

## **EDS Assignment**

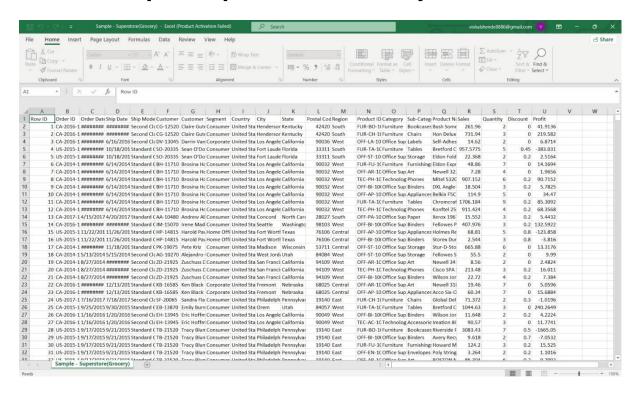
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Class: - CS7

**Roll No.: - CS7-65** 

PRN: - 202401110034

## Sample-Superstore Grocery DATASET



## **Display of data in Python**

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90045 West OFF-AP-10000055 Office Supplies Appliances 8 Outlet Surge 64.9600 2 0.00 19.4880					Belkin F9S820V06
9652 9653 CA-2016-107104 11/26/2016 11/30/2016 Standard Class 90045 West FUR-FU-10002937 Furniture Furnishings 4 Watts, 30/Box 595,3800 6 0,00 297,6090	MS-17365	Maribeth Schnelling	Consumer	United States GE 48	Los Angeles California " Fluorescent Tube, Cool White Energy Saver, 3
9653 9654 CA-2017-161893 1/23/2017 1/27/2017 Standard Class 85705 West TEC-AC-10001874 Technology Accessories for PC and Mac 95,9840 2 0.20 11.9980	HP-14815	Harold Pawlan	Home Office	United States	Tucson Arizona Logitech Wireless Anywhere Mouse MX
9654 9655 CA-2017-161893 1/23/2017 1/27/2017 Standard Class 85705 West OFF-BI-10004506 Office Supplies Binders	HP-14815	Harold Pawlan	Home Office	United States	Tucson Arizona Wilson Jones data.warehouse D-Ring Binder
s with DublLock 4.9380 2 0.70 -3.6212 9655 9656 CA-2014-156160 9/22/2014 9/29/2014 Standard Class 10035 East FUR-FU-10001876 Furniture Furnishings	AS-10090	Adam Shillingsburg	Consumer	United States	New York City New York Computer R
oom Manger, 14" 97.4400 3 0.00 35.0784 9656 9657 CA-2014-156160 9/22/2014 9/29/2014 Standard Class 10035 East OFF-BI-10003355 Office Supplies Binders	AS-10090	Adam Shillingsburg	Consumer	United States	New York City New York Cardinal Holdit Busine
ss Card Pockets 3.9840 1 0.20 1.3944 9657 9658 CA-2014-156160 9/22/2014 9/29/2014 Standard Class 10035 East OFF-AR-10003876 Office Supplies Art	AS-10090	Adam Shillingsburg	Consumer	United States	New York City New York Avery Hi-Liter GlideStik Fluorescent Highligh
ter, Yellow Ink 13.0400 4 0.00 5.7376 9658 9659 CA-2014-156160 9/22/2014 9/29/2014 Standard Class 10035 East FUR-CH-10004983 Furniture Chairs Adjustable Arms 579.5280 4 0.10 83.7096	AS-10090	Adam Shillingsburg		United States Mid Back Dual	New York City New York function Ergonomic High Back Chair with 2-Way
9659 9660 CA-2014-100860 3/26/2014 3/30/2014 Second Class 91767 West OFF-LA-10001982 Office Supplies Labels	CS-12505	Cindy Stewart	Consumer	United States S	Pomona California mead Alpha-Z Color-Coded Name Labels First Let
ter Starter Set 18.7560 5 0.00 9.0009 9660 9661 CA-2016-160717 6/6/2016 6/11/2016 Standard Class 93101 West TEC-PH-10001459 Technology Phones Galaxy Mesa 6.3 3023.9280 9 0.20 226.7946	ME-17320	Maria Etezadi	Home Office	United States	Santa Barbara California Samsung
Galaxy Mega 6.3 3023.9280 9 0.20 226.7946 9661 9662 CA-2016-160717 6/6/2016 6/111/2016 Standard Class 93101 West TEC-AC-100021134 Technology Accessories andard Keyboard 26.9600 2 0.00 3.7744	ME-17320	Maria Etezadi	Home Office	United States	Santa Barbara California Rosewill 107 Normal Keys USB Wired St
9662 9663 CA-2016-160717 6/6/2016 6/11/2016 Standard Class 93101 West TEC-PH-10001760 Technology Phones uetooth Speaker 477.6000 3 0.20 161.1900	ME-17320	Maria Etezadi	Home Office	United States	Santa Barbara California Bose SoundLink Bl
9663 9664 CA-2017-132619 8/31/2017 9/5/2017 Standard Class 94109 West OFF-ST-10001511 Office Supplies Storage	MS-17770	Maxwell Schwartz	Consumer	United States	San Francisco California Space Solutions Commercial
9664 9665 US-2015-120957 12/7/2015 12/7/2015 Same Day 92503 West OFF-PA-10003953 Office Supplies Paper	KH-16690	Kristen Hastings	Corporate	United States	Riverside California
Xerox 218 12.9600 2 0.00 6.2208 9665 9666 CA-2017-157448 11/16/2017 11/20/2017 5tandard Class 90049 West FUR-FU-10003268 Furniture Furnishings um Pile Carpets 119.9400 3 0.00 23.9880	LC-16885	Lena Creighton	Consumer	United States	Los Angeles California Eldon Radial Chair Mat for Low to Medi
9666 9667 CA-2017-157448 11/16/2017 11/20/2017 Standard Class	LC-16885	Lena Creighton	Consumer	United States	
90049 West FUR-FU-10001847 Furniture Furnishings			Ln 12, Col 1	Spaces: 4 UTF-	Eldon Image Series Black D 8 CRLF {} Python 😝 3.13.264-bit 🖗 Go Live 🚨

1. Find the total number of unique orders.

2. Find the customer with the highest number of orders.

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3. Calculate the average sales value across all orders.

4. Find the standard deviation of profit overall.

5. Find the number of orders with discount greater than 30%

6. List order where sales value is less than Rs 500.

7. Calculate the average quantity sold per category.

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| Sample | Superstore.csv | Superstore.
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**8.** Find the number of unique product sold in each category.

9. Find product when profit is negative.

**10.** Find the maximum sales recorded in a single order.

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Welcome

panadas.py > led

import pandas as pd

import pandas as pd

import numpy as np

d df = pd.read_csv('C:/Users/visha/Documents/Sample - Superstore.csv', encoding='latin1')

s 10. Maximum sales in an order

max_sales = df'['Sales'].max()

print("Maximum sales:", max_sales)

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PS C:\Users\visha\OneDrive\Desktop\eds> & C:/Users/visha/AppData/Local/Programs/Python/Python313/python.exe c:/Users/visha/OneDrive\Desktop/eds/panadas.py

Maximum sales: 2038.48

PS C:\Users\visha\OneDrive\Desktop\eds> & C:/Users/visha/AppData/Local/Programs/Python/Python313/python.exe c:/Users/visha/OneDrive\Desktop/eds/panadas.py

Maximum sales: 2038.48

PS C:\Users\visha\OneDrive\Desktop\eds>
```

11. List all order where ship mode is "Same Day".

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12. Find the total quantity of product sold per region.

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13. Find the city with highest total sales.

14. Find orders where shipping took more than 5 days.

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15. Calculate the median discount across all orders.

16. Find product sold more than 100 times.

17. Find states where average profit is negative.

18. Create a new column 'High Discount' (Discount>50%).

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19. Find the percentage of orders shipping in "First Class" mode

20. Create a new column 'Fast shipping' (Order Date = Ship Date).