	Name: - Anket D. pandey.
	ROII no:- ET1-88
	PRN: - 202401070149
	- Topic :- Dataset - Sales Latusex
- 1	De la lance and pandas
	Solution Using Numpy and pandas
	Total novenue generated
100 E	+ Hal sevenue = dales [Revenue] - Dem ()
	total sevenue = dalest revenues
2	Average discount given.
	o land this court ? man o
	werage discount = sals ('Discount').mane,
3	product with highest number of dales, top-product = scales. growphy ('product')  ("quentity 1), sum (). i dremax()
	top-product = Sales groupby (product)
	( "quantity ) - sum () idsemax()
4]	Total greantity deld per negron
	quantity-per-orginen = sales growphy (Epegion) ["quantity"] - Som ()
	( "quantity J-Som C)
ج	Day with highest number of orders ( dales ( Data) = pd. to-delse time ( Sales ( Dat
	( dales ( Data!) = pd. to-deletime ( Sales ( Dat
	deey-highest-order = sales (Date). value-counts)
	U dxmax()
6	Top 5 customers by purchase value
	-top-customers = sales. groupby ("customers") ('Revenue'). sum(). sort-values. head (s)
	( 'Kevenue'). Som (). Sort-values. head (5)
多	Category generating most.
	top-contegory = sales - grouphy (Category)
	(Rovenue'). Sum () - idx max().
8	Month with highest recence
ال	Sales ('month') = sales (Det). It month
44	Sales ('month') = sales (Det). It. month month-highest-sevener = sales groupby som chi
	y coupro ide

Average order value Average odder valeie = sales (Revenue) 5 ms ) /sals (107 der ID!) - nunique () Percentages of dales offering discount. discounted-sales-percentage = (sales (sales () is count!)
>0] shape (0] / sales, shape (0] \* 100 Region with highest average order value airgorder value - segion = sales græupby ('Pegion')
[Revenue'] · mean(! · idrmax() Trend of monthly wales
monthly sales trend plot [kind = 'line') Number of unique product sold: Magne product sold = sales ([product]. unique () Customers, with more than 10 purchases Gregioney-customers = scales ('Customer ID'). value -country frequency customers = spequency-customer >10]

Coroclation between queantity and revenue Correlation = Salos ('Pucentity').com (Salos)
('Revenue'))

Product nover wold. product 1:st = pd. dead - 550 (product 1:st. CSV) Sold-products = dales (producti) . Unrque () The state of the s Max, Min, mean revenue par order Devenue-per of Les - sales - groupby ('Order ID!) (Revo · Sem () max-sevenue = per sevenue -per . Order max) min revenue = devenue pei - order min () mean - revenue = sevenue per - order mean () 18) Most common discount rate Common discount = sales ('Discount'). mode ([o The set of the coldens (9) fastest growing product category
by month (ategory growth = dales. group by [month, (ategory)]

['Revenue]. dem (). unteck (), pct-change (). mean()

fastiest\_growing - coefgory = certegargouth () 20 Avereige geartity sold per vider for each probled avg-quantité per-order = dales grouphy (Eproducet') (Preantity ]. mean () The state of the s