-18', '5-22-18', '6-8-18', '6-25-18', '7-12-18', '7-29-18', '8-15-18', '9-1-18', '9-18-18', '10-6-18', '10-20-18', '11-5-18', '11-19-18', '12-3-18', '12-17-18', '12-31-18'],
    'Region': ['East', 'Central', 'Central', 'Central', 'West', 'East', 'Central', 'Central', 'West', 'East', 'Central', 'East', 'East', 'Central', 'East', 'Central', 'East'],
    'Manager': ['Martha', 'Hermann', 'Hermann', 'Timothy', 'Timothy', 'Martha', 'Martha', 'Hermann', 'Douglas', 'Martha', 'Hermann', 'Martha', 'Douglas', 'Martha', 'Douglas', 'Martha', 'Hermann'],
    'SalesMan': ['Alexander', 'Shelli', 'Luis', 'David', 'Stephen', 'Alexander', 'Steven', 'Luis', 'Michael', 'Alexander', 'Sigal', 'Diana', 'Karen', 'Alexander', 'John', 'Alexander', 'Sigal'],
    'Item': ['Television', 'Home Theater', 'Television', 'Cell Phone', 'Television', 'Home Theater', 'Television', 'Television', 'Television', 'Home Theater', 'Television', 'Home Theater', 'Television', 'Home Theater', 'Television', 'Home Theater', 'Television'],
    'Units': [95, 50, 36, 27, 56, 60, 75, 90, 32, 60, 90, 29, 81, 35, 2, 16, 28, 64],
    'Unit_price': [1198.00, 500.00, 1198.00, 225.00, 1198.00, 500.00, 1198.00, 1198.00, 1198.00, 500.00, 1198.00, 500.00, 500.00, 1198.00, 125.00, 58.50, 500.00, 225.00],
    'Sale_amt': [113810.00, 25000.00, 43128.00, 6075.00, 67088.00, 30000.00, 89850.00, 107820.00, 38336.00, 30000.00, 107820.00, 14500.00, 40500.00, 41930.00, 250.00, 936.00, 14000.00, 14400.00]
}

df = pd.DataFrame(sales_data)

pivot_table = pd.pivot_table(df, values='Sale_amt', index=['Region', 'Manager', 'SalesMan'], aggfunc='sum')

print("Total Sale Amount Region-wise, Manager-wise, and Salesperson-wise:")
print(pivot_table)

```

```

IDLE Shell 3.12.0
File Edit Shell Debug Options Window Help
Python 3.12.0 (tags/v3.12.0:0fb18b0, Oct 2 2023, 13:03:39) [MSC v.1935 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\ARTHI\OneDrive\Documents\Query Processing\Line Chart of Financial data[Q24].py
>>>
= RESTART: C:\Users\ARTHI\OneDrive\Documents\Query Processing\Line Plot[Q22].py
>>>
= RESTART: C:\Users\ARTHI\OneDrive\Documents\Query Processing\Pivot Table to find total sales amount[Q9].py
Total Sale Amount Region-wise, Manager-wise, and Salesperson-wise:

```

Region	Manager	SalesMan	Sale_amt
Central	Douglas	John	250.0
	Hermann	Luis	150948.0
		Shelli	25000.0
		Sigal	121820.0
	Martha	Steven	89850.0
Timothy		David	6075.0
East		Douglas	Karen
	Martha	Alexander	231076.0
		Diana	14500.0
West	Douglas	Michael	38336.0
	Timothy	Stephen	67088.0

```

>>>
Ln: 21 Col: 0

```