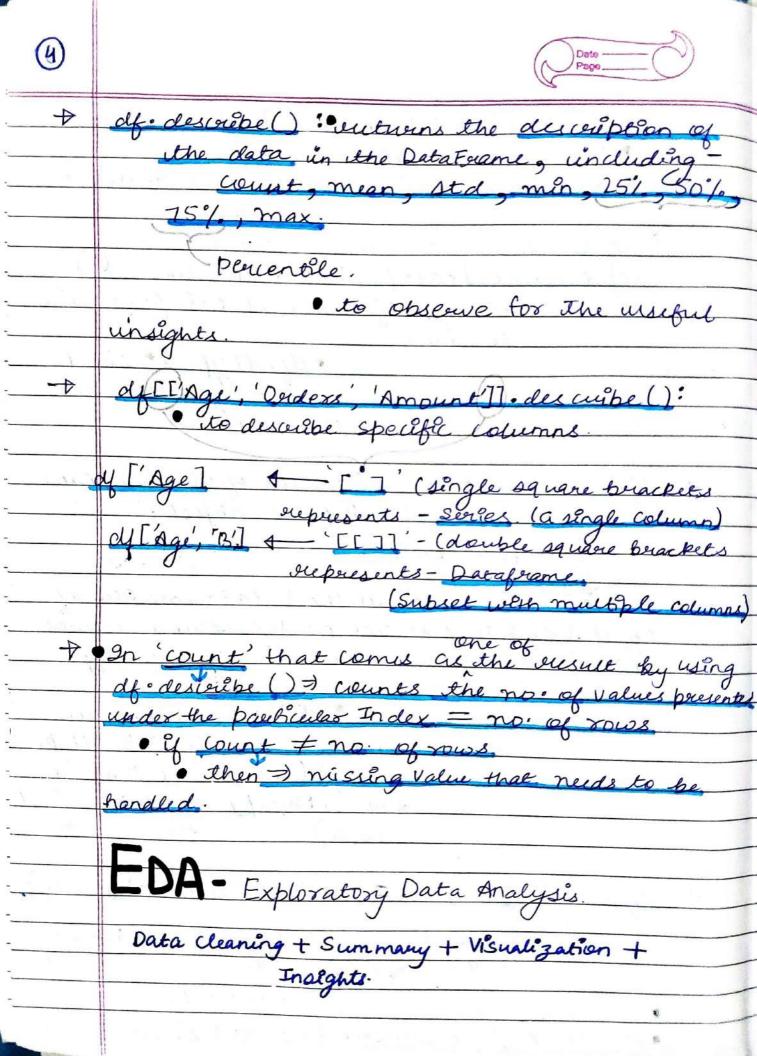


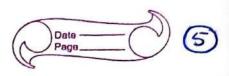
Changes the datatype

• gets saved as 'smoult' villar 340001 482 2 then to check for the changes:

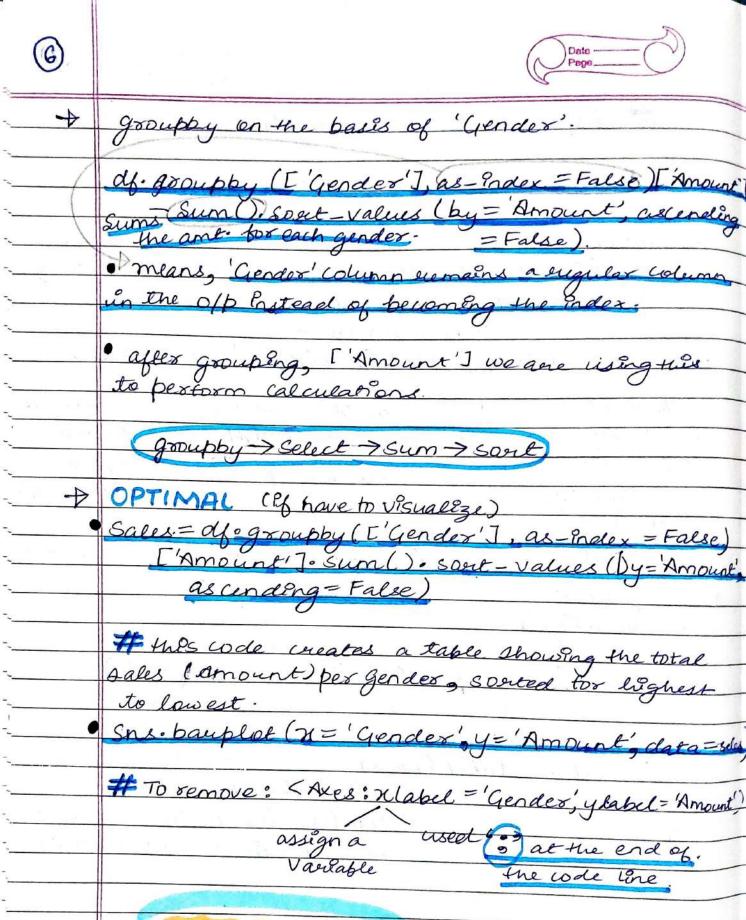
df ['Amount']. dtype: • checks the data type for the certain prespective de dtype: checks
datatypes fou all
the columns. of columns: gets the people of all the columns on ame: with its otype as object:

dtype='object' It doesn't mean the Data Frame are of Themselves are stored as an object array. · In Pandas, when an Index holds str, it's drype Es 'obj' (the general purpose dtype in Numby for text & mixed of rename (Columns = [Maural - Status : (Shagdis) Mename 9n to be charge Renamed tolums as that. dictionary • to ocename the column : Enplace () & - operators

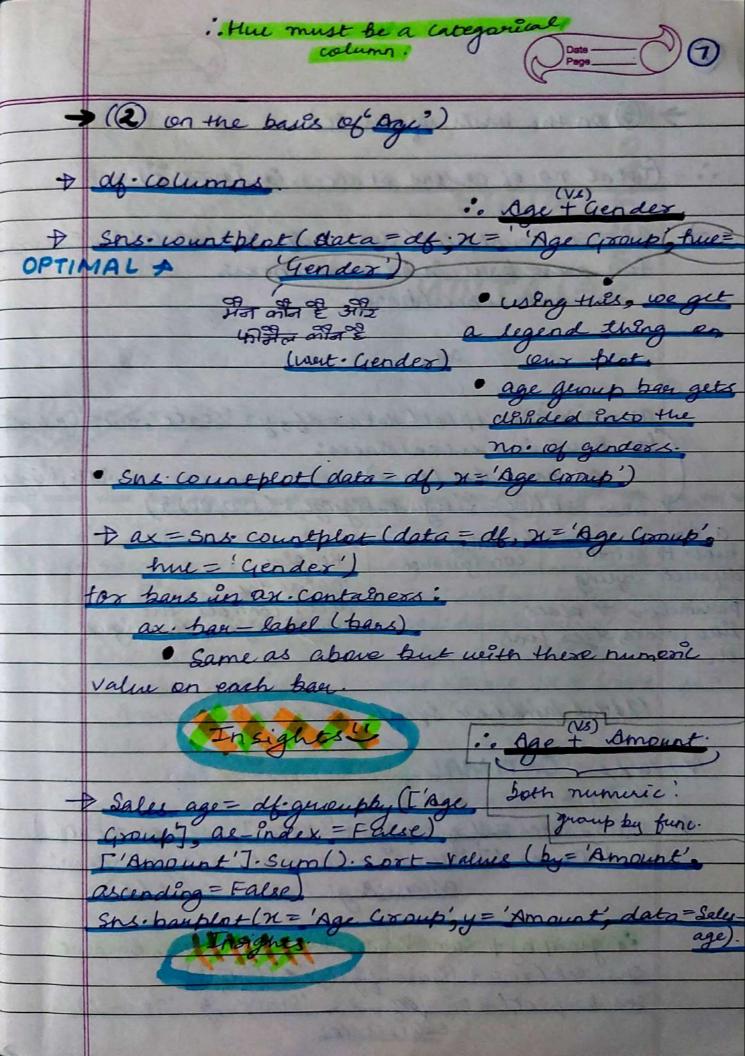




	# Explosion Data Angline
	# Explosiatory Data Analysis.
7	(1) on the basis of: Gender)
LA.	(1) on the basis of: Gender)
→	af · colums
	(to use this so we do not error in welting
	the casesect column names).
(F)	Seabour shartform.
-	ax = sns countplot (x = Gender), data = d).
19	Ton Seabour. gender-F/M be used
	FIONE Seabourn. gender-F/M be used
	2 31121 Well be plotted Vous it!
9	The modify of y-axls. var-'dg'
	when sheet i commen to be 9n (') & van as noom
base	plotan
ins	skip using it.
A.V 3	A refresh control of the control to the control of
7	ax = Sns. countplot (x='Gender', data = df)
	for bax in ax containers:
	(ax·bar-label (bans)
	adds labels on top of
	each bar insede the container,
	showing their height (value)



Put the Inalghts







> (3) on the basis of State)

.. (Total no of anders State-wise Entol 2)

-> ax = sns. iount plot (data = df, = 'State', hue = 'Order' for more bare in ax containers. ax bax label (bars)

au,

ax = sns. countplate data = df, y = 'State', hue = 'Orders' for baus in ax containers:

Sns. Set (80 = Elfigure figure: (150, 90) 3)

a Sns func to set the Gruntime Keysig configuration default styling Inside the

overall size of the figure parameters + blots

like wors, stzes, font,

(Total amount spent state wise)

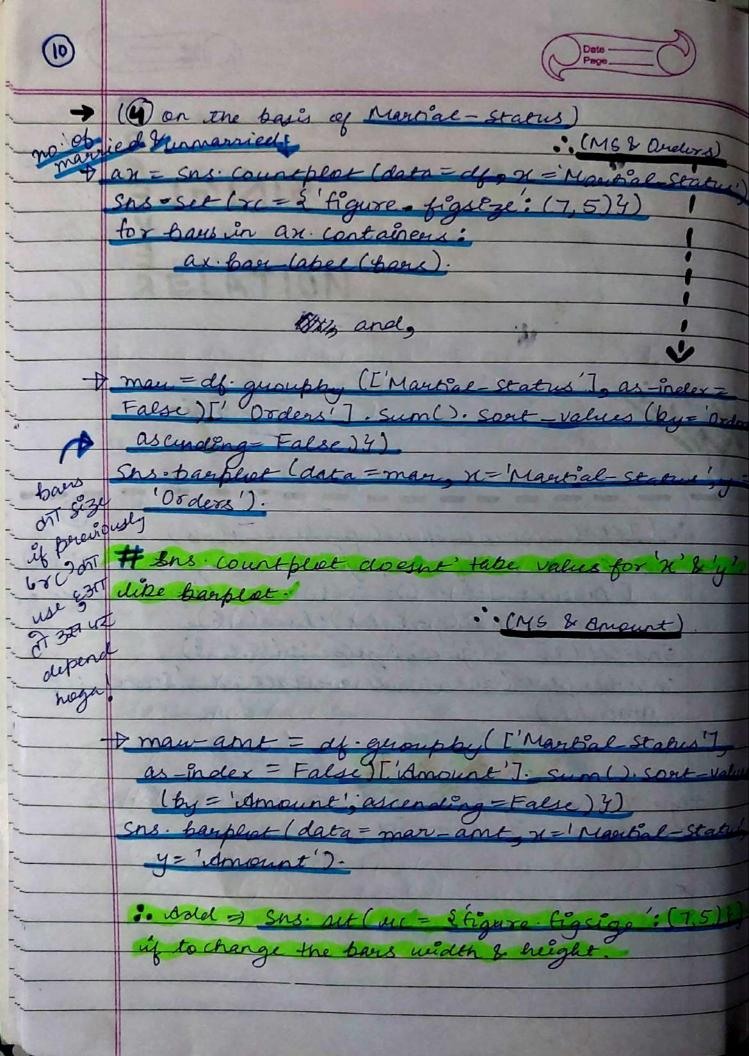
Tranz OPTIMAL+

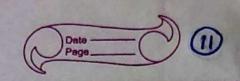
Jales-Sales = df: guouphy (['State'], as-index = False)
['Orders']. Sum(). SONT-values (by='Orders') ascending = False). head (6)

Shs. banklot (data = 1000, x = 'State', y = 'Orders').

Sales-States

. (Total amount Spend per state wise) - Sales a-State = df. groupby ('State'], as-Index=False) ['Amount']. sum(). sort-values (by='Amount', Sns-Set(rc = & figure. figsize ': (15,5)}) Sns-barplet (data = salesa - state; x = 'State', y = 'Amount') vinsights bego burchasing power later state of viriat & 31/2 orders or Et as or 4141 21.





(M& + Gender & Amount)

man-gen-amount = of guouply (['Manital-Stotk'
,'Grender'] as - Ender = False)['Amount'] - Sum ().

sourt-values (by = 'Amount', ascending = False)

She bauplot (data = man-gen-amount n= 'Manital

l-Status', y = 'Amount', hue = 'Grender').



→ (5) on the basis of Occupation)

-normal counterplat to count peops in occupate

She set (8(= \$ figure - figsize: (20,5)4)

ax = Shs: (ountplot (data = df, x = 'Occupation')

four boans in ax containers:

ax · hare - (abel (bars).

Occupation & Ant.

Talse) F'Amount-'1. Sum (). Sort-values (by='Amount.

Mt'/ Occupation / Mt Klubolint & ascending = False)

She barplat (data = Occ-amt, n='Occupation',

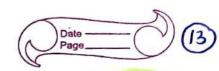
y='Amount')



(12) -> (6) on the basis of 6 Product - (ategory?) ans. sit (rc = { 'figure . tigueze!: (20,5)4)

an = sns. countplot (data = clf , x = 'Product - Calegory')

for bank in ax. containers: ax · han-label (bars) pro-amt=df. group by ([! Product-Category 1, ae-index-False)['Amount']. Sum (). Sort-Value (by=Amount) ascending = False) Sns. set (80= 2 Figure Figure: (40, 15)3) Sne barplot (data = pro- ant, x= 'Product-Category'y= Broduct_ID& Orders Sales-State = df. groupby (['Product-10'] as -index= False)['Orders J. Sum ()' Sort-Values (by='Order ascending = False) head (9) Sns. cet (8(= & figure. figure: 62,5)3) Shs. barplot (data = Sales- & stake , x = Product ID # top 10 most hold products (Same thing & but िस्रवा अल्या-अल्या figt, ax1 = plt. Supplets (figsize=(12,7)) of groupby (Poodent ID) ['Orders'] - Sun (). Margel Soxt-Values (ascending = False). plat (Kind 2)



DOUBTS & ANDWERS

optional (depends on the location)

of = pd. read-csv (8"C:\Vsers\vewip\One drive\Desplop)

Pythanforactice\Diwali Salea Data csv")

ERROR!

· Why is I being used here ?

· the &' before the string makes it view string.

• '8' tills Python "treat this stor literally & don't perocess blacklashes as escape sequences."

Why ERROR 2.

It's Unicode Duode Essos - it happens because pd. read-csv () by default, tries to read files using the 'Utf-8' encoding & the file we used is purphably paved with a diff- encoding.

> TO-DO:

· Use + encoding="unicode-escape" 'Cp1252'

- encoding= 'ISO-8859-1'

→ encoding = 'cp1252'

+ encoding-errors= gnore