POSTGRESQL EXISTS

Find customers who have at least one payment whose amount is greater than 11.

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dvdrental/postgres@PostgreSQL 13 ∨

Query Editor Query History Explain Notifications

```
1   --This statement returns customers who have paid at least one rental with an amount greater than 11
2   SELECT first_name,
3          last_name
4   FROM customer c
5   WHERE EXISTS
6       (SELECT 1
7        FROM payment p
8        WHERE p.customer_id = c.customer_id
9          AND amount > 11 )
10  ORDER BY first_name,
11          last_name;
```

Data Output   Messages

	first_name character varying (45) 🔒	last_name character varying (45) 🔒
1	Karen	Jackson
2	Kent	Arsenault
3	Nicholas	Barfield
4	Rosemary	Schmidt
5	Tanya	Gilbert
6	Terrance	Roush
7	Vanessa	Sims
8	Victoria	Gibson

NOT EXISTS

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Query Editor Query History Explain Notifications

```
1   -- returns customers have not made any payment that greater than 11
2   SELECT first_name,
3          last_name
4   FROM customer c
5   WHERE NOT EXISTS
6       (SELECT 1
7        FROM payment p
8        WHERE p.customer_id = c.customer_id
9          AND amount > 11 )
10  ORDER BY first_name,
11          last_name;
```

Data Output   Messages

	first_name character varying (45) 🔒	last_name character varying (45) 🔒
1	Aaron	Selby
2	Adam	Gooch
3	Adrian	Clary
4	Agnes	Bishop
5	Alan	Kahn
6	Albert	Crouse
7	Alberto	Henning
8	Alex	Gresham

EXISTS and NULL

Query Editor   Query History   Explain   Notifications

```
1   --If the subquery returns NULL, EXISTS returns true.
2   SELECT
3       first_name,
4       last_name
5   FROM
6       customer
7   WHERE
8       EXISTS( SELECT NULL )
9   ORDER BY
10      first_name,
11      last_name;
12
```

Data Output   Messages

	first_name character varying (45)	last_name character varying (45)
1	Aaron	Selby
2	Adam	Gooch
3	Adrian	Clary
4	Agnes	Bishop
5	Alan	Kahn
6	Albert	Crouse
7	Alberto	Henning
8	Alex	Gresham
9	Alexander	Fennell