

```
1 # Simple Queries(SELECT,WHERE,ORDER BY,GROUP BY)
2 -- List all customers from Texas
3 • SELECT * FROM customers
4 WHERE state = 'Texas';
```

Result Grid



Filter Rows:

Edit:



Export/Import:



	customer_id	first_name	last_name	email	state
▶	49	Gary	Rogers	dgregory@golden.info	Texas
	50	Julia	Bailey	jordanfox@yahoo.com	Texas
•	NULL	NULL	NULL	NULL	NULL

```

6  |-- Get all products cheaper than $500, ordered by price ascending
7  •  SELECT * FROM products
8     WHERE price < 500
9     ORDER BY price ASC;

```

Result Grid



Filter Rows:

Edit:



Export/Import:



Wrap Cell Content:







	product_id	product_name	price
▶	106	Smartwatch	101.62
	101	Laptop	125.09
	116	Motherboard	233.27
	119	Charger	340.77
	118	RAM	414.35
•	NULL	NULL	NULL

```

11  |-- Count the number of orders placed by each customer
12  •  SELECT customer_id, COUNT(order_id) AS number_of_orders
13     FROM orders
14     GROUP BY customer_id;

```

Result Grid   Filter Rows: Export:  Wrap Cell Content: 


	customer_id	number_of_orders
▶	1	3
	3	2
	4	1
	5	2
	6	1
	8	2
	9	2
	11	1
	13	2
	14	1
	16	1
	17	3
	23	1
	24	2
	27	1
	28	2
	29	1
	31	1
	33	1


```


17 # JOINS (INNER JOIN, LEFT JOIN, RIGHT JOIN)
18 -- List all orders with customer name (INNER JOIN)
19 • SELECT o.order_id, o.order_date, c.first_name, c.last_name
20 FROM orders o
21 INNER JOIN customers c ON o.customer_id = c.customer_id;
22

```

Result Grid

 Filter Rows:

Export: 

Wrap Cell Content: 

	order_id	order_date	first_name	last_name
▶	1001	2024-09-04	Brandon	Fowler
	1002	2024-07-21	Michael	Price
	1003	2025-03-06	Brandon	Fowler
	1004	2025-01-08	Douglas	Jones
	1005	2024-08-09	Brenda	Brock
	1006	2025-02-27	Autumn	Ritter
	1007	2024-09-10	Paul	Serrano
	1008	2024-06-02	Kathryn	Hart
	1009	2025-04-20	Michael	Stone
	1010	2025-03-14	Martin	Rodriguez
	1011	2024-11-26	Peter	Brown
	1012	2025-04-23	Martin	Rodriguez
	1013	2024-09-18	Richard	Baker
	1014	2024-06-20	Shelby	Morrison
	1015	2024-06-07	Dalton	Bass
	1016	2025-02-17	Andrew	Davis
	1017	2025-02-18	Sarah	Thompson
	1018	2025-04-07	Autumn	Ritter
	1019	2025-03-28	Crystal	Johnson

```

22
23 -- List all customers and their orders (LEFT JOIN)
24 • SELECT c.first_name, c.last_name, o.order_id, o.order_date
25 FROM customers c
26 LEFT JOIN orders o ON c.customer_id = o.customer_id;
27

```

Result Grid					Filter Rows:		Export:	Wrap Cell Content:
	first_name	last_name	order_id	order_date				
▶	Valerie	Watkins	1025	2024-12-18				
	Valerie	Watkins	1038	2024-11-10				
	Valerie	Watkins	1041	2024-11-25				
	Brianna	Powell	NULL	NULL				
	Richard	Baker	1013	2024-09-18				
	Richard	Baker	1047	2024-06-03				
	Shelby	Morrison	1014	2024-06-20				
	Kathryn	Hart	1008	2024-06-02				
	Kathryn	Hart	1026	2024-10-10				
	Colleen	Clark	1037	2025-03-27				
	Jamie	Walker	NULL	NULL				
	Michael	Stone	1009	2025-04-20				
	Michael	Stone	1031	2025-04-06				
	Chelsea	Miller	1030	2025-01-20				
	Chelsea	Miller	1039	2024-07-18				
	Jennifer	Bailey	NULL	NULL				
	Gavin	Allen	1048	2024-07-25				
	Michael	Powell	NULL	NULL				
	Gerald	Lopez	1022	2024-05-28				


```

28  |-- List all orders and the products (JOIN through order_items)
29  •  SELECT o.order_id, p.product_name, oi.quantity
30      FROM orders o
31      INNER JOIN order_items oi ON o.order_id = oi.order_id
32      INNER JOIN products p ON oi.product_id = p.product_id;
33

```

Result Grid



Filter Rows:

Export:



Wrap Cell Content:



	order_id	product_name	quantity
▶	1023	Laptop	4
	1008	Laptop	2
	1002	Laptop	2
	1007	Laptop	2
	1050	Laptop	3
	1001	Laptop	5
	1024	Laptop	1
	1050	Smartphone	3
	1041	Smartphone	5
	1024	Headphones	1
	1010	Headphones	3
	1017	Headphones	5
	1050	Headphones	5
	1045	Headphones	5
	1024	Tablet	4
	1031	Tablet	4
	1043	Camera	4
	1001	Camera	4
	1022	Camera	2

```

35     # Subqueries
36     -- Find customers who have placed orders above $2000
37 •   SELECT first_name, last_name
38     FROM customers
39     WHERE customer_id IN (
40         SELECT customer_id
41         FROM orders
42         WHERE order_total > 2000
43     );

```

Result Grid



Filter Rows:

Export:





Wrap Cell Content:



	first_name	last_name
►	Brandon	Fowler
	Michael	Price
	Brenda	Brock
	Kathryn	Hart
	Michael	Stone
	Peter	Brown
	Martin	Rodriguez
	Richard	Baker
	Shelby	Morrison
	Dalton	Bass
	Sarah	Thompson
	Michael	Dunlap
	Gerald	Lopez
	Kelly	Banks
	Juan	Patterson

```
46
47 # Aggregate Functions (SUM, AVG)
48 -- Calculate total revenue from all orders
49 • SELECT SUM(order_total) AS total_revenue
50 FROM orders;
51
```

Result Grid |   Filter Rows: | Export:  | Wrap Cell Content: 

	total_revenue
▶	116612.34


```
52
53      -- Find the average price of all products
54 •    SELECT AVG(price) AS average_price
55      FROM products;
56
57
```

Result Grid



Filter Rows:

Export:



Wrap Cell Content:



	average_price
▶	1047.248500