

PostgreSQL LEFT JOIN

Query Editor Query History Explain Messages

```
1 --The following statement uses the LEFT JOIN clause to join film table with the inventory table:
2 SELECT
3     film.film_id,
4     title,
5     inventory_id
6 FROM
7     film
8 LEFT JOIN inventory
9     ON inventory.film_id = film.film_id
10 ORDER BY title;
```

Data Output

	film_id integer	title character varying (255)	inventory_id integer
1	1	Academy Dinosaur	6
2	1	Academy Dinosaur	1
3	1	Academy Dinosaur	4
4	1	Academy Dinosaur	7
5	1	Academy Dinosaur	3
6	1	Academy Dinosaur	5
7	1	Academy Dinosaur	8
8	1	Academy Dinosaur	2
9	2	Ace Goldfinger	9
10	2	Ace Goldfinger	10
11	2	Ace Goldfinger	11

Query Editor Query History Explain Messages

```
1 --The following statement adds a WHERE clause to find the films that are not in the inventory:
2 SELECT
3     film.film_id,
4     film.title,
5     inventory_id
6 FROM
7     film
8 LEFT JOIN inventory
9     ON inventory.film_id = film.film_id
10 WHERE inventory.film_id IS NULL
11 ORDER BY title;
```

Data Output

	film_id integer	title character varying (255)	inventory_id integer
1	14	Alice Fantasia	[null]
2	33	Apollo Teen	[null]
3	36	Argonauts Town	[null]
4	38	Ark Ridgemont	[null]
5	41	Arsenic Independence	[null]
6	87	Boondock Ballroom	[null]
7	108	Butch Panther	[null]
8	128	Catch Amistad	[null]
9	144	Chinatown Gladiator	[null]
10	148	Chocolate Duck	[null]
11	171	Commandments Express	[null]

Query Editor Query History Explain Messages

```
1 --The following statement returns the same result.
2 --The difference is that it uses the table aliases to make the query more concise:
3 SELECT
4     f.film_id,
5     title,
6     inventory_id
7 FROM
8     film f
9 LEFT JOIN inventory i
10     ON i.film_id = f.film_id
11 WHERE i.film_id IS NULL
12 ORDER BY title;
```





Data Output

	film_id integer	title character varying (255)	inventory_id integer
1	14	Alice Fantasia	[null]
2	33	Apollo Teen	[null]
3	36	Argonauts Town	[null]
4	38	Ark Ridgemont	[null]
5	41	Arsenic Independence	[null]
6	87	Boondock Ballroom	[null]
7	108	Butch Panther	[null]
8	128	Catch Amistad	[null]
9	144	Chinatown Gladiator	[null]
10	148	Chocolate Duck	[null]

Query EditorQuery HistoryExplainMessages

```
1  --If both tables have the same column name used in the ON clause, you can use the USING syntax like this
2  SELECT
3      f.film_id,
4      title,
5      inventory_id
6  FROM
7      film f
8  LEFT JOIN inventory i USING (film_id)
9  WHERE i.film_id IS NULL
10 ORDER BY title;
```

Data Output

	 film_id integer	 title character varying (255)	 inventory_id integer	
1	14	Alice Fantasia		[null]
2	33	Apollo Teen		[null]
3	36	Argonauts Town		[null]
4	38	Ark Ridgemont		[null]
5	41	Arsenic Independence		[null]
6	87	Boondock Ballroom		[null]
7	108	Butch Panther		[null]
8	128	Catch Amistad		[null]
9	144	Chinatown Gladiator		[null]
10	148	Chocolate Duck		[null]
11	171	Commandments Express		[null]