

Merge-Inner-Join

- Using Pandas-Merge, two tables (dataframes) can be merged or integrated or joined(SQL) in various ways, based on the values of Common Column(s).

<i>Left Table</i>				<i>Right Table</i>				<i>Merged Table (Inner Join)</i>				
VOL	REV	HQ		HQ	EXP	EMPCNT		VOL	REV	HQ	EXP	EMPCNT
100	125	blr		che	250	275		100	125	blr	150	175
200	225	che		ncr	450	475		200	225	che	250	275
300	325	mum		blr	150	175		400	425	ncr	450	475
400	425	ncr		kol	550	575		500	525	kol	550	575
500	525	kol		hyd	650	675						

Merge-Outer-Join

<i>Left Table</i>			<i>Right Table</i>			<i>Merged Table (Outer Join)</i>				
VOL	REV	HQ	HQ	EXP	EMPCNT	VOL	REV	HQ	EXP	EMPCNT
100	125	blr	che	250	275	100	125	blr	150	175
200	225	che	ncr	450	475	200	225	che	250	275
300	325	mum	blr	150	175	300	325	mum	??	??
400	425	ncr	kol	550	575	400	425	ncr	450	475
500	525	kol	hyd	650	675	500	525	kol	550	575
						??	??	hyd	650	675

Merge-Left-Join

<i>Left Table</i>				<i>Right Table</i>				<i>Merged Table (Left Join)</i>				
VOL	REV	HQ		HQ	EXP	EMPCNT		VOL	REV	HQ	EXP	EMPCNT
100	125	blr	—	che	250	275		100	125	blr	150	175
200	225	che	—	ncr	450	475		200	225	che	250	275
300	325	mum	—	blr	150	175		300	325	mum	??	??
400	425	ncr	—	kol	550	575		400	425	ncr	450	475
500	525	kol	—	hyd	650	675		500	525	kol	550	575

Merge-Right-Join

<i>Left Table</i>			<i>Right Table</i>			<i>Merged Table (Right Join)</i>				
VOL	REV	HQ	HQ	EXP	EMPCNT	VOL	REV	HQ	EXP	EMPCNT
100	125	blr	che	250	275	200	225	che	250	275
200	225	che	ncr	450	475	400	425	ncr	450	475
300	325	mum	blr	150	175	100	125	blr	150	175
400	425	ncr	kol	550	575	500	525	kol	550	575
500	525	kol	hyd	650	675	??	??	hyd	650	675

Merge-Cross-Inner-Join

<i>Left Table</i>			<i>Right Table</i>			<i>Merged Table (Cross-Inner-Join)</i>				
VOL	REV	HQ	HQ	EXP	EMPCNT	VOL	REV	HQ	EXP	EMPCNT
100	125	blr	che	250	275	100	125	blr	150	175
200	225	che	ncr	450	475	100	125	blr	650	675
300	325	mum	blr	150	175	200	225	che	250	275
400	425	ncr	kol	550	575	400	425	ncr	450	475
500	525	kol	blr	650	675	500	525	kol	550	575