Data manipulation, Data Filtering datatoane is a collection of series. df. dtypes df.describ(). Gapplied only on datategre numerical & columny it prescribes. & mean, std, Lount, dtype: min 1 25-1.1504., 75-12, > df-dtypes == 'object' En: voll False not an object dtype col2 True > object degre => (df.dtypes == 'object').dtypes -> # boot dtype ('bool') [object (ndex)

], scol s object

dt. dtypes == 'object' } dtype: object > df. dtypeg [object (uder) > df. dtypes [o bjectinder]. Index only prints true = Index (['cols','col6'], dtype

diftically to for passing a single value when df [['coll', 'col2', ...]] # for accessing for more Accessing fows: df ['coll']['o] 7: first value of coll off[0] - tist row df[0:] > all rous aftio: n) Lsupper bound. borne) Aft com df ['newcol'] = 'dpoint' La Assigned to every son in venicol.

> pd. Categorical (dfT'(016'])

ite levels in Rlang.

-) dft'col 6'] : uniquel)

-> df [col6']. Conull().

Visualisation [.1. matplottib_inline] imposts -> numpy pandag 1) To display inline Seabon plots for Jupyter notebook matplottib. pyplot from pandas plotting import scatter-motrix. numpy. random import rando, randint, uniform, sample N=[1,2,3,4,5] y = [a**2 for ainn] -> set of squares [1,49,16,25] 전 자. o-simple straight live -- stline Title 15 plt. plot (n.yn.xx 1) pit. Alabel ('n anis') plt. ylabel ('y anis!) pt. title ('Title is') 10 -> red line plot. plt. Subplot (= 1 / -) (2,2,1) -) D 2 -8 B = ME

object oriented drawing -lig= plt-figurel) ares = fig. add -apes (t 1,1,1,1) or([0.5,0-5,0-5,0-5]) ares.plot (mig. 'b') ares. set - xlobel (x avers) over set ylabel ("yant") both these are on same carries in figure() > edgecolor= ' & ged border live width > live width of edge color) if access are no set properly in Plots one-stap. dt= Pd. DodaFrame (sandulcoo), index=np. linspale (1,1000) columns=t'values) ts= pd. Series (randa (1000), index = np. linspace (1, 1000, 1000)) df. describel)