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Welcome ecommerce\_db/postgres@PostgreSQL 17\*

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Data Output Messages Notifications

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	invoiceno character varying (20)	stockcode character varying (2)	1 ▾ <code>SELECT * FROM sales_data WHERE Country = 'Germany';</code>	quantity integer	invoicedate timestamp without time zone	unitprice numeric (10,2)	customerid integer	country character varying (100)
1	536527	22809	SET OF 6 T-LIGHTS SANTA	6	2010-12-01 13:04:00	2.95	12662	Germany
2	536527	84347	ROTATING SILVER ANGELS T-LIGHT HLDR	6	2010-12-01 13:04:00	2.55	12662	Germany
3	536527	84945	MULTI COLOUR SILVER T-LIGHT HOLDER	12	2010-12-01 13:04:00	0.85	12662	Germany
4	536527	22242	5 HOOK HANGER MAGIC TOADSTOOL	12	2010-12-01 13:04:00	1.65	12662	Germany
5	536527	22244	3 HOOK HANGER MAGIC GARDEN	12	2010-12-01 13:04:00	1.95	12662	Germany
6	536527	22243	5 HOOK HANGER RED MAGIC TOADSTO...	12	2010-12-01 13:04:00	1.65	12662	Germany
7	536527	47421	ASSORTED COLOUR LIZARD SUCTION H...	24	2010-12-01 13:04:00	0.42	12662	Germany
8	536527	20712	JUMBO BAG WOODLAND ANIMALS	10	2010-12-01 13:04:00	1.95	12662	Germany
9	536527	20713	JUMBO BAG OWLS	10	2010-12-01 13:04:00	1.95	12662	Germany
10	536527	22837	HOT WATER BOTTLE BABUSHKA	4	2010-12-01 13:04:00	4.65	12662	Germany
11	536527	22969	HOMEMADE JAM SCENTED CANDLES	12	2010-12-01 13:04:00	1.45	12662	Germany
12	536527	22973	CHILDREN'S CIRCUS PARADE MUG	12	2010-12-01 13:04:00	1.65	12662	Germany
13	536527	84569B	PACK 3 FIRE ENGINE/CAR PATCHES	12	2010-12-01 13:04:00	1.25	12662	Germany
14	536527	22549	PICTURE DOMINOES	12	2010-12-01 13:04:00	1.45	12662	Germany
15	536527	POST	POSTAGE	1	2010-12-01 13:04:00	18.00	12662	Germany
16	C536548	22244	3 HOOK HANGER MAGIC GARDEN	-4	2010-12-01 14:33:00	1.95	12472	Germany
17	C536548	22242	5 HOOK HANGER MAGIC TOADSTOOL	-5	2010-12-01 14:33:00	1.65	12472	Germany

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Query History Scratch Pad

```
1 SELECT * FROM sales_data
2 LIMIT 7;
```

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	invoiceno character varying (20)	stockcode character varying (20)	description text	quantity integer	invoicedate timestamp without time zone	unitprice numeric (10,2)	customerid integer	country character varying (100)
1	536365	85123A	WHITE HANGING HEART T-LIGHT HOLDER	6	2010-12-01 08:26:00	2.55	17850	United Kingdom
2	536365	71053	WHITE METAL LANTERN	6	2010-12-01 08:26:00	3.39	17850	United Kingdom
3	536365	84406B	CREAM CUPID HEARTS COAT HANGER	8	2010-12-01 08:26:00	2.75	17850	United Kingdom
4	536365	84029G	KNITTED UNION FLAG HOT WATER BOTTLE	6	2010-12-01 08:26:00	3.39	17850	United Kingdom
5	536365	84029E	RED WOOLLY HOTTIE WHITE HEART.	6	2010-12-01 08:26:00	3.39	17850	United Kingdom
6	536365	22752	SET 7 BABUSHKA NESTING BOXES	2	2010-12-01 08:26:00	7.65	17850	United Kingdom
7	536365	21730	GLASS STAR FROSTED T-LIGHT HOLDER	6	2010-12-01 08:26:00	4.25	17850	United Kingdom



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	description text	unitprice numeric (10,2)
1	Manual	38970.00
2	AMAZON FEE	17836.46
3	AMAZON FEE	16888.02
4	AMAZON FEE	16453.71
5	AMAZON FEE	13541.33
6	AMAZON FEE	13541.33
7	AMAZON FEE	13541.33

```
1 ▾ SELECT Description, UnitPrice
2   FROM sales_data
3   ORDER BY UnitPrice DESC
4   LIMIT 7;
```

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SQL

	country character varying (100)	totalrevenue numeric
1	United Kingdom	8187806.36
2	Netherlands	284661.54
3	EIRE	263276.82
4	Germany	221698.21
5	France	197403.90
6	Australia	137077.27
7	Switzerland	56385.35
8	Spain	54774.58
9	Belgium	40910.96
10	Sweden	36595.91
11	Japan	35340.62
12	Norway	35163.46
13	Portugal	29367.02
14	Finland	22326.74
15	Channel Islands	20086.29
16	Denmark	18768.14
17	Italy	16890.51

```
1 SELECT Country, SUM(Quantity * UnitPrice) AS TotalRevenue
2 FROM sales_data
3 GROUP BY Country
4 ORDER BY TotalRevenue DESC;
```

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SQL

	description	total
1	WORLD WAR 2 GLIDERS ASSTD DESIGNER	36381
2	JUMBO BAG RED RETROSPOT	36334
3	ASSORTED COLOUR BIRD ORNAMENT	36039
4	POPCORN HOLDER	35317
5	PACK OF 72 RETROSPOT CAKE CASES	30680
6	WHITE HANGING HEART T-LIGHT HOLDER	26437
7	RABBIT NIGHT LIGHT	26315
8	MINI PAINT SET VINTAGE	24753

1 2 3 4 5 6 7 8 9 10

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	customerid	integer
1	12347	
2	12356	
3	12357	
4	12359	
5	12360	
6	12362	
7	12370	
8	12378	
9	12380	
10	12388	
11	12395	
12	12397	
13	12406	
14	12408	
15	12409	
16	12415	
17	12417	

```
1 SELECT DISTINCT CustomerID
2   FROM sales_data
3   GROUP BY CustomerID
4   HAVING SUM(Quantity * UnitPrice) > (
5       SELECT AVG(total)
6       FROM (
7           SELECT CustomerID, SUM(Quantity * UnitPrice) AS total
8             FROM sales_data
9             GROUP BY CustomerID
10      ) AS avg_table
11 );
```

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	invoiceno character varying (20)	customerid integer		
1	536365	17850	United Kingdom	CREAM CUPID HEARTS COAT HANGER
2	536365	17850	United Kingdom	KNITTED UNION FLAG HOT WATER BOTTLE
3	536365	17850	United Kingdom	RED WOOLLY HOTTIE WHITE HEART.
4	536365	17850	United Kingdom	WHITE HANGING HEART T-LIGHT HOLDER
5	536365	17850	United Kingdom	SET 7 BABUSHKA NESTING BOXES
6	536365	17850	United Kingdom	GLASS STAR FROSTED T-LIGHT HOLDER
7	536365	17850	United Kingdom	WHITE METAL LANTERN
8	536365	17850	United Kingdom	CREAM CUPID HEARTS COAT HANGER
9	536365	17850	United Kingdom	KNITTED UNION FLAG HOT WATER BOTTLE
10	536365	17850	United Kingdom	RED WOOLLY HOTTIE WHITE HEART.
11	536365	17850	United Kingdom	WHITE HANGING HEART T-LIGHT HOLDER
12	536365	17850	United Kingdom	SET 7 BABUSHKA NESTING BOXES
13	536365	17850	United Kingdom	GLASS STAR FROSTED T-LIGHT HOLDER
14	536365	17850	United Kingdom	WHITE METAL LANTERN
15	536365	17850	United Kingdom	CREAM CUPID HEARTS COAT HANGER
16	536365	17850	United Kingdom	KNITTED UNION FLAG HOT WATER BOTTLE
17	536365	17850	United Kingdom	

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Query History

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customerid invoiceno

	customerid	invoiceno
1	12346	541431
2	12346	C541433
3	12347	537626
4	12347	537626
5	12347	537626
6	12347	537626
7	12347	537626
8	12347	537626
9	12347	537626
10	12347	537626
11	12347	537626
12	12347	537626
13	12347	537626
14	12347	537626
15	12347	537626
16	12347	537626

```
1 WITH customers AS (
2     SELECT DISTINCT CustomerID, Country
3         FROM sales_data
4 )
5     SELECT c.CustomerID, s.InvoiceNo
6     FROM customers c
7     LEFT JOIN sales_data s ON c.CustomerID = s.CustomerID;
```

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SQL

	invoiceno character varying (20)	customerid integer
1	538353	13798
2	556240	18041
3	559339	13752
4	581456	17530
5	555603	16209
6	538008	12683
7	C558349	[null]
8	549730	15867
9	536739	14180
10	571307	14443
11	569656	14434
12	581475	13069
13	575222	16880
14	C570476	17509
15	549563	14030
16	C541959	14692
17	561719	17519

```
1 WITH invoices AS (
2     SELECT DISTINCT InvoiceNo, CustomerID
3         FROM sales_data
4 )
5     SELECT s.InvoiceNo, c.CustomerID
6         FROM invoices s
7     LEFT JOIN (
8         SELECT DISTINCT CustomerID
9             FROM sales_data
10    ) c ON s.CustomerID = c.CustomerID;
```

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SQL

	month	revenue
1	timestamp without time zone	numeric
1	2010-12-01 00:00:00	748957.02
2	2011-01-01 00:00:00	560000.26
3	2011-02-01 00:00:00	498062.65
4	2011-03-01 00:00:00	683267.08
5	2011-04-01 00:00:00	493207.12
6	2011-05-01 00:00:00	723333.51
7	2011-06-01 00:00:00	691123.12
8	2011-07-01 00:00:00	681300.11
9	2011-08-01 00:00:00	682680.51
10	2011-09-01 00:00:00	1019687.62
11	2011-10-01 00:00:00	1070704.67
12	2011-11-01 00:00:00	1461756.25
13	2011-12-01 00:00:00	433668.01

```
1 -- STEP 12: Monthly revenue trend
2 SELECT DATE_TRUNC('month', InvoiceDate) AS Month,
3       SUM(Quantity * UnitPrice) AS Revenue
4   FROM sales_data
5 GROUP BY Month
6 ORDER BY Month;
```

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