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Lesson 5: Joins and Unions

1. Join the film to the film_actor table.

```
select film.film_id, film.title, film.description,  
film.release_year, film.language_id, film.rental_duration,  
film.rental_rate, film.length, film.replacement_cost,  
film.rating, film.last_update, film.special_features,  
film.fulltext, actor_id  
FROM film  
Full join film_actor  
On film.film_id = film_actor.film_id;
```

	film_id integer	title character varying (255)	description text	release_year integer	language_id smallint	rental_duration smallint	rental_rate numeric (4,2)	length smallint	replac nume
1	1	Academy Dinosaur	A Epic Dra...	2006	1	6	0.99	86	
2	23	Anaconda Confessions	A Lacklust...	2006	1	3	0.99	92	
3	25	Angels Life	A Thoughtf...	2006	1	3	2.99	74	
4	106	Bulworth Commandme...	A Amazing ...	2006	1	4	2.99	61	
5	140	Cheaper Clyde	A Emotiona...	2006	1	6	0.99	87	
6	166	Color Philadelphia	A Thoughtf...	2006	1	6	2.99	149	
7	277	Elephant Troian	A Beautiful	2006	1	4	4.99	126	

2. Join the actor table to the film_actor table.

```
select actor.actor_id, actor.first_name, actor.last_name, actor.last_update, film_actor.film_id  
from actor  
FULL JOIN film_actor  
ON actor.actor_id = film_actor.actor_id
```

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

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

```

select film.film_id, film.title, film.description,
film.release_year, film.language_id, film.rental_duration,
film.rental_rate, film.length, film.replacement_cost,
film.rating, film.last_update, film.special_features,
film.fulltext, film_actor.actor_id, actor.first_name, actor.last_name
FROM film AS film
FULL JOIN
film_actor AS film_actor
On film.film_id = film_actor.film_id
FULL JOIN
actor AS actor
ON film_actor.last_update = actor.last_update;

```

	film_id integer	title character varying (255)	description text	release_year integer	language_id smallint	rental_duration smallint	rental_rate numeric (4,2)	length smallint	repl num
1	1	Academy Dinosaur	A Epic Dra...	2006	1	6	0.99	86	
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