

8/11/2021
mentor/HOD.

16 9 write a pandas program to create a pivot table and find the total sale amount region wise, manager wise, sales man wise (refer sales_data table)

Aim:-

To Create a pivot table using pandas that show the total sales amount region wise, and salesman-wise from the sales_data table.

pseudo Code:-

- Load Data into a pandas DataFrame
- Create Pivot table, to calculate the total sales amount grouped by region, manager and salesman.
- ⇒ Display Results the pivot table showing the total sales amount for each grouping.

Sample input:-

data = ('order date', 'Region', 'manager', 'sales man', 'item', 'units')

Sample output

Central	Douglas	John	250.0
	Herman	Luis	15094.800
	Shelli		25000.0
		Sigal	1210820.0

Result:-

The Code is executed Successfully and got the output.

```
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-wise:
```

			Sale_amt
Region	Manager	SalesMan	
Central	Douglas	John	250.0
		Hermann Luis	150948.0
	Martha	Shelli	25000.0
		Sigal	121820.0
		Steven	89850.0
East	Timothy	David	6075.0
		Douglas Karen	40500.0
	Martha	Alexander	231076.0
		Diana	14500.0
West	Douglas	Michael	38336.0
		Timothy Stephen	67088.0

>>>

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