

saleco/postgres@PostgreSQL 16

Query Query History

```
1 -- 1. Write a query to count the number of invoices.
2 SELECT COUNT(*) AS invoice_count FROM invoice;
3
```

Data Output Messages Notifications

	invoice_count	
1	8	

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Query Query History

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4
5 -- 2. Write a query to count the number of customers with a customer balance over $500.
6 SELECT COUNT(*) FROM customer WHERE cus_balance > 500;
7
```

Data Output Messages Notifications

	count	
1	2	

Query Query History

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7
8 -- 3. Generate a listing of all purchases made by the customers
9 SELECT
10     c.cus_code,
11     c.cus_lname,
12     c.cus_fname,
13     i.inv_number,
14     i.inv_date,
15     l.p_code,
16     p.p_descript
17 FROM
18     public.customer c
19 JOIN
20     public.invoice i ON c.cus_code = i.cus_code
21 JOIN
22     public.line l ON i.inv_number = l.inv_number
23 JOIN
24     public.product p ON l.p_code = p.p_code
25 ORDER BY
26     c.cus_code, i.inv_number;
27
```

Data Output Messages Notifications								
	cus_code integer	cus_lname character varying (15)	cus_fname character varying (15)	inv_number integer	inv_date date	p_code character varying (10)	p_descript character varying (35)	
1	10011	Dunne	Leona	1002	2016-01-16	54778-2T	Rat-tail file, 1/8-in. fine	
2	10011	Dunne	Leona	1004	2016-01-17	23109-HB	Claw hammer	
3	10011	Dunne	Leona	1004	2016-01-17	54778-2T	Rat-tail file, 1/8-in. fine	
4	10011	Dunne	Leona	1008	2016-01-17	WR3/TT3	Steel matting, 4'x8'x1/6", .5" mesh	
5	10011	Dunne	Leona	1008	2016-01-17	PVC23DRT	PVC pipe, 3.5-in., 8-ft	
6	10011	Dunne	Leona	1008	2016-01-17	23109-HB	Claw hammer	
7	10012	Smith	Kathy	1003	2016-01-16	1546-QQ2	Hrd. cloth, 1/4-in., 2x50	
8	10012	Smith	Kathy	1003	2016-01-16	2238/QPD	B&D cordless drill, 1/2-in.	
9	10012	Smith	Kathy	1003	2016-01-16	13-Q2/P2	7.25-in. pwr. saw blade	
10	10014	Orlando	Myron	1001	2016-01-16	13-Q2/P2	7.25-in. pwr. saw blade	
11	10014	Orlando	Myron	1001	2016-01-16	23109-HB	Claw hammer	
12	10014	Orlando	Myron	1006	2016-01-17	2232/QTY	B&D jigsaw, 12-in. blade	
13	10014	Orlando	Myron	1006	2016-01-17	SM-18277	1.25-in. metal screw, 25	
14	10014	Orlando	Myron	1006	2016-01-17	89-WRE-Q	Hicut chain saw, 16 in.	
15	10014	Orlando	Myron	1006	2016-01-17	23109-HB	Claw hammer	
16	10015	O'Brian	Amy	1007	2016-01-17	54778-2T	Rat-tail file, 1/8-in. fine	
17	10015	O'Brian	Amy	1007	2016-01-17	13-Q2/P2	7.25-in. pwr. saw blade	
18	10018	Farriss	Anne	1005	2016-01-17	PVC23DRT	PVC pipe, 3.5-in., 8-ft	

```

28 -- 4. Generate the listing of customer purchases, including the subtotals for each of the invoice line numbers
29
30 SELECT
31     c.cus_code,
32     c.cus_lname,
33     c.cus_fname,
34     i.inv_number,
35     i.inv_date,
36     l.p_code,
37     pr.p_descript,
38     (l.line_units * l.line_price) AS line_subtotal
39 FROM
40     public.customer c
41 JOIN
42     public.invoice i ON c.cus_code = i.cus_code
43 JOIN
44     public.line l ON i.inv_number = l.inv_number
45 JOIN
46     public.p pr ON l.p_code = pr.p_code -- Join the product table to include product descriptions
47 ORDER BY
48     i.inv_number, l.line_number;
49

```

Data Output Messages Notifications								
	cus_code integer	cus_lname character varying (15)	cus_fname character varying (15)	inv_number integer	inv_date date	p_code character varying (10)	p_descript character varying (35)	line_subtotal numeric
1	10014	Orlando	Myron	1001	2016-01-16	23109-HB	Claw hammer	9.9500
2	10011	Dunne	Leona	1002	2016-01-16	54778-2T	Rat-tail file, 1/8-in. fine	9.9800
3	10012	Smith	Kathy	1003	2016-01-16	2238/QPD	B&D cordless drill, 1/2-in.	38.9500
4	10012	Smith	Kathy	1003	2016-01-16	1546-QQ2	Hrd. cloth, 1/4-in., 2x50	39.9500
5	10011	Dunne	Leona	1004	2016-01-17	54778-2T	Rat-tail file, 1/8-in. fine	14.9700
6	10011	Dunne	Leona	1004	2016-01-17	23109-HB	Claw hammer	19.9000
7	10018	Farriss	Anne	1005	2016-01-17	PVC23DRT	PVC pipe, 3.5-in., 8-ft	70.4400
8	10014	Orlando	Myron	1006	2016-01-17	SM-18277	1.25-in. metal screw, 25	20.9700
9	10014	Orlando	Myron	1006	2016-01-17	2232/QTY	B&D jigsaw, 12-in. blade	109.9200
10	10014	Orlando	Myron	1006	2016-01-17	23109-HB	Claw hammer	9.9500
11	10014	Orlando	Myron	1006	2016-01-17	89-WRE-Q	Hicut chain saw, 16 in.	256.9900
12	10015	O'Brian	Amy	1007	2016-01-17	54778-2T	Rat-tail file, 1/8-in. fine	4.9900
13	10011	Dunne	Leona	1008	2016-01-17	PVC23DRT	PVC pipe, 3.5-in., 8-ft	29.3500
14	10011	Dunne	Leona	1008	2016-01-17	WR3/TT3	Steel matting, 4'x8'x1/6", .5" mesh	359.8500
15	10011	Dunne	Leona	1008	2016-01-17	23109-HB	Claw hammer	9.9500

Query Query History

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51 -- 5. List the balance characteristics of the customers who have made purchases during the current
52 -- invoice cycle--that is, for the customers who appear in the INVOICE table.
53
54 SELECT
55     c.cus_code,
56     c.cus_lname,
57     c.cus_fname,
58     c.cus_balance
59 FROM
60     public.customer c
61 WHERE
62     c.cus_code IN (SELECT DISTINCT inv.cus_code FROM public.invoice inv)
63 ORDER BY
64     c.cus_code;
65

```

Data Output Messages Notifications

	cus_code [PK] integer	cus_lname character varying (15)	cus_fname character varying (15)	cus_balance numeric (9,2)
1	10011	Dunne	Leona	0.00
2	10012	Smith	Kathy	345.86
3	10014	Orlando	Myron	0.00
4	10015	O'Brian	Amy	0.00
5	10018	Farriss	Anne	216.55

Query Query History

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68 -- 6. Find the listing of customers who did not make purchases during the invoicing period.
69
70 SELECT
71     c.cus_code,
72     c.cus_lname,
73     c.cus_fname
74 FROM
75     public.customer c
76 LEFT JOIN
77     public.invoice i ON c.cus_code = i.cus_code
78 WHERE
79     i.cus_code IS NULL
80 ORDER BY
81     c.cus_code;
82
83

```

Data Output Messages Notifications

	cus_code [PK] integer	cus_lname character varying (15)	cus_fname character varying (15)
1	10010	Ramas	Alfred
2	10013	Olowski	Paul
3	10016	Brown	James
4	10017	Williams	George
5	10019	Smith	Olette

No limit

Query

Query History

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-- 7. Create a query to produce the summary of the value of products currently in inventory.

SELECT SUM(p_qoh * p_price) AS total_inventory_value

FROM public.p;

Data Output

Messages

Notifications

	total_inventory_value numeric
1	13724.92