HW 2

Total points 10/10

✓ There two tables given for you. df_A has index Name, two columns Address and University, 3 rows. df_B has index name, one column Department, 3 rows. Perform inner join based on their index. What's the shape of the output dataframe df_inner? df_inner = df_A.merge(df_B, how='inner', left_index=True, right_index=True) * 1 / 1

Name	Address	University
Kawsar	Houston	USF
Tasnim	Boise	BSU
Jakir	Tampa	USF

name	Department
Kawsar	EE
Tasnim	CS
Riad	EE

- (●) 2,3 ✓
- ( ) 3,3
- ( ) 2,5
- ( ) 2,4

✓ friends_outer = friends_s1.merge(friends_s2, how='outer', left_on='character', right_on='character_name'); What's the shape of the output dataframe? * 1 / 1

	character	name	birthday
0	Rachel Green	Jennifer Aniston	1969-02-11
1	Ross Geller	David Schwimmer	1966-11-02
2	Phoebe Buffay	Lisa Kudrow	1963-07-30
3	JoeyTribbiani	Matt LeBlanc	1967-07-25
4	Monica Geller	Courteney Cox	1964-06-15
5	Chandler Bing	Matthew Perry	1969-08-19

	character_name	gender
0	Rachel Green	female
1	Ross Geller	male
2	Phoebe Buffay	female
3	JoeyTribbiani	male
4	Monica Geller	female
5	Chandler Bing	male
6	Richard Burke	male
7	Gunther	male
8	Emily Waltham	female
9	Mike Hannigan	male

- (10,5) ✓
- (10,6)
- (5,10)
- (6,10)

There two tables given for you. df_A has index Name, two columns Address and University, 3 rows. df_B has index name, one column Department, 3 rows. Perform inner join based on their index. how many missing values are present in the output dataframe? df_inner = df_A.merge(df_B, how='inner', left_index=True, right_index=True) *

1 / 1

Name	Address	University
Kawsar	Houston	USF
Tasnim	Boise	BSU
Jakir	Tampa	USF

name	Department
Kawsar	EE
Tasnim	CS
Riad	EE

- (●) 0 ✓
- ( ) 2
- ( ) 3
- ( ) 1

✓ friends_right = friends_s1.merge(friends_s2, how='right', left_on='character', right_on='character_name'); how many missing values are present in the output dataframe? * 1 / 1

	character	name	birthday
0	Rachel Green	Jennifer Aniston	1969-02-11
1	Ross Geller	David Schwimmer	1966-11-02
2	Phoebe Buffay	Lisa Kudrow	1963-07-30
3	JoeyTribbiani	Matt LeBlanc	1967-07-25
4	Monica Geller	Courteney Cox	1964-06-15
5	Chandler Bing	Matthew Perry	1969-08-19

	character_name	gender
0	Rachel Green	female
1	Ross Geller	male
2	Phoebe Buffay	female
3	JoeyTribbiani	male
4	Monica Geller	female
5	Chandler Bing	male
6	Richard Burke	male
7	Gunther	male
8	Emily Waltham	female
9	Mike Hannigan	male

- ○ 8
- ○ 4
- ◉ 12 ✓
- ○ 16

✓ friends_left = friends_s1.merge(friends_s2, how='left', left_on='character', right_on='character_name'); What's the shape of the output dataframe? * 1 / 1

	character	name	birthday
0	Rachel Green	Jennifer Aniston	1969-02-11
1	Ross Geller	David Schwimmer	1966-11-02
2	Phoebe Buffay	Lisa Kudrow	1963-07-30
3	JoeyTribbiani	Matt LeBlanc	1967-07-25
4	Monica Geller	Courteney Cox	1964-06-15
5	Chandler Bing	Matthew Perry	1969-08-19

	character_name	gender
0	Rachel Green	female
1	Ross Geller	male
2	Phoebe Buffay	female
3	JoeyTribbiani	male
4	Monica Geller	female
5	Chandler Bing	male
6	Richard Burke	male
7	Gunther	male
8	Emily Waltham	female
9	Mike Hannigan	male

- ○ (5,6)
- ◉ (6,5) ✓
- ○ (10,5)
- ○ (5,10)

There two tables given for you. df_A has index Name, two columns Address and University, 3 rows. df_B has index name, one column Department, 3 rows. Perform inner join based on their index. What's the index values for the output dataframe? df_inner = df_A.merge(df_B, how='inner', left_index=True, right_index=True) *

1 / 1

Name	Address	University
Kawsar	Houston	USF
Tasnim	Boise	BSU
Jakir	Tampa	USF

name	Department
Kawsar	EE
Tasnim	CS
Riad	EE

- ○ Kawsar, Tasnim, Jakir
- ○ Kawsar, Tasnim, Jakir, Riad
- ○ Kawsar, Tasnim, Jakir, Kawsar, Tasnim, Riad
- ◉ Kawsar, Tasnim ✓

✓ friends_right = friends_s1.merge(friends_s2, how='right', left_on='character', right_on='character_name'); What's the shape of the output dataframe? * 1 / 1

	character	name	birthday
0	Rachel Green	Jennifer Aniston	1969-02-11
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	character_name	gender
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5	Chandler Bing	male
6	Richard Burke	male
7	Gunther	male
8	Emily Waltham	female
9	Mike Hannigan	male

- ( ) (5,6)
- ( ) (6,5)
- (•) (10,5) ✓
- ( ) (5,10)

✓ Which option is correct? * 1/1

- ( ) NaN: Not a number is not missing value
- (•) NaT: Not a Time is a missing value ✓
- ( ) NaT: Not a Time is not a missing value

✓ friends_left = friends_s1.merge(friends_s2, how='left', left_on='character', right_on='character_name'); how many missing values are present in the output dataframe? * 1 / 1

	character	name	birthday
0	Rachel Green	Jennifer Aniston	1969-02-11
1	Ross Geller	David Schwimmer	1966-11-02
2	Phoebe Buffay	Lisa Kudrow	1963-07-30
3	JoeyTribbiani	Matt LeBlanc	1967-07-25
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5	Chandler Bing	Matthew Perry	1969-08-19

	character_name	gender
0	Rachel Green	female
1	Ross Geller	male
2	Phoebe Buffay	female
3	JoeyTribbiani	male
4	Monica Geller	female
5	Chandler Bing	male
6	Richard Burke	male
7	Gunther	male
8	Emily Waltham	female
9	Mike Hannigan	male

- (●) 0 ✓
- ( ) 1
- ( ) 2
- ( ) 3

✓ friends_inner = friends_s1.merge(friends_s2, how='inner', left_on='character', right_on='character_name'); What's the shape of the output dataframe? *

1 / 1

	character	name	birthday
0	Rachel Green	Jennifer Aniston	1969-02-11
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	character_name	gender
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2	Phoebe Buffay	female
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4	Monica Geller	female
5	Chandler Bing	male
6	Richard Burke	male
7	Gunther	male
8	Emily Waltham	female
9	Mike Hannigan	male

- ○ (5,6)
- ◉ (6,5) ✓
- ○ (6,6)
- ○ (10,5)