

Changes the datatype

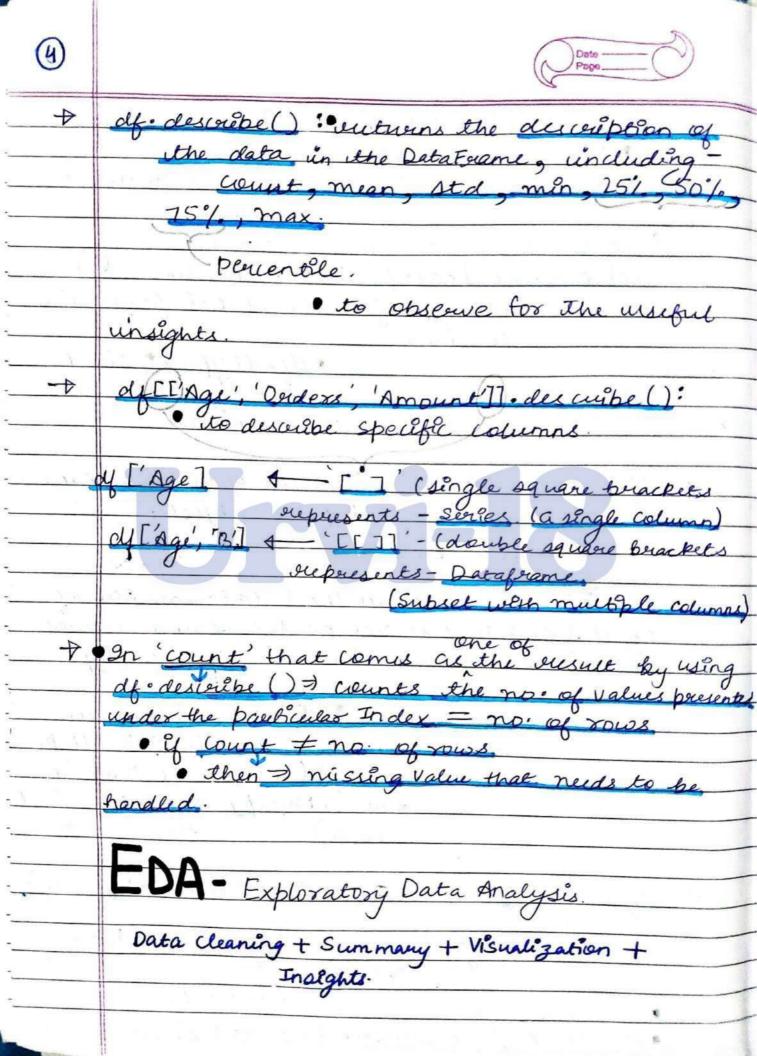
• gets saved as 'smoult' villar 341011 482 2 then to check for the changes:

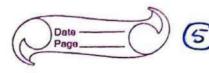
df ['Amount']. dtype: . checks the X

data type for the certain prespective de dtype: chuls datatypes fou all the columns. af. columns: gets the people of all the columns

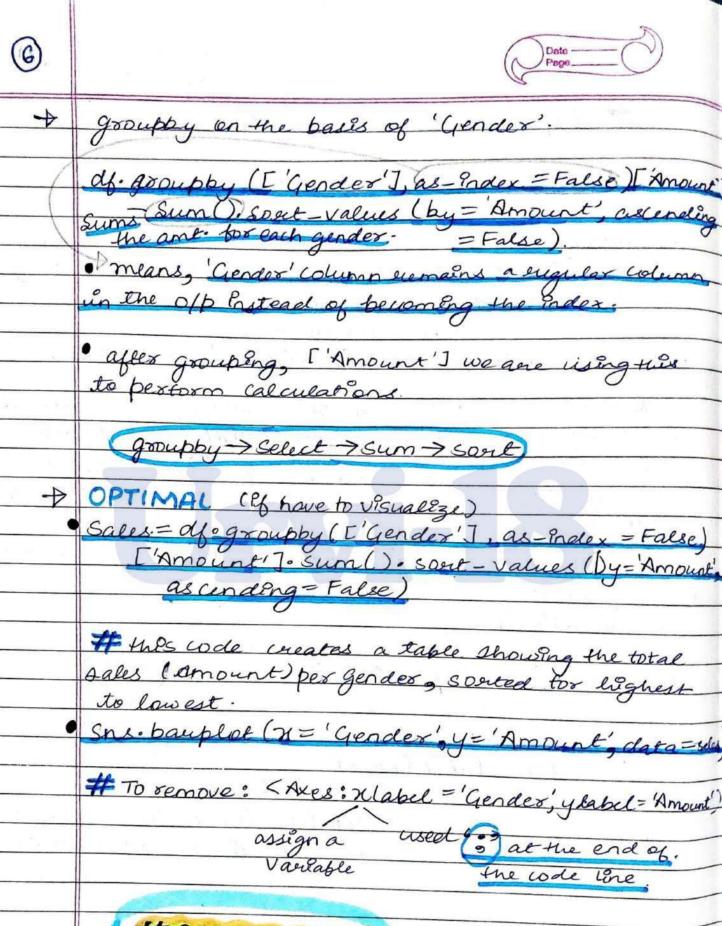
chame with the object:

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 Af rename (Columns = [Maural - Status : (Shaadir) Hename in to be charge Renamed tolums as that. in a pros siename dictionary · to ocename the column : Enplace () & c'operators

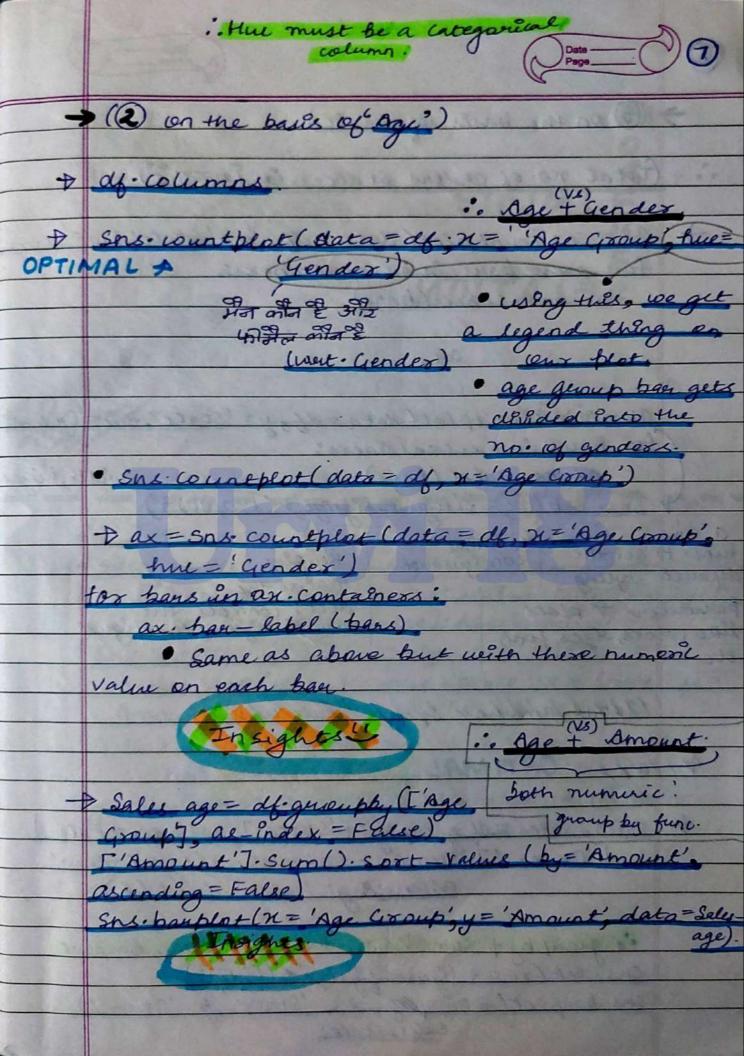




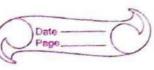
Explosiatory Data Analysis. → (1) on the basis of: Gender) af colums (to use this so we do not error in weathing the coverect volumn names) Seabour shartform. -> (ax = sns) (ountplot) (x = Gender), data = 4) a plet Vanable axes N For Value data to फीर्ज विजया है gender-F/M Volatant value well be proteed Seabour. be used अगर आर्थी Of the var - 'df'. वाद्या है ती of y-axes. Otherolse Sing :. commen to be 9n (') & van as noom basic plat an mo stip using it. Dax = Sns. countplot (x='Gender', data = df) for base in ax containers: (ax.bar-label (bars) adds labels on top of each bar insede the containes, showing their height (value)



Put the Insights







> (3) on the basis of State) (Total no of orders State-wise (on Tot) -> ax = sns. iount plot (data = df, = 'State', hue = 'Order' for more bare in ax containers. ax bax label (bars) au, ax = Sns. countplot(data = dfg y = 'State', hue = 'Orders' for hous in ax containers: Sns. Set (8c = Elfigure figure: (150,90) 3) a Sns func to set the configuration Keysez default styling Inside the overall size of the figure parameters + blots like weloos, sizes, font, (Total amount spent state wise)

Trant OPTIMAL +

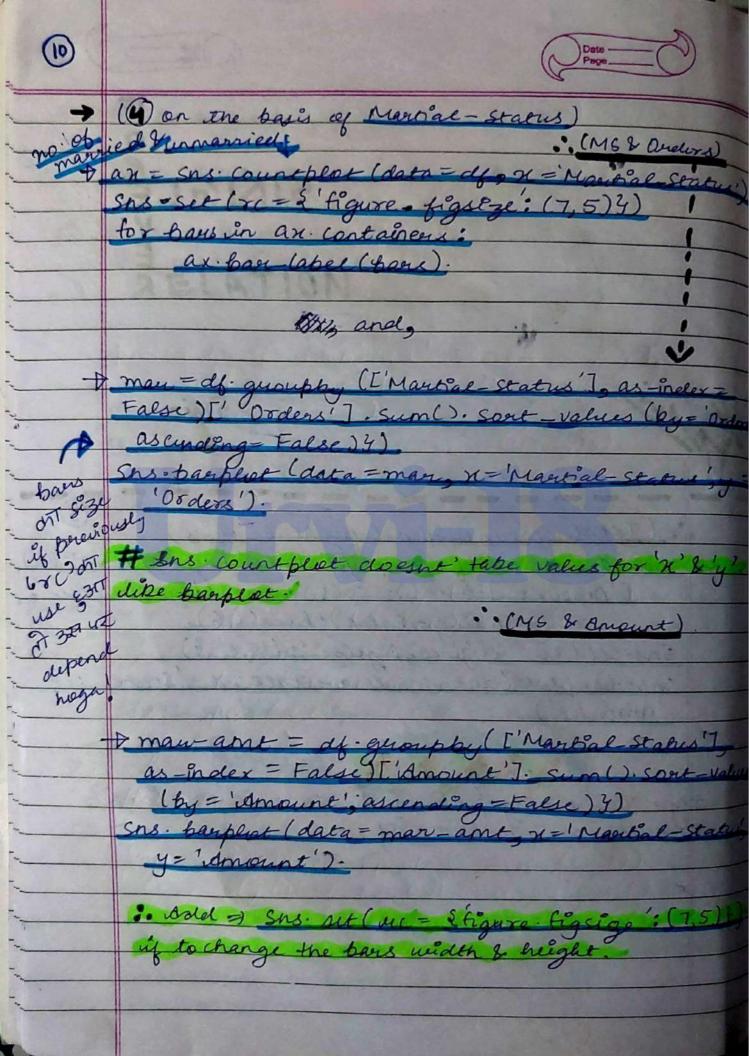
Jodes - Sales = df. guouphy (['State'], as-index = False)
['Dodors']. Sum(). Sort-values (by='Orders') ascending = False). head (6)

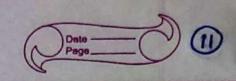
Shs. banklet (data=104, x= 'State', y= 'Ordexs').

Sales-States

. (Total amount Shorel per State wise) + Sales a-state = of groupby ('State 'I as - Index = False) ['Amount']. sum (). sort-values (by= 'Amount' asunding = False). head (6). Ens. Set (oc = & figure. figsize 1: (15,5)3) Sns-barplet (data = salesa - state; x = 'State', y = 'Amount') veg · Bunchasing power Sate State of valate 31/2

oudens or Ei as valat 21.





* (M& + Gender & Amount)

* man-gen-amount = of guoupty ([1] Manital-Static

,'Crender'] as - Ender = False) ['Amount'] - Sum ().

Some-values (by = 'Amount', as cending = False)

She bauplot (data = man-gen-amount, 22 Manital

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



→ (5) on the basis of Occupation)

-normal counterplat to count peeps in occupate

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

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

free boans in ax containers:

ax - hars - (abol (bars).

Occupation & Ant.

Occupation & Ant.

Occupation & Ant.

Occupation & Ant.

I as-Endex =

False) ['Amount-'1. Sum(). sort-values (by='Amount

My'Nchapation'/ My Y'Klushowh to ascending = False)

One barplot (data = occ-amt, x='Neupation',

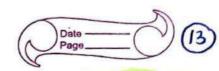
y='Amount')



(12) -> (6) on the basis of 6 Product - (ategory?) sons sit (8c = { 'figure . tigueze': (20,5)4)

ax = sons · (ountplot (data = clf , x = 'Product - Category')

for bank in ax · containers: ax · ban-label (bars) pro-amt=df. group by ([! Product-Category to And False) ['Amount']. Sum (). Sort-Value (by=Amount) ascending = False) Sns. set (80= 1 'figure. figure : (40, 15)3) She barplot (data = pro- ant, x= 'Product-Category'y= Broduct ID & Orders Sales-State = df. grouply (['Product-10'] as - induce False)['Orders J. Sum ()' Sort-Values (by='Order ascending = False) head (9) Sns. Cet (8(= & figure figure: 620,5)3).
Sns. banplot (data = Sales-& stage, x = Product TO # top 10 most hold products (Same thing & but लिखा अल्या-अलग figt, ax1 = plt. Supplote (figsize= (12,7)) of grouphy (Product ID) ['Orders'] - Sum (). nlarge Soxt-Values (ascending = False). plot (Kind 2)



DOUBTS & ANGWERS

optional (depends on the location)

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

Pythanferactice\Diwali Sales Data csv")

ERROR!

· Why is & being used here ?

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

· 's' tells Python "treat this sto literally & dont perocess blacklashes as escape sequences."

Why ERROR 2.

It's Unicode Duode Error - it happens because bd. read-csv () by default, tries to read files using the 'Utf-8' encoding. It the file we used is purbably paved with a deff- encoding.

> TO-DO:

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

+ encoding= 'ISO-8859-1'

+ encoding = 'cp1252'

+ encoding-errors= ignore