Experiment-07

AIM: To execute Pandas program to create a pivot table & find the total sale amount region wise, manager wise, sales man wise.

Pseudo Code:

1) Import necessary libraries (Pandas)

2) load the sales data into a Pandas dataframe.

3) Create a pivot table using pivot()

4) Calculating the sum of sales_amnt.

5) display the pivot tables result.

Sample Input:

Sale database (Orderdate, Region, manager, salesamt)

Sample Output:

Region	Manager	Salesman	Sales amt
Central	Hermann	Luis Shells	43128.0
East	Timothy martha	David Alexander	25000.0
West	Timothy	Stephen	67085.

Result:

Therefore the pandas execution for total sa amount executed succesfully.

```python
import pandas as pd

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

# Create a Pivot table to find the total sale amount based on Region, Manager, and SalesMan
pivot_table = sales_data.pivot_table(values='Sale_amt', index=['Region', 'Manager', 'SalesMan'], aggfunc='sum')

# Display the Pivot table
print("Pivot Table showing total sale amount region-wise, manager-wise, and sales man-wise:")
print(pivot_table)
```

IDLE Shell 3.12.4

File Edit Shell Debug Options Window Help

```
>>> = RESTART: C:/Users/abhip/AppData/Local/Programs/Python/Python312/program 9.py =
Pivot Table showing total sale amount region-wise, manager-wise, and sales man-w
ise:
                          Sale_amt
Region  Manager SalesMan
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       40500.0
        Martha  Alexander  231076.0
                Diana       14500.0
West    Douglas Michael     38336.0
        Timothy Stephen     67088.0
>>>
```

Ln: 51 Col: 0