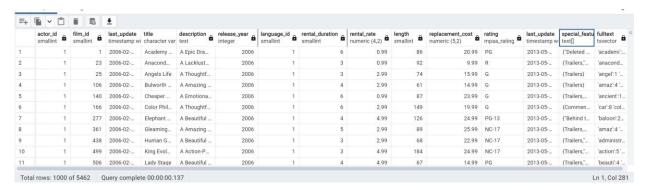Lesson 5: Joins and Unions

1. Join the film to the film_actor table.

Select fa.actor_id, fa.film_id, fa.last_update, f.title , f.description, f.release_year, f.language_id, f.rental_duration, f.rental_rate, f.length, f.replacement_cost, f.rating, f.last_update, f.special_features, f.fulltext from film_actor fa join film f on fa.film_id = f.film_id

	actor_id smallint	film_id smallint	last_update timestamp wi	title character var	description text	release_year integer	language_id smallint	rental_duration smallint	rental_rate numeric (4,2)	length smallint	replacement_cost numeric (5,2)	rating mpaa_rating	last_update timestamp w	special_featu text[]	fulltext tsvector
1	1	1	2006-02-...	Academy ...	A Epic Dra...	2006	1	6	0.99	86	20.99	PG	2013-05-...	{"Deleted ...	'academi':...
2	1	23	2006-02-...	Anacond...	A Lacklust...	2006	1	3	0.99	92	9.99	R	2013-05-...	{Trailers,"...	'anacond...
3	1	25	2006-02-...	Angels Life	A Thoughtf...	2006	1	3	2.99	74	15.99	G	2013-05-...	{Trailers}	'angel':1 '...
4	1	106	2006-02-...	Bulworth ...	A Amazing ...	2006	1	4	2.99	61	14.99	G	2013-05-...	{Trailers}	'amaz':4 '...
5	1	140	2006-02-...	Cheaper ...	A Emotiona...	2006	1	6	0.99	87	23.99	G	2013-05-...	{Trailers,...	'ancient':1...
6	1	166	2006-02-...	Color Phil...	A Thoughtf...	2006	1	6	2.99	149	19.99	G	2013-05-...	{Commen...	'car':8 'col...
7	1	277	2006-02-...	Elephant ...	A Beautiful ...	2006	1	4	4.99	126	24.99	PG-13	2013-05-...	{"Behind t...	'baloon':2...
8	1	361	2006-02-...	Gleaming...	A Amazing ...	2006	1	5	2.99	89	25.99	NC-17	2013-05-...	{Trailers,...	'amaz':4 '...
9	1	438	2006-02-...	Human G...	A Beautiful ...	2006	1	3	2.99	68	22.99	NC-17	2013-05-...	{Trailers,"...	'administr...
10	1	499	2006-02-...	King Evol...	A Action-P...	2006	1	3	4.99	184	24.99	NC-17	2013-05-...	{Trailers,"...	'action':5 '...
11	1	506	2006-02-...	Lady Stage	A Beautiful ...	2006	1	4	4.99	67	14.99	PG	2013-05-...	{Trailers,"...	'beauti':4 '...

Total rows: 1000 of 5462   Query complete 00:00:00.137

Ln 1, Col 281

2. Join the actor table to the film_actor table.

Select fa.actor_id, fa.film_id, fa.last_update, ac.first_name, ac.last_name, ac.last_update from film_actor fa join actor ac on fa.actor_id = ac.actor_id

	actor_id smallint	film_id smallint	last_update timestamp without time zone	first_name character varying (45)	last_name character varying (45)	last_update timestamp without time zone
1	1	1	2006-02-15 10:05:03	Penelope	Guiness	2013-05-26 14:47:57.62
2	1	23	2006-02-15 10:05:03	Penelope	Guiness	2013-05-26 14:47:57.62
3	1	25	2006-02-15 10:05:03	Penelope	Guiness	2013-05-26 14:47:57.62
4	1	106	2006-02-15 10:05:03	Penelope	Guiness	2013-05-26 14:47:57.62
5	1	140	2006-02-15 10:05:03	Penelope	Guiness	2013-05-26 14:47:57.62
6	1	166	2006-02-15 10:05:03	Penelope	Guiness	2013-05-26 14:47:57.62
7	1	277	2006-02-15 10:05:03	Penelope	Guiness	2013-05-26 14:47:57.62
8	1	361	2006-02-15 10:05:03	Penelope	Guiness	2013-05-26 14:47:57.62
9	1	438	2006-02-15 10:05:03	Penelope	Guiness	2013-05-26 14:47:57.62
10	1	499	2006-02-15 10:05:03	Penelope	Guiness	2013-05-26 14:47:57.62
11	1	506	2006-02-15 10:05:03	Penelope	Guiness	2013-05-26 14:47:57.62

Total rows: 1000 of 5462   Query complete 00:00:00.248

3. Try to join the actor, film_actor, and film table together (3 joins!)

Select fa.actor_id, fa.film_id, fa.last_update, f.title , f.description, f.release_year, f.language_id, f.rental_duration, f.rental_rate, f.length, f.replacement_cost, f.rating, f.last_update, f.special_features, f.fulltext , ac.first_name, ac.last_name, ac.last_update from film_actor fa, actor ac, film f where fa.actor_id = ac.actor_id and fa.film_id = f.film_id

	actor_id smallint	film_id smallint	last_update timestamp wi	title character var	description text	release_year integer	language_id smallint	rental_duratio smallint	rental_rate numeric (4,2)	length smallint	replacement_ numeric (5,2)	rating mpaa_rating	last_update timestamp wi	special_featu text[]	fulltext tsvector	first_name character var	last_name character
1	1	1	2006-02-...	Academy ...	A Epic Dr...	2006	1	6	0.99	86	20.99	PG	2013-05-...	{"Deleted ...	'academi':...	Penelope	Guiness
2	1	23	2006-02-...	Anacond...	A Lacklus...	2006	1	3	0.99	92	9.99	R	2013-05-...	{Trailers," ...	'anacond...	Penelope	Guiness
3	1	25	2006-02-...	Angels Life	A Though...	2006	1	3	2.99	74	15.99	G	2013-05-...	{Trailers}	'angel':1 '...	Penelope	Guiness
4	1	106	2006-02-...	Bulworth ...	A Amazin...	2006	1	4	2.99	61	14.99	G	2013-05-...	{Trailers}	'amaz':4 '...	Penelope	Guiness
5	1	140	2006-02-...	Cheaper ...	A Emotio...	2006	1	6	0.99	87	23.99	G	2013-05-...	{Trailers," ...	'ancient':1...	Penelope	Guiness
6	1	166	2006-02-...	Color Phil...	A Though...	2006	1	6	2.99	149	19.99	G	2013-05-...	{Commen...	'car':8 'col...	Penelope	Guiness
7	1	277	2006-02-...	Elephant ...	A Beautif...	2006	1	4	4.99	126	24.99	PG-13	2013-05-...	{"Behind t...	'baloon':2...	Penelope	Guiness
8	1	361	2006-02-...	Gleaming...	A Amazin...	2006	1	5	2.99	89	25.99	NC-17	2013-05-...	{Trailers,...	'amaz':4 '...	Penelope	Guiness
9	1	438	2006-02-...	Human G...	A Beautif...	2006	1	3	2.99	68	22.99	NC-17	2013-05-...	{Trailers," ...	'administr...	Penelope	Guiness
10	1	499	2006-02-...	King Evol...	A Action-...	2006	1	3	4.99	184	24.99	NC-17	2013-05-...	{Trailers," ...	'action':5 '...	Penelope	Guiness
11	1	506	2006-02-...	Lady Stage	A Beautif...	2006	1	4	4.99	67	14.99	PG	2013-05-...	{Trailers," ...	'beauti':4 '...	Penelope	Guiness

Total rows: 1000 of 5462   Query complete 00:00:00.168

Ln 1, Col 366