1. Write a Pandas program to create a Pivot table and find the total sale amount region wise, manager wise, sales man wise.

//code

import pandas as pd

# Step 1: Read the CSV file into a DataFrame

df = pd.read\_csv('salesdata.csv')

# Step 2: Create a pivot table

pivot\_table = pd.pivot\_table(df,

values='Sale\_amt', # Column to aggregate

index=['Region', 'Manager', 'Salesman'], # Index columns

aggfunc='sum') # Aggregation function

(sum of Sale\_amt)

# Step 3: Display the pivot table

print("Total Sale Amount Region-wise, Manager-wise, Salesman-wise:")

print(pivot\_table)

output:

Total Sale Amount Region-wise, Manager-wise, Salesman-wise:

Region Manager SalesMan Sale\_amt

Central Douglas John 124,016.0

Hermann Luis 206,373.0

Shelli 33,698.0

Sigal 125,037.5

Marth Steven 14,000.0

Martha Steven 185,690.0

Timothy David 140,955.0

East Douglas Karen 48,204.0

Martha Alexander 236,703.0

Diana 36,100.0

West Douglas Michael 66,836.0

Timothy Stephen 88,063.0

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2. Write a Pandas program to create a Pivot table and find the item wise unit sold.

//code

import pandas as pd

# Step 1: Read the CSV file into a DataFrame

df = pd.read\_csv('salesdata.csv')

# Step 2: Create a pivot table

pivot\_table = pd.pivot\_table(df,

values='Units', # Column to aggregate

index='Item', # Index column

aggfunc='sum') # Aggregation function (sum of Units)

# Step 3: Display the pivot table

print("Item-wise Unit Sold:")

print(pivot\_table)

output:

Item-wise Unit Sold:

Units

Item

Cell Phone 278

Desk 10

Home Theater 722

Television 716

Video Games 395

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