

Aim: To execute pandas program to create a pivot table and find the total sale amount region wise, manager wise sales man wise (refer sales-data table).

pseudocode:

- 1. import the necessary libraries (pandas)
- 2. load the sales data into a pandas dataframe
- 3. create a pivot table using the pivot-table () function and summarize the data by region, manager and salesman
- 4. calculating the sum of the sales_amt.
- 5. display the pivot tables result

sample input:

sales database (order date, Religion, manager, salesman, item, unit-price, sales count)

sample output:

Region	Manager	Salesman	Sales count
central	Mermann	Luis Shell	43128.0
East	Timothy	David	28000.0
west	martha		
	Timothy	Stephen	6075.0

Result:

Therefore the pandas execution for total sales amount executed successfully

```

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

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>>> = 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-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	40500.0
		Martha	Alexander	231076.0
			Diana	14500.0
	West	Douglas	Michael	38336.0
		Timothy	Stephen	67088.0

```

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