describble) - description of Numeric Coleum Python-tutorial 12 Pandas Data Maripulation: import pandas as pd titanic_train-describe () passangerid Age fare 150.000000 126.000000 L56.000000 count (not of seconds) (means some sous mean have nell values 75% max suppose we have some data: (1,3,4,8,6,11,2,1,3,4,8,12,14,16) first averange it in ascerding order: 1, 1, 2, 2, 4, 4, 8, 50, 11, 42, 14, 16 (25th percentile xxeeoud) (max.)

· how to find description of other data-types:
was a fixed conscionation of other constitutions
way - 1 (not recommended)
titanic_train[['Name', 'Sex', Ticket']].desoiba
Name Sex licker
2 count 156 156 156
unique 156 2 145
top MADHU Female 2651
L foo 2
[] landata-set]
way for any fartance of
dtypes = "object"]. Index
dtypes = "oxiece"]. Index
l'h : the dhans == 'phiest'
titaric_train dtypes == 'object'
Passangerid False
Name True
sex True
Age False
Ticket True
- Fane, False,
titanic - toain dtypes [titanic - tocimidtypes object
Name object data-type - Series
Sex object
Ticket Object

so we can find index of series: titanic-train-dtypes [titanic-train dtypes == "object" J. index Index [['Name, 'Sex', 'Ticket'], dtype = 'object) Dataframe from this index: a = Litaric train otypes (Litaric train otypes 'object')·inder titavic-train[a]. describe() Name Ser Ticket Count 156 2 Lys unique top MADHU Female 265L Litaric-train-columns > Index (['passengerid', 'Name', 'Sex', 'Age', 'Ticket', 'Fare']) tetanie-train ['survived'] [10] tetanic train ['survived'] [10:00:2] in form of tables

3

· Souting o Litaric-train = pd read_csv ('adher') Litaric-train-describe() describe () h = titanic-train['Age'][::2] b = pd. Data Frame (h) k = b. sout values (by='Age') · mapping some data of column with other date new_Pclass = pd. Categorical
(sitavic_brain ('Pclas')) new_Polars > [3,1,3,1,--,1,3,3,1] & Polar coleum Length: 156 Categories (3, int64): [1,2,3] convert data insert data in new colum. import numpy as no in strappe char-cabin = tit-tra ["Cabin"]-astype(str) new_cabin = [cabin[o] for cabin in Charcasin (: takes first letter of strings) new-cabin = pd. Categoines (new-cabin) new_cabin > [n, C, n, C, n, --- C, u, n, n, n) Length: 1568, Object): [A,B,C,D,E,F,G,h]

Exerction for selecting (Loc - integer location sows inside nempy 2 ix tit-tra ('cabin'i) = new-cabin ven obem inder having nell-values: np whoel titanic-train ['Age'] isnull() == True)

" extract | where the given condition is true). np-where (fitavic-train l'Fare)= D BAR max (titanie_train ['Fare']) (array [27, 88], Jelype = int64)

Information of person given max. fare:

Litanic train iloc [np:where] = man [3] inder

passengerid Name Fare Age
27 28 MADHU 630.00 29

88 69 NIDHI 630.00 23

We are interested only in Name & Age of passenger given max. fare: titavic-train-iloc bow-index [C'Nane', 'Age') add two columns & make third is tit['Family'] = tit['SibSp']+ tit['Pearch]

most-family = np. where (tit['Family'])

= - max (tit['Family']) most family

tit elec [most - family]

Information of family having max heart

of members

to. list - dict - series - Dataframe my-data = [10,20,30] In lable = ('a', b',c' Pd. Series (my-data) (" convert list in) 1 20 (diff. blu list & series is that 2) 30 able to see Indexes if you don't want shese default indexes: se pd. Series (my_data, index = lable) even if you overvide new index but system will semember default index jo se[1] > 20 og se[a'] -> 10 dict - dataframe d= { 'a': 1, 'b': 2, 'c': 3} pd. DataFrame (d) Gorrou: youmest pass inder pd. DataFrame (d, index = lable) · addition of sovies: (also multiplication ...) sex 1 = pd. Series ([1,2,3,4), [A; 'B', 'A', D')) senz = pd. Sexies ([5,6,7,8], ['A', D', E', B']) 90×1+30×2

AABOE	6 8 NaN 12 NaN	(1+5) (3+5)
6		