



CHEATSHEET PANDAS – UNION E INTEGRACION DE DATOS

APILAR (SIN CRUZAR POR NINGUNA VARIABLE)

- Apilar variables: `pd.concat([variables_izq, variables_drc], axis = 'columns')`

`#Recordamos variables_izq`

Funded Date						Funded Amount	Country	Country Code	Loan Amount	Paid Date	
id											
84	2005-03-31 06:27:55+00:00	500	Uganda	UG	500	2005-12-13 12:00:40+00:00					
85	2005-03-31 06:27:55+00:00	500	Uganda	UG	500	2005-12-13 12:04:33+00:00					
86	2006-03-31 06:27:55+00:00	500	Uganda	UG	500	2006-12-13 12:06:56+00:00					
...								
5257	2007-06-02 03:57:56+00:00	1000	Ghana	GH	1000	2008-03-13 10:01:32+00:00					
5258	2007-03-24 06:01:16+00:00	1100	Ghana	GH	1100	2007-12-26 10:15:55+00:00					
5259	2007-06-05 04:56:45+00:00	800	Ghana	GH	800	2008-03-13 10:01:33+00:00					

5146 rows × 6 columns

`#Recordamos variables_drc`

Paid Amount						Activity	Sector	Delinquent	Name	Use	Status	
id												
84	500.0	Butcher Shop	Food	False	Justine	Buy bulls, open a butcher shop						
85	500.0	Food Production/Sales	Food	False	Geoffrey	Buying more produce each time for greater profit						
86	500.0	Animal Sales	Agriculture	False	Apollo	Increase number of goats bought and sold each ...						
...										
5257	1000.0	Construction	Construction	False	Able							
5258	1100.0	Construction	Construction	False	Manaa							
5259	800.0	Food Market	Food	False	Beatty							

5146 rows × 7 columns

`pd.concat([variables_izq, variables_drc], axis = 'columns')`

Funded Date						Funded Amount	Country	Country Code	Loan Amount	Paid Date	Paid Amount	Activity	Sector	Delinquent	Name	Use	Status
id																	
84	2005-03-31 06:27:55+00:00	500	Uganda	UG	500	2005-12-13 12:00:40+00:00	500.0	Butcher Shop	Food	False	Justine	Buy bulls, open a butcher shop	paid				
85	2005-03-31 06:27:55+00:00	500	Uganda	UG	500	2005-12-13 12:04:33+00:00	500.0	Food Production/Sales	Food	False	Geoffrey	Buying more produce each time for greater profit	paid				
86	2005-03-31 06:27:55+00:00	500	Uganda	UG	500	2006-12-13 12:06:56+00:00	500.0	Animal Sales	Agriculture	False	Apollo	Increase number of goats bought and sold each ...	paid				
...														
5257	2007-06-02 03:57:56+00:00	1000	Ghana	GH	1000	2008-03-13 10:01:32+00:00	1000.0	Construction	Construction	False	Able	Working capital	paid				
5258	2007-03-24 06:01:16+00:00	1100	Ghana	GH	1100	2007-12-26 10:15:55+00:00	1100.0	Construction	Construction	False	Manaa	Working capital	paid				
5259	2007-06-05 04:56:45+00:00	800	Ghana	GH	800	2008-03-13 10:01:33+00:00	800.0	Food Market	Food	False	Beatty	Working capital	paid				

5146 rows × 13 columns

- Apilar registros: `pd.concat([registros_sup, registros_inf], axis = 'index')`

`: #Recordamos registros_sup`

Funded Date						Funded Amount	Country	Country Co
id								
84	2005-03-31 06:27:55+00:00	500	Uganda					
85	2005-03-31 06:27:55+00:00	500	Uganda					
86	2005-03-31 06:27:55+00:00	500	Uganda					
...					
2682	2006-12-27 19:34:35+00:00	1875	Moldova					
2683	2006-12-15 22:59:04+00:00	200	Kenya					
2684	2006-12-16 15:54:26+00:00	575	Kenya					

2573 rows × 13 columns

`#Recordamos registros_inf`

Funded Date						Funded Amount	Country	Country Co
id								
2685	2006-12-15 23:46:28+00:00	375	Kenya					
2686	2007-01-10 06:14:14+00:00	2000	Bulgaria					
2687	2006-12-29 19:59:38+00:00	2000	Bulgaria					
...					
5257	2007-06-02 03:57:56+00:00	1000	Ghana					
5258	2007-03-24 06:01:16+00:00	1100	Ghana					
5259	2007-06-05 04:56:45+00:00	800	Ghana					

5146 rows × 13 columns

`#apilamos registros`

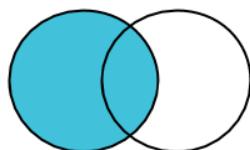
Funded Date						Funded Amount	Country	Country Co	Paid Date	Paid Amount	Activity	Sector	Delinquent	Name	Use	Status
id																
84	2005-03-31 06:27:55+00:00	500	Uganda	UG	500	2005-12-13 12:06:56+00:00	500.0	Butcher Shop	Food	False	Justine	Buy bulls, open a butcher shop	paid			
85	2005-03-31 06:27:55+00:00	500	Uganda	UG	500	2005-12-13 12:04:33+00:00	500.0	Food Production/Sales	Food	False	Geoffrey	Buying more produce each time for greater profit	paid			
86	2005-03-31 06:27:55+00:00	500	Uganda	UG	500	2006-12-13 12:06:56+00:00	500.0	Animal Sales	Agriculture	False	Apollo	Increase number of goats bought and sold each ...	paid			
...													
5257	2007-06-02 03:57:56+00:00	1000	Ghana	GH	1000	2008-03-13 10:01:32+00:00	1000.0	Construction	Construction	False	Able	Working capital	paid			
5258	2007-03-24 06:01:16+00:00	1100	Ghana	GH	1100	2007-12-26 10:15:55+00:00	1100.0	Construction	Construction	False	Manaa	Working capital	paid			
5259	2007-06-05 04:56:45+00:00	800	Ghana	GH	800	2008-03-13 10:01:33+00:00	800.0	Food Market	Food	False	Beatty	Working capital	paid			

5146 rows × 13 columns

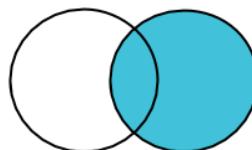
CHEATSHEET PANDAS – UNION E INTEGRACION DE DATOS

CRUZAR FICHEROS POR CAMPO CLAVE

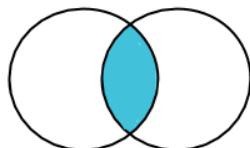
- `pd.merge (left = fichero1, right = fichero2, how = 'inner', on = 'Clave')`



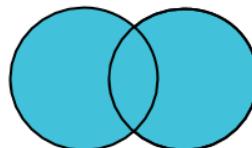
Left Join



Right Join



Inner Join



Full Outer Join

- **Tipos de unión (parámetro how):**

- **left:** manda la izquierda, es decir se incluirán todos los registros de la tabla de la izquierda independientemente de que estén o no en la derecha
- **right:** manda la derecha, es decir se incluirán todos los registros de la tabla de la derecha independientemente de que estén o no en la izquierda
- **inner:** solamente se incluirán los registros que estén en ambas tablas
- **outer:** se incluirán todos los registros tanto los de la izquierda como los de la derecha