


```
Query Query History Scratch Pad x
29 -- Orders Table
30 CREATE TABLE orders (
31     order_id SERIAL PRIMARY KEY,
32     customer_id INT REFERENCES customers(customer_id),
33     product_id INT REFERENCES products(product_id),
34     order_date DATE,
35     quantity INT
36 );
37 INSERT INTO orders (customer_id, product_id, order_date, quantity) VALUES
38 (1, 1, '2025-07-01', 1),
39 (1, 2, '2025-07-05', 2),
40 (2, 3, '2025-07-03', 4),
41 (3, 4, '2025-07-06', 1),
42 (4, 1, '2025-07-08', 2);
43 select * from orders;
```

Data Output Messages Notifications

Showing rows: 1 to 5 Page No: 1 of 1

	order_id [PK] integer	customer_id integer	product_id integer	order_date date	quantity integer
1	1	1	1	2025-07-01	1
2	2	1	2	2025-07-05	2
3	3	2	3	2025-07-03	4
4	4	3	4	2025-07-06	1
5	5	4	1	2025-07-08	2

Total rows: 5 Query complete 00:00:00.106

✓ Successfully run. Total query runtime: 106 msec. 5 rows affected. ✕

CRLF Ln 43, Col 22

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44
45 --QUERY select, where, group by, order by
46 -- 1. Select all customers from USA
47 SELECT * FROM customers
48 WHERE country = 'USA';
49
50
```

Data Output Messages Notifications

Showing rows: 1 to 2 Page No: 1 of 1

	customer_id [PK] integer	name character varying (50)	email character varying (100)	country character varying (50)
1	1	John Doe	john@example.com	USA
2	3	Mike Brown	mike@example.com	USA

Total rows: 2 Query complete 00:00:00.113

CRLF Ln 50, Col 1

```
45 --QUERY select, where, group by, order by
46 -- 1. Select all customers from USA
47 SELECT * FROM customers
48 WHERE country = 'USA';
49
50
```

Data Output Messages Notifications

Showing rows: 1 to 2 Page No: 1 of 1

	customer_id [PK] integer	name character varying (50)	email character varying (100)	country character varying (50)
1	1	John Doe	john@example.com	USA
2	3	Mike Brown	mike@example.com	USA

Total rows: 2 Query complete 00:00:00.113

CRLF Ln 50, Col 1

Data Output

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Showing rows: 1 to 5

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	order_id [PK] integer	customer_id integer	product_id integer	order_date date	quantity integer
1	5	4	1	2025-07-08	2
2	4	3	4	2025-07-06	1
3	2	1	2	2025-07-05	2
4	3	2	3	2025-07-03	4
5	1	1	1	2025-07-01	1

Data Output				Messages	Notifications		
					Showing rows: 1 to 4		
				Page No: 1		of 1	
	product_id integer	total_sold bigint					
1	3	4					
2	4	1					
3	2	2					
4	1	3					

	order_id integer	name character varying (50)	product_name character varying (100)	quantity integer
1	1	John Doe	Laptop	1
2	2	John Doe	Phone	2
3	3	Jane Smith	Chair	4
4	4	Mike Brown	Table	1
5	5	Sara Khan	Laptop	2

```

64 INNER JOIN products p ON o.product_id = p.product_id,
65
66 -- LEFT JOIN: All customers and their orders (including those without orders)
67 SELECT c.name, o.order_id
68 FROM customers c
69 LEFT JOIN orders o ON c.customer_id = o.customer_id;
70

```

Data Output Messages Notifications

Showing rows: 1 to 5 Page No: 1 of 1

	name character varying (50)	order_id integer
1	John Doe	1
2	John Doe	2
3	Jane Smith	3
4	Mike Brown	4
5	Sara Khan	5

✓ Successfully run. Total query runtime: 160 msec. 5 rows affected. ✕

Total rows: 5 Query complete 00:00:00.160 CRLF Ln 66, Col 1

```

70
71 -- RIGHT JOIN: All products and their orders
72 SELECT p.product_name, o.order_id
73 FROM orders o
74 RIGHT JOIN products p ON o.product_id = p.product_id;
75

```

Data Output Messages Notifications

Showing rows: 1 to 5 Page No: 1 of 1

	product_name character varying (100)	order_id integer
1	Laptop	1
2	Phone	2
3	Chair	3
4	Table	4
5	Laptop	5

✓ Successfully run. Total query runtime: 90 msec. 5 rows affected. ✕

Total rows: 5 Query complete 00:00:00.090 CRLF Ln 72, Col 1

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75
76 c) Subqueries
77 -- Customers who bought more than 2 products in total
78 SELECT name
79 FROM customers
80 WHERE customer_id IN (
81     SELECT customer_id
82     FROM orders
83     GROUP BY customer_id
84     HAVING SUM(quantity) > 2
85 );
86

```

Data Output Messages Notifications

Showing rows: 1 to 2 Page No: 1 of 1

	name character varying (50)
1	John Doe
2	Jane Smith

✓ Successfully run. Total query runtime: 169 msec. 2 rows affected. ✕

Total rows: 2 Query complete 00:00:00.169 CRLF Ln 78, Col 1

```

76 c) Subqueries
77 -- Customers who bought more than 2 products in total
78 SELECT name
79 FROM customers
80 WHERE customer_id IN (
81     SELECT customer_id
82     FROM orders
83     GROUP BY customer_id
84     HAVING SUM(quantity) > 2
85 );
86

```

Data Output Messages Notifications

Showing rows: 1 to 2 Page No: 1 of 1

	name character varying (50)
1	John Doe
2	Jane Smith

Total rows: 2 Query complete 00:00:00.169

CRLF Ln 78, Col 1

```

85 );
86 d) Aggregate Functions
87 -- Total revenue per product
88 SELECT p.product_name, SUM(o.quantity * p.price) AS revenue
89 FROM orders o
90 JOIN products p ON o.product_id = p.product_id
91 GROUP BY p.product_name;
92

```

Data Output Messages Notifications

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

	product_name character varying (100)	revenue numeric
1	Chair	480.00
2	Phone	1000.00
3	Table	300.00
4	Laptop	2400.00

Total rows: 4 Query complete 00:00:00.122

CRLF Ln 88, Col 1

93 -- Average order quantity
94 SELECT AVG(quantity) AS avg_quantity FROM orders;

Data OutputMessagesNotifications

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

	avg_quantity numeric
1	2.0000000000000000

✓ Successfully run. Total query runtime: 100 msec. 1 rows affected. ✕

Total rows: 1Query complete 00:00:00.100CRLF Ln 94, Col 1

95
96 e) Create Views
97 -- View for total sales per country
98 CREATE VIEW sales_by_country AS
99 SELECT c.country, SUM(o.quantity * p.price) AS total_sales
100 FROM orders o
101 JOIN customers c ON o.customer_id = c.customer_id
102 JOIN products p ON o.product_id = p.product_id
103 GROUP BY c.country;
104
105 -- View usage
106 SELECT * FROM sales_by_country;
107

Data OutputMessagesNotifications

SQL

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

	country character varying (50)	total_sales numeric
1	USA	2100.00
2	Canada	480.00
3	India	1600.00

✓ Successfully run. Total query runtime: 99 msec. 3 rows affected. ✕

Total rows: 3Query complete 00:00:00.099CRLF Ln 106, Col 1