Slicing and Indoning
af[2.5] > provides all rouse form 2 to 4 af[:] -> provides all rouse af[nome!, age:][2:5] > will provide all
roows from 2 to 4 with columns name and
Sost-values ()
dataforme. sort-values ('volumormome', ascerding = Toro) Basic Operations
Omax() > datefrance['column']. max() Omin() >
dataforme ['colemn']. min() () me an() > porovides the average salvey of the dataforme. salvey mean()
O Stalt > provides sur standard deviation. detaforme age
Conditional Solecting.
Output ou

Date as the index
200
(od=pd. sead-csv (o' puth filenome.csv')
Output
& read data.
O call disconsideral constants of the call show all dasa.
SNOW is alox ('column')
O dataframe. set_index('column')
output as select column supresent inclu form.
O type (dataforme [column name] [0])
Output
Str.
Od = pol. read_csv (s' path/filerame.csv', parse_dates = ['date'])
dates = ['date1])
Culty Jall data
$(a) \rightarrow a$
O type (datafrane ['columnmeme'][0])
Oulput
Timesteamp
Insert Missing Dales Traviable normal [1 Starring clate, ending date]
(1 Starius plate / buding date!)
ind = pd. date-ronge ('storoing date', ending date') ind = pd. DatetimeIndex (ind) index = pd. DatetimeIndex (ind)
inclex = pel : Date time Index (and)
dataforme ocimber (index)
This range that means it is remove
this range to delete means it is remove change newdate that means it is remove all shack data and change to timestrap format.
all some
formale,

Replace missing values in adatatorne. O fillnal) new-of = data. filma (0) new-df = data. filling (& feroperature!: 0,
'windspeed!: 0, levent!: umknown!}) @ fillma() > forward fill new-off = data. fillna (method = 'ffill') > It fill with provious you value O fillma () -> backward fill. new-of=data. filma (method= bfill) zuithel next you data new_df = data. filmai (method = 1 ffill, limit=1) o interpolatel) new-df = data - interpolatel) new- of = date. interpolate (southed='time')

It is mainly used time polation date. It fill
middle data > (apprevious + last) /2 (average to data). Linear Interpolation Linear interpolation is offer used to approximate a value of some function of using two Known value of that function at other points. Drop sows kaving Naw values goopna () new/= n. dropina() of (drop row having any Nanvalue)
(drop row having any Nanvalue)
(drop row having any Nanvalue) present secause which data home any will value rew! = x. dropna (how = lall?) momone (Sement all data (Semen) drop row having all whom value was. (lossement all column value Mass sent)

dropna () with Armeshold value new = x. dropna (Hrresh = 2) -> maintain all rows having at least 2 non NaN values. Discovoring Duplicates. Duplicate rows aux rows short have been resucis de l'ente en one dine. To discover duplicates, ue com use the duplicated () method The duplicated () method redurns a Boolean values for each row. e.g. Returns true for every row that is a duplicate, otherwise false. point (df. duplicated ()) Replace():/ It com use in clifferent ways O data. replace, (-9999, mp. NaN) - suplace the value data. replace ([-57,68], np. NaN) > peplace multiple value with Na N. @ Replace values with specific to columns.
est data replace (? temperature! - 8888', windspeed! - 979, revent!:10'}, np. Na.N data. roplace, (& temperature!: [-853, -2999], windspeed! [-9999, - 500], event: 1013 p. Na.N Map data with replace () chta replace = ({-9997; np. NaN, -8888: np. NaN, 101: (sunny 13) O Replace value with regen.

data replace (& Hemperature!: [A-Za-z], windspeed!

[A-Za-z]',", oregan = True)

O Replace list of values with another list of values.

Values.

data-replace [['Rain', 'Surmy', 'Smow'], [101,102,103])