merge.

tcs wipro
101
102
103
103
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id Rightyoin act your

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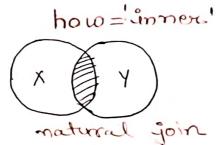


The Pandas module contains various features to perform various operations on Dataframes like join, concatenate, delete, add rete.

There are fine sypes of Joins in Pandus.

Inner Join > Inner join is the most common type of join you'll be working with. It returns a Dataframe with only those rows that have common characteristics.

This is similar to the interection of two



Left Join > With a left outer join, all the outer do in the first Detaforme will be displayed, irrespective of whether the keys in the first Dataforme can be found in the second Dataforme, whereas, for the second Dataforme, only the second with the keys in the second Dataforme and be found in the fixed Dataforme such am be found in the fixed Dataforme will be displayed.

how= left

Left outer join

Right Outer Join - For a right form, all the records from the second Dataframe will be displayed. However, only the seconds with the keys in the first Dataframe that can be found in the second Dataframe well be displayed.

Second Dataframe well be displayed.

Adv = (wight)

ought outer join

Full Outer Join - 1)1) outer join seturns all the sows from the left Dataframe, and all the sows from the sight Dataframe, and matches up sows where possible, with NaNs elsewhere. But if the Dataframe is complete, when we get the some output.

full outer foin

Index Join - To merge the Dataframe on indices pass the left-index and sight index arguments as True i.e. both the Dataframes are merged on on index using default Inner Join.

Merge is a process to merge two tables
horizontally

Acs = q'iel':[101,102,103,106]

mame!: ['I'lithun', 'Dipin', 'J'ose!, maneesh!],

'age1:[25,26,27,29]}

wipro = Z'id': [101,102,103,105],

'name': [1dev), 'sreenath', 'sreerag', 'varun'],

(salary': [25000, 34000, 37000, 20000]]

dcs-emp=pd. Data Frome (tcs) wipro-emp=pd. Data Frome (wipro)

Pd. concat ([tcs-emp, wipra\_emp]) Output Name i d 25 Mithun 101 26 Dipin 102 jose 27 103 2 104 Rahul 28 3 101 26 V 0 24 102 sneemath J 24 103 Sreezag 27 3 shafeel 104 pd. concat ([tcs\_emp, wipou\_emp], ignore index= Toug Output Age Name id 25 Mithum  $\mathbb{O}$ 101 26 Dipin 107 J 3 jose 104-Rahul . 28 10 1. dev 24 102 sreemath 24 103 snafeel 27 104 26 data = pd. concat ([tcs\_esop, wipro\_emp], Keys=[TC54, "WIPRO") Golda Output id Name Mithun 25 101 TCS 0 Dipin 102 26 gose 103 27 104 Ranul 28 3 dev 101 WIPRO 0 24 sneemath 24 102 103 Snearedd 27 3 hafeel 104 26 pcl. concat ([tes-emp, wipro-emp], axis=1)

call data Pel Age Name id Mithyn 101 25 101 102 1 26 Dipin 102 24 STEO MOUPE 103 2 Jose 27 103 Shafeel 27 104 104 Rahul 28 26

Salary = pd. Series ([65000, 75000, 15000, 25000], mame= salary) pd.concat ([tes-emp, salary], axis=1)

Output Salary Name Age id 65000 Mithun 25 101 0 75000 26 Dipin 102 9050 15000 27 103 Rahul 25000 104 28

tas = 7 11d1:[101,102,103,106],

1 Name!: [ Mithun!, 'Dipin', gose', maneeshi]

'Age!:[25,26,27,29]?

wipso = Z 11d1: [101,102,103,105],

Iname! [[Ider, Isreenath, 'sreeragi, Ivanua]]

15000,2000,34000,37000,20000]?

tes-emp = poli Datatrame (tes) wipro\_ emp = pol. Datatrame (wipro)

pd. merge (tes-emp, wipro-emp, on='id')
pd. merge (tes-emp, wipro-emp, on='id')
suffixes = [1left', loight]

appet some output

	id	Norme	Age	, name	salary	
0	101	Mithun	25	der	25000	
1	102	Dipin	26	Sreenath	34000	
2	103	jose	27	Sreasag	37000	- 1

pd. merge (tcs-emp, wipro-emp, on = 'id!, how = 'outer)						
Output						
id Name Age						
0 101 Mithum 25.0 dow 25000.0						
1 102 Dinin 26.0 Sreenart 39000.0						
2 103 inse 27.0 sneering 37000.0						
3 106 maneesh 29.0 Naw Naw						
4 105 Nav Nav varier 20000						
polimerge (tes-emp, wipro-emp, on=id, how= louter), indicator = True)						
indicator = mile)						
Output						
id Nome Age nome salary - merge						
0 101 Mithun 25:0 der 25000.0 both						
1 102 Dipin 26.0 sreenath 34000.0 both						
2 103 gose 27.0 sreering 37000.0 both						
3 106 maneesh 29.0 NaN NaN left_conly						
A 105 Naw Naw varun 20000.0 night-only						
pel. merge (tes_emp, wipon_emp, on=lid), how=left)  Output  jd Nome Age norme salary						
Dutput						
13d Name Age 11011 Salding						
o (o) Jillian						
1 102 Dipin 26 Steenaart 34000.00						
3 106 mareish 29 Naw Naw						
3 106 mareish 29 Now Now Now Now = right)  polomoige (tes_emp, wiporo-emp, on='id', how='right)  output  solome Age nome solomy						
Output Nome Age nome salary						
25000						
0 101 Mithum 22						
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3 105 NaN NAN vorun 20000						