

## Section 3 LEFT JOIN

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Query Editor Query History

```
1 --following statement uses the LEFT JOIN clause to join film table with the inventorytable
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 Explain Messages Notifications

	film_id integer	title character varying (255)	inventory_id integer
67	13	Ali Forever	67
68	13	Ali Forever	68
69	13	Ali Forever	69
70	13	Ali Forever	70
71	14	Alice Fantasia	[null]
72	15	Alien Center	74
73	15	Alien Center	71

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Query Editor Query History

```
1 --This 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 Explain Messages Notifications

	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]

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Query Editor Query History

```

1  --This 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 Explain Messages Notifications

	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 Ridgmont	[null]

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Query Editor Query History

```

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 Explain Messages Notifications

	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 Ridgmont	[null]
5	41	Arsenic Independence	[null]
6	87	Boondock Ballroom	[null]