Pandan

Dushaf in the max temperature in new soyonk in the month of January.

2) On which dayn did it rain

3) what wan arrage speed of wind during the month.

SOI.

D df ['Temp']. max() the date.

2) df ['EST'] [df ['Evento'] == 'Rain']

3) df ['windspeed'], man () a=df [windspeed'], sum () b= a/20 in windspred there are some messing data.

cleaning messy data

If fillma (of implace = True)

Datafname

it is used to represent data with nown and columns.

Deneating dataframe ~

2) Dealing with now and columns

3) ope: min, max, std, describle.

4) conditional selection

5) set index.

impont pandan an

dt = pd. nead_esv ('washen-dasa.esv).

H. Mer - main (implay = There)

icheating dada tham by luing Dictionary.

wa

adea then-dada = 1

"day": [1/1,1/2, 1/3]

'temp': [32, 35, 28]

'coinds'; [6,7,2]

'event': ['Rain", sunny', snow]

df= Pd. Dasa tram (washer-data)

2) nown, column - df. shape.

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indixing-slieing. 012345 df [2:5] -> Colum (2 fo 4) df, column -> shown all cloumn df.day on df [event] type of dasafnam df [[day', event', temp]]

didescribe ()

I cationtice.

Select dark in darlatnam. df df.temp >= 32 1 = = df.femp.maxO Schot df [day'] [df.temp == df ['temp'], max() > temp! I have to restinge dt. index -> represt nange indes dt. index inplace - True) df. set_indix ('day') -> set the Index in day format df. 60 [1/3/17] (sow shown the of reset - index (implac = True)

woyn of creating Dasa frame

dt = Pd. read_csv ('weather.csv') ruad-CSV excle1 read-exed ·XISX -hdf Pd. Data Frame (wather) - Dietionary. -59L -Json- html Read / curile - stata - san df = pd: nead-csv ('stek . esv'), headen = 1) headen = None, namen = ['ticken', 'eps']) I creat the headen. df = pd. nead-esv ('stock.esv', mnows = 3) 1 nepresent only 3 nows . , na-valuen ['not available', 'Na 'T

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df = pd. nead-esv ('stock.esv'), naw-valuen = ["not avaible", 'n a', -1]) supply a dictionary d't = pd. nead-csv ("stock. esv", na-valuen = } 'eps': ["not available", "n.a."], 'nevenue': ["not available", "m.a.", -1] ?) ande esv file. df. to-csv ('new.esv') - creat near file in directny. , index = flse) - to remove index , cloum = [ticken's, eps]) + only two eloum in new est

力制。 2) inte 3) drop d+ = Pd type (df. se

How to handal missing Dala. (panda-5) 1) fill ma to fill missing value 2) interpolate to guess on missing valuen to dnop missing value nown 3) dnopna dt = pd. nead - esv (" wathen . csv") convent type into stn -> daten. type (df.day[0]) ->stn dt = pd. read-esv ("wather. csv", panse-dater = ["day"]) - pandamitslib. Timestamp 2017-01-01 df. set-index ('day', implace = True) modify the orginal data trame other wise new dola Trame. Fungitac Sertaconazole Nitrate

PREPERENTANTION

$$\frac{df}{new-df} = df \cdot fill na(0)$$
 $NaN \rightarrow 0$

diffrunt value for column

'temp': 0,
'wind': 0,
'event': 'no event'

near-df= df. fillma (method=bfill

) axis= (clammo')

copying value Honizondaly

difillna (method=Hillni, limit-1)

copy value only once.

neco-df = df. fillma (method = "ffill")

conny toncon d.

new-df = df. intenpolate () linen interpolation

missing 2/1 and 3/1

4/1 29 5 the closest time of df. neindex (idx)

new-df=df, dnopna () new-df [dnop the now where missing any dala

df. dnopma (thresh=1)

. Keep the now if there one parameter

di intenpolate (method = time") dt=pd.date-nange ("01-01-2017", "01-11-17") idx = pd. Datetime Index (d+)

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hadal missing data (pandan-6) heplace function df = pd. nead-esv ('wathru.esv') new-df = df. replace (-999, np. NaN) replace value df. ruplace ([-959, -888], np. Nan) Mapping - man stagesting new-df = df. replace (1 dt.replace (1 Hemp': -999, thin dictionary

new-df = df. replace (1

'temp': -999, thin dictionary
'wind': -999, column wise
'event': 'o'

I, mp. Nan')
new-df

It. replace ({

-999: np. Nan

"noevent": "sunny"

"in data from

thin mapping using ton replace

for thin point (difine) value.

lem P if there are given with unite. GMPh chop off the unite new-d+=d+.neplace ('[A-2a-2]', '', negex = True) -) it remove event column ne so provide a dietorary. df. neplace (1 'temp' : [A-2a-2], 'wind': [A-2a-2].

Creating data fram g dt = Pd. Doda fram (& 'Scone': ['excep', lang', 'poon', 'ang', 'exemp'] 'student'; ['nod', Maya', 'prut', 'tom', 'Jali'ats] Fungitac

```
dt. ruplace ([poon', 'avg', good', 'exep' f, [1,2,3,4])

Group By. panda-7
```

```
maximum temperature in each of the citien.
       avenage wind speed pen city.
                                 A1)
g = of. groupby ('city')
                                  g. Man () - represent
for city, city_df in ?:
        print (city) thouto workers
                                A.2)
        print (city-dt)
                                  g, mean ()
   frint city so and city info.
                                 g.discribe()
g.get-group (Mumbai')
```

```
Concal data tham
```

```
india-coath = pd. Data tnam ()

'city': ['mumbai', 'delhi', 'banglon']

'temp': [32,45,50]

'himidity': [80,60,78]
```

```
df = pd. coneat ([india-aath, us-aath])

o | mumbat | of | grone-index = True)

leading | dehli | leading | leading
```

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