

File Edit View Tools Help

New Database Open Database Write Changes Revert Changes Undo Open Project Save Project Attach Database Close Database

Database Structure Browse Data Edit Pragma Execute SQL



SQL 1\*

```
1  -- Find the 10 most recent orders from the state of Sao Paulo
2  SELECT
3      o.order_id,
4      c.customer_unique_id,
5      c.customer_city,
6      c.customer_state,
7      o.order_purchase_timestamp
8  FROM
9      orders o
10     INNER JOIN
11         customers c ON o.customer_id = c.customer_id
12 WHERE
13     c.customer_state = 'SP'
14 ORDER BY
15     o.order_purchase_timestamp DESC
16 LIMIT 10;
```

	order_id	customer_unique_id	customer_city	customer_state	order_purchase_timestamp
1	10a045cdf6a5650c21e9cfcb60384c16	87ab9fec999db8bd5774917de3cdf01c	sorocaba	SP	2018-10-17 17:30:18
2	a2ac6dad85cf8af5b0afb510a240fe8c	af5454198a97379394cacf676e1e96cb	registro	SP	2018-10-03 18:55:29
3	392ed9afd714e3c74767d0c4d3e3f477	9bb92bebd4cb7511e1a02d5e50bc4655	guarulhos	SP	2018-09-29 09:13:03
4	87ae60ef8b08ae0e5f903cacb53a6904	09687a7b7431a93b5c53b50ba779bf94	taubate	SP	2018-09-11 16:45:54
5	a89abace0dcc01eeb267a9660b5ac126	d05c44a138277ad325d915c6b7ccbcdf	sao paulo	SP	2018-09-06 18:45:47
6	4d59cc2a2e7bb6c0a851725f5888a9b5	230a1e9f42924d41f37fd22a1d4a9707	santana de parnaiba	SP	2018-09-06 14:50:07
7	afb61112fb99b07fe17e591c68c0c84c	0a5dadb73145d29f42f703c97c377ae8	praia grande	SP	2018-09-06 10:48:12
8	cfdfd7862e532c4ec1ed1c6a1b56d320	af5454198a97379394cacf676e1e96cb	registro	SP	2018-09-03 18:45:34
9	4637ca194b6387e2d538dc89b124b0ee	968fac81e2c44fb6c1e3ac2a45e6a102	sao paulo	SP	2018-09-03 14:14:25
10	54282e97f61c23b78330c15b154c867d	ff22e30958c13ffe219db7d711e8f564	sao paulo	SP	2018-09-03 09:06:57

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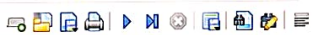
Database Structure Browse Data Edit Pragmas Execute SQL

SQL 1\*

```
53
54
55 -- Find orders with a payment value higher than the average payment value
56 SELECT
57     order_id,
58     payment_value
59 FROM
60     payments
61 WHERE
62     payment_value > (SELECT AVG(payment_value) FROM payments)
63 ORDER BY
64     payment_value DESC
65 LIMIT 10;
66
```

	order_id	payment_value
1	03caa2c082116e1d31e67e9aa3700499	13664.08
2	736e1922ae60d0d6a89247b851902527	7274.88
3	0812eb902a67711a1cb742b3cdaa65ae	6929.31
4	fefacc66af859508bf1a7934eab1e97f	6922.21
5	f5136e38d1a14a4dbd87dff67da82701	6726.66
6	2cc9089445046817a7539d90805e6e5a	6081.54
7	a96610ab360d42a2e5335a3998b4718a	4950.34
8	b4c4b76c642808cbe472a32b86cddc95	4809.44
9	199af31afc78c699f0dbf71fb178d4d4	4764.34
10	8dbc85d1447242f3b127dda390d56e19	4681.78

Execution finished without errors.  
Result: 10 rows returned in 59ms  
At line 56:  
SELECT  
 order\_id,  
 payment\_value  
FROM



SQL 1\*

```
17
18
19
20 -- Find the top 10 cities with the most orders
21 SELECT
22     c.customer_city,
23     COUNT(o.order_id) AS order_count
24 FROM
25     orders o
26 JOIN
27     customers c ON o.customer_id = c.customer_id
28 GROUP BY
29     c.customer_city
30 ORDER BY
31     order_count DESC
32 LIMIT 10;
33
34
```

	customer_city	order_count
1	sao paulo	15540
2	rio de janeiro	6882
3	belo horizonte	2773
4	brasilia	2131
5	curitiba	1521
6	campinas	1444
7	porto alegre	1379
8	salvador	1245
9	guarulhos	1189
10	sao bernardo do campo	938



SQL 1\*

```
35 -- Calculate the average spending per unique customer
36 SELECT
37     c.customer_unique_id,
38     SUM(p.payment_value) AS total_spent,
39     AVG(p.payment_value) AS average_spent_per_order
40 FROM
41     customers c
42 JOIN
43     orders o ON c.customer_id = o.customer_id
44 JOIN
45     payments p ON o.order_id = p.order_id
46 WHERE
47     o.order_status = 'delivered'
48 GROUP BY
49     c.customer_unique_id
50 ORDER BY
51     total_spent DESC
52 LIMIT 10;
```

	customer_unique_id	total_spent	average_spent_per_order
1	0a0a92112bd4c708ca5fde585afaa872	13664.08	13664.08
2	da122df9eeddfedc1dc1f5349a1a690c	7571.63	3785.815
3	763c8b1c9c68a0229c42c9fc6f662b93	7274.88	7274.88
4	dc4802a71eae9be1dd28f5d788ceb526	6929.31	6929.31
5	459bef486812aa25204be022145caa62	6922.21	6922.21
6	ff4159b92c40ebe40454e3e6a7c35ed6	6726.66	6726.66
7	4007669dec559734d6f53e029e360987	6081.54	6081.54
8	eebb5dda148d3893cdaf5b5ca3040ccb	4764.34	4764.34
9	48e1ac109decbb87765a3eade6854098	4681.78	4681.78
10	c8460e4251689ba205045f3ea17884a1	4655.91	1163.9775

```
--
68 -- Create a view to see full order details
69 CREATE VIEW OrderDetails AS
70 SELECT
71     o.order_id,
72     c.customer_unique_id,
73     c.customer_city,
74     pr.product_category_name,
75     oi.price,
76     p.payment_value,
77     o.order_purchase_timestamp
78 FROM
79     orders o
80 JOIN customers c ON o.customer_id = c.customer_id
81 JOIN order_items oi ON o.order_id = oi.order_id
82 JOIN products pr ON oi.product_id = pr.product_id
83 JOIN payments p ON o.order_id = p.order_id;
84
85 --Now, select from the view you just created
86 SELECT * FROM OrderDetails
87 WHERE customer_city = 'sao paulo'
88 LIMIT 5;
89
90
```

	order_id	customer_unique_id	customer_city	product_category_name	price	payment_value	order_purchase_timestamp
1	b2059ed67ce144a36e2aa97d2c9e9ad2	060e732b5b29e8181a18229c7b0b2b5e	sao paulo	moveis_escritorio	139.94	157.73	2018-05-19 16:07:45
2	36e694cf4cbc2a4803200c35e84abdc4	addec96d2e059c80c30fe6871d30d177	sao paulo	informatica_acessorios	14.99	22.77	2018-02-19 14:38:35
3	852d2f4d3773bcbc21c8e09a05a4ea5	295c05e81917928d76245e842748184d	sao paulo	telefonica	27.99	36.39	2018-03-07 15:57:14
4	17825f24877a9289214c301ae0c9424b	7f3a72e8f988c6e735ba118d54f47458	sao paulo	cama_mesa_banho	89.9	34.05	2017-05-11 13:48:47
5	17825f24877a9289214c301ae0c9424b	7f3a72e8f988c6e735ba118d54f47458	sao paulo	cama_mesa_banho	89.9	67.98	2017-05-11 13:48:47

Execution finished without errors.  
Result: query executed successfully. Took 41ms  
At line 91:  
-- Create an index to speed up searches by product category  
CREATE INDEX idx\_order\_details ON order\_details (product\_category\_name);