


POSTGRESQL SUBQUERY

PostgreSQL subquery with IN operator


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Query EditorQuery HistoryExplainNotificationsMessages

```
1 --get films that have the returned date between 2005-05-29 and 2005-05-30
2 SELECT
3     inventory.film_id
4 FROM
5     rental
6 INNER JOIN inventory ON inventory.inventory_id = rental.inventory_id
7 WHERE
8     return_date BETWEEN '2005-05-29'
9 AND '2005-05-30';
```

Data Output

	film_id smallint	
1	15	
2	19	
3	45	
4	50	
5	52	
6	54	
7	68	
8	73	
9	83	

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```
1 --It returns multiple rows we use this query as a subquery in the WHERE clause of a query
2 SELECT
3     film_id,
4     title
5 FROM
6     film
7 WHERE
8     film_id IN (
9         SELECT
10             inventory.film_id
11         FROM
12             rental
13         INNER JOIN inventory ON inventory.inventory_id = rental.inventory_id
14         WHERE
15             return_date BETWEEN '2005-05-29'
16         AND '2005-05-30'
17     );
```

Data Output

	film_id [PK] integer	title character varying (255)
1	307	Fellowship Autumn
2	255	Driving Polish
3	388	Gunfight Moon
4	130	Celebrity Horn
5	563	Massacre Usual
6	397	Hanky October

Query Editor
Query History
Explain
Notifications
Messages

```

1  --EXISTS operator only cares about the number of rows returned from the subquery,
2  --not the content of the rows, therefore, the common coding convention of EXISTS
3  SELECT
4      first_name,
5      last_name
6  FROM
7      customer
8  WHERE
9      EXISTS (
10         SELECT
11             1
12         FROM
13             payment
14         WHERE
15             payment.customer_id = customer.customer_id
16     );

```

Data Output

	first_name character varying (45)	last_name character varying (45)	
1	Jared	Ely	
2	Mary	Smith	
3	Patricia	Johnson	
4	Linda	Williams	
5	Barbara	Jones	
6	Elizabeth	Brown	
7	Jennifer	Davis	