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postgres/postgres@PostgreSQL 17



Query Query History

```

10      name VARCHAR(50),
11      city VARCHAR(50)
12  );
13
14  CREATE TABLE orders (
15      order_id INT PRIMARY KEY,
16      customer_id INT,
17      order_date DATE,
18      total_amount DECIMAL(10,2),
19      FOREIGN KEY (customer_id) REFERENCES customers(customer_id)
20  );
21
22  select*from customers;
23  select*from orders;
24
25
    
```

Data Output Messages Notifications



customer_id	name	city
[PK] integer	character varying (50)	character varying (50)

Total rows: 0 Query complete 00:00:00.081



postgres/postgres@PostgreSQL 17



Query Query History

```
10     name VARCHAR(50),
11     city VARCHAR(50)
12 );
13
14 CREATE TABLE orders (
15     order_id INT PRIMARY KEY,
16     customer_id INT,
17     order_date DATE,
18     total_amount DECIMAL(10,2),
19     FOREIGN KEY (customer_id) REFERENCES customers(customer_id)
20 );
21
22 select*from customers;
23 select*from orders;
24
25
```

Data Output Messages Notifications



order_id	customer_id	order_date	total_amount
[PK] Integer	Integer	date	numeric (10,2)

Total rows: 0 Query complete 00:00:00.243

✓ Successfully run. Total query runtime: 238 msec. 0 rows affected. ✕



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postgres/postgres@PostgreSQL 17



Query Query History

25

26 ▼ **INSERT INTO** customers (customer_id, name, city) **VALUES**

27 (1, 'Amit Sharma', 'Mumbai'),

28 (2, 'Priya Verma', 'Delhi'),

29 (3, 'Rahul Mehta', 'Bangalore'),

30 (4, 'Sneha Kapoor', 'Mumbai'),

31 (5, 'Vikram Singh', 'Pune');|

32

33 ▼ **INSERT INTO** orders (order_id, customer_id, order_date, total_amount) **VALUES**

34 (101, 1, '2025-01-05', 2500.00),

35 (102, 2, '2025-01-06', 1800.00),

36 (103, 1, '2025-01-10', 3200.00),

37 (104, 3, '2025-02-01', 4500.00),

38 (105, 1, '2025-02-05', 1500.00),

39 (106, 4, '2025-02-07', 2000.00),

40 (107, 2, '2025-02-15', 3000.00);

41

Data Output Messages Notifications



Showing rows: 1 to 5

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of 1



	customer_id [PK] integer	name character varying (50)	city character varying (50)
1	1	Amit Sharma	Mumbai
2	2	Priya Verma	Delhi
3	3	Rahul Mehta	Bangalore
4	4	Sneha Kapoor	Mumbai
5	5	Vikram Singh	Pune

Total rows: 5

Query complete 00:00:00.081

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postgres/postgres@PostgreSQL 17

No limit

Query Query History

```

31  (5, 'Vikram Singh', 'Pune');
32
33  ✓ INSERT INTO orders (order_id, customer_id, order_date, total_amount) VALUES
34  (101, 1, '2025-01-05', 2500.00),
35  (102, 2, '2025-01-06', 1800.00),
36  (103, 1, '2025-01-10', 3200.00),
37  (104, 3, '2025-02-01', 4500.00),
38  (105, 1, '2025-02-05', 1500.00),
39  (106, 4, '2025-02-07', 2000.00),
40  (107, 2, '2025-02-15', 3000.00);
41
42  select*from orders;
43
44
45
46
  
```

Data Output Messages Notifications

Showing rows: 1 to 7 Page No: 1 of 1

	order_id [PK] Integer	customer_id Integer	order_date date	total_amount numeric (10,2)
1	101	1	2025-01-05	2500.00
2	102	2	2025-01-06	1800.00
3	103	1	2025-01-10	3200.00
4	104	3	2025-02-01	4500.00
5	105	1	2025-02-05	1500.00
6	106	4	2025-02-07	2000.00
7	107	2	2025-02-15	3000.00

Total rows: 7 Query complete 00:00:00.263



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Query Query History

```

49
50
51 SELECT name, city
52 FROM customers
53 WHERE city = 'Mumbai'
54 ORDER BY name ASC;
55
56
57
58
59
60
61
62
63
64
65
  
```

Data Output Messages Notifications



Showing rows: 1 to 2

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	name character varying (50)	city character varying (50)
1	Amit Sharma	Mumbal
2	Sneha Kapoor	Mumbal

Total rows: 2

Query complete 00:00:00.220

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Query Query History

```

60
61
62
63
64 SELECT c.name, SUM(o.total_amount) AS total_spent
65 FROM customers c
66 JOIN orders o ON c.customer_id = o.customer_id
67 GROUP BY c.name
68 ORDER BY total_spent DESC;
69
70
71
72
73
74
75
  
```

Data Output Messages Notifications

Showing rows: 1 to 4 Page No: 1 of 1

	name character varying (50)	total_spent numeric
1	Amit Sharma	7200.00
2	Priya Verma	4800.00
3	Rahul Mehta	4500.00
4	Sneha Kapoor	2000.00

Total rows: 4 Query complete 00:00:00.090



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Query

Query History

80

81

82

83

84 **SELECT** o.order_id, c.name, o.order_date, o.total_amount85 **FROM** orders o86 **INNER JOIN** customers c **ON** o.customer_id = c.customer_id;

87

88

89

90

91

92

93

Data Output

Messages

Notifications



Showing rows: 1 to 7

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|<

<<

>>

>

	order_id integer	name character varying (50)	order_date date	total_amount numeric (10,2)
1	101	Amit Sharma	2025-01-05	2500.00
2	102	Priya Verma	2025-01-06	1800.00
3	103	Amit Sharma	2025-01-10	3200.00
4	104	Rahul Mehta	2025-02-01	4500.00
5	105	Amit Sharma	2025-02-05	1500.00
6	106	Sneha Kapoor	2025-02-07	2000.00
7	107	Priya Verma	2025-02-15	3000.00

Total rows: 7

Query complete 00:00:00.078



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> 1..3 Sequences

▼ Tables (4)

> customers

> employees

> orders

postgres/postgres@PostgreSQL 17



Query Query History

```
95
96 -- 4. LEFT JOIN (Customers with no orders)
97
98
99
100 ▼ SELECT c.name, o.order_id
101 FROM customers c
102 LEFT JOIN orders o ON c.customer_id = o.customer_id
103 WHERE o.order_id IS NULL;
104
105
106
107
108
```

Data Output Messages Notifications



Showing rows: 1 to 1 Page No: 1 of 1

	name character varying (50)	order_id integer
1	Vikram Singh	[null]

Total rows: 1 Query complete 00:00:00.134

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Query Query History

```

107
108
109 -- 5. SUBQUERY (Customers spending above average)
110 SELECT name
111 FROM customers
112 WHERE customer_id IN (
113     SELECT customer_id
114     FROM orders
115     GROUP BY customer_id
116     HAVING SUM(total_amount) > (
117         SELECT AVG(total_amount) FROM orders
118     )
119 );
120
121

```

Data Output Messages Notifications



Showing rows: 1 to 3 Page No: 1 of 1

	name character varying (50)
1	Amit Sharma
2	Priya Verma
3	Rahul Mehta

Total rows: 3 Query complete 00:00:00.125

✓ Successfully run. Total query runtime: 125 msec. 3 rows affected. ✕

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postgres/postgres@PostgreSQL 17



Query Query History

```

118 )
119 );
120
121
122
123 -- 6. CREATE VIEW
124 CREATE VIEW customer_sales AS
125 SELECT c.customer_id, c.name, SUM(o.total_amount) AS total_sales
126 FROM customers c
127 JOIN orders o ON c.customer_id = o.customer_id
128 GROUP BY c.customer_id, c.name;
129
130
131
    
```

Data Output Messages Notifications

CREATE VIEW

Query returned successfully in 96 msec.

Total rows: Query complete 00:00:00.096



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Query Query History

```
124 CREATE VIEW customer_sales AS
125 SELECT c.customer_id, c.name, SUM(o.total_amount) AS total_sales
126 FROM customers c
127 JOIN orders o ON c.customer_id = o.customer_id
128 GROUP BY c.customer_id, c.name;
129
130
131
132
133 -- View usage example
134 SELECT * FROM customer_sales WHERE total_sales > 4000;
135
136
137
```

Data Output Messages Notifications



Showing rows: 1 to 3

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	customer_id integer	name character varying (50)	total_sales numeric
1	2	Priya Verma	4800.00
2	1	Amit Sharma	7200.00
3	3	Rahul Mehta	4500.00

Total rows: 3

Query complete 00:00:00.096

✓ Successfully run. Total query runtime: 96 msec. 3 rows affected. >

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No limit

Query Query History

```

151
152
153
154
155
156 -- 7. OPTIMIZE WITH INDEX
157 CREATE INDEX idx_orders_customer_id ON orders(customer_id);
158
159
160
161
162
163
164

```

Data Output **Messages** Notifications

CREATE INDEX

Query returned successfully in 103 msec.

Total rows: Query complete 00:00:00.103

✓ Query returned successfully in 103 msec. ✕

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