```
1    -- Bike_Store_Sales_And_Inventory_Analysis_2
2
3    -- Project Overview
4    -- This project focuses strictly on relational logic using JOINs and aggregation functions.
5    -- Subqueries and CTEs are intentionally excluded to strengthen core SQL fundamentals.
6
7    -- Problem Statement:
8    -- Analyze store performance and inventory levels for a bicycle retail chain.
9
```

Automatic context help is
disabled. Use the toolbar t
manually get help for the
current caret position or t
toggle automatic help.

```
10
11   -- Create the Database
12 • CREATE DATABASE BikeStoreProject_2;
13
```
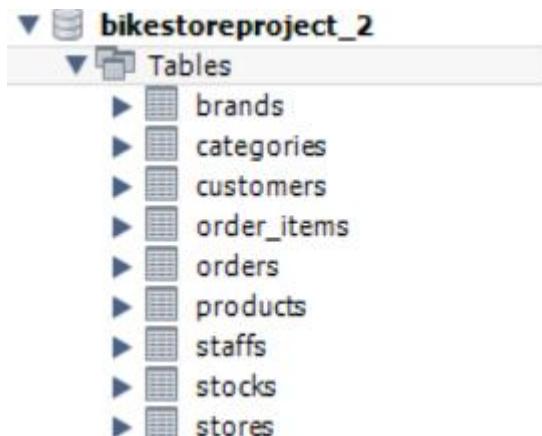
Context Help   Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓	1 07:34:12	CREATE DATABASE BikeStoreProject_2	1 row(s) affected	0.078 sec

Context Help   Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓	1 07:34:12	CREATE DATABASE BikeStoreProject_2	1 row(s) affected	0.078 sec
✓	2 07:35:38	USE BikeStoreProject_2	0 row(s) affected	0.015 sec
✓	3 07:38:03	SHOW SESSION VARIABLES LIKE 'lower_case_table_names'	OK	0.000 sec
✓	4 07:38:03	SHOW DATABASES	OK	0.000 sec
✓	5 07:38:16	SHOW SESSION VARIABLES LIKE 'lower_case_table_names'	OK	0.000 sec
✓	6 07:38:16	SHOW TABLES FROM 'bikestoreproject_2' like 'brands'	OK	0.000 sec
✓	7 07:38:38	CREATE TABLE 'bikestoreproject_2'.'brands' ('brand_id' int, 'brand_name' text)	OK	0.000 sec
✓	8 07:38:38	PREPARE stmt FROM 'INSERT INTO 'bikestoreproject_2'.'brands' ('brand_id','brand_name') VALUES(?,?)'	OK	0.000 sec
✓	9 07:38:38	DEALLOCATE PREPARE stmt	OK	0.000 sec

```
--
19   -- imported table shoe any one
20 • SELECT * FROM customers;
```

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

customer_id	first_name	last_name	phone	email	street	city	state	zip_code
1	Debra	Burks	NULL	debra.burks@yahoo.com	9273 Thorne Ave.	Orchard Park	NY	14127
2	Kasha	Todd	NULL	kasha.todd@yahoo.com	910 Vine Street	Campbell	CA	95008
3	Tameka	Fisher	NULL	tameka.fisher@aol.com	769C Honey Creek St.	Redondo Beach	CA	90278
4	Daryl	Spence	NULL	daryl.spence@aol.com	988 Pearl Lane	Uniondale	NY	11553
5	Charlotte	Rice	(916) 381-6003	charlotte.rice@msn.com	107 River Dr.	Sacramento	CA	95820
6	Lyndsey	Bean	NULL	lyndsey.bean@hotmail.com	769 West Road	Fairport	NY	14450

customers 1 ×

Read Only   Context Help   Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓	65 07:48:04	DEALLOCATE PREPARE stmt	OK	0.000 sec
✓	66 07:51:17	SELECT * FROM customers LIMIT 0, 1000	1000 row(s) returned	0.000 sec / 0.000 sec

▼ 🗄 **bikestoreproject_2**
  ▼ 🗂 Tables
    ▶ ▦ brands
    ▶ ▦ categories
    ▶ ▦ customers
    ▶ ▦ order_items
    ▶ ▦ orders
    ▶ ▦ products
    ▶ ▦ staffs
    ▶ ▦ stocks
    ▶ ▦ stores

```sql
22
23    -- 1. Store Performance - Total revenue generated by each store.
24  • SELECT
25        s.store_name,
26        SUM(i.quantity * i.list_price *(1 - i.discount)) AS total_revenue
27    FROM order_items AS i
28    JOIN orders AS o
29    ON i.order_id = o.order_id
30    JOIN stores AS s
31    ON s.store_id = o.store_id
32    GROUP BY s.store_name
33    ORDER BY total_revenue DESC;
```

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

store_name	total_revenue
Baldwin Bikes	5215751.277499983
Santa Cruz Bikes	1605823.0364999974
Rowlett Bikes	867542.2436000014

Result 2 ×   Read Only   Context Help   Snippets

Output

Action Output ▼

#	Time	Action	Message	Duration / Fetch
✓	66 07:51:17	SELECT * FROM customers LIMIT 0, 1000	1000 row(s) returned	0.000 sec / 0.000 sec
✓	67 08:10:40	SELECT s.store_name, SUM(i.quantity * i.list_price *(1 - i.discount)) AS total_revenue FROM order_items AS ...	3 row(s) returned	0.015 sec / 0.000 sec

---

```sql
56
57    -- 2. Product Popularity - Top 5 most sold products by quantity.
58  • SELECT
59        p.product_name ,
60        i.quantity,
61        o.order_status
62    FROM products AS p
63    JOIN order_items AS i
64    ON p.product_id = i.product_id
65    JOIN orders AS O
66    ON o.order_id = i.order_id
67    ORDER BY i.quantity DESC
68    LIMIT 5;
69
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: 𝖠 | Fetch rows:

product_name	quantity	order_status
Sun Bicycles Cruz 3 - Women's - 2017	2	4
Electra Heartchya 1 (20-inch) - Girl's - 2018	2	4
Trek Domane ALR Frameset - 2018	2	3
Sun Bicycles Drifter 7 - 2017	2	4
Electra Delivery 3i - 2016/2017/2018	2	1

Result 13 ×   Read Only   Context Help   Snippets

Output

Action Output ▼

#	Time	Action	Message	Duration / Fetch
✓	79 08:58:07	SELECT p.product_name , i.quantity, o.order_status FROM products AS p JOIN order_items AS i ON p.prod...	1000 row(s) returned	0.156 sec / 0.047 sec
✓	80 08:59:12	SELECT p.product_name , i.quantity, o.order_status FROM products AS p JOIN order_items AS i ON p.prod...	5 row(s) returned	0.156 sec / 0.000 sec

---

```sql
70
71    -- 3. Customer Location - Customers who placed orders with store names.
72  • SELECT
73        c.first_name,
74        c.last_name,
75        o.order_id,
76        s.store_name
77    FROM customers AS C
78    JOIN orders AS o
79    ON o.customer_id = c.customer_id
80    JOIN stores AS s
81    ON s.store_id = o.store_id;
82
83
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: 𝖠 | Fetch rows:

first_name	last_name	order_id	store_name
Debra	Burks	1613	Baldwin Bikes
Debra	Burks	1555	Baldwin Bikes
Debra	Burks	599	Baldwin Bikes
Kasha	Todd	1509	Santa Cruz Bikes
Kasha	Todd	1084	Santa Cruz Bikes

Result 14 ×   Read Only   Context Help   Snippets

Output

Action Output ▼

#	Time	Action	Message	Duration / Fetch
✓	80 08:59:12	SELECT p.product_name , i.quantity, o.order_status FROM products AS p JOIN order_items AS i ON p.prod...	5 row(s) returned	0.156 sec / 0.000 sec
✓	81 09:12:45	SELECT c.first_name, c.last_name, o.order_id, s.store_name FROM customers AS C JOIN orders AS o ON ...	1000 row(s) returned	0.000 sec / 0.000 sec

```sql
85
86     -- 4. Brand Insights - Total number of products per brand.
87  •  SELECT
88         b.brand_name,
89         COUNT(p.product_name) AS total_number_of_product_per_brand
90     FROM products AS p
91         JOIN brands AS b
92         ON b.brand_id = p.brand_id
93     GROUP BY b.brand_name
94     ORDER BY total_number_of_product_per_brand DESC;
95
```

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

brand_name	total_number_of_product_per_brand
Trek	135
Electra	118
Surly	25
Sun Bicycles	23
Haro	10

Result 18

Read Only   Context Help   Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓	86 09:34:59	SELECT b.brand_name, COUNT(p.product_name) AS total_number_of_product_per_brand FROM products...	9 row(s) returned	0.000 sec / 0.000 sec
✓	87 09:35:18	SELECT b.brand_name, COUNT(p.product_name) AS total_number_of_product_per_brand FROM products...	9 row(s) returned	0.000 sec / 0.000 sec

```sql
96
97     -- 5. Low Stock Alert - Products with zero quantity in stock.
98  •  SELECT
99         p.product_name,
100        s.quantity
101    FROM products AS p
102        JOIN stocks AS s
103        ON p.product_id = s.product_id
104    WHERE s.quantity = 0 OR NULL;
```

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

product_name	quantity
Surly Wednesday Frameset - 2016	0
Surly Ice Cream Truck Frameset - 2016	0
Trek Remedy 29 Carbon Frameset - 2016	0
Electra Girl's Hawaii 1 (16-inch) - 2015/2016	0
Trek Farley Alloy Frameset - 2017	0

Result 19

Read Only   Context Help   Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓	87 09:35:18	SELECT b.brand_name, COUNT(p.product_name) AS total_number_of_product_per_brand FROM products...	9 row(s) returned	0.000 sec / 0.000 sec
✓	88 09:44:45	SELECT p.product_name, s.quantity FROM products AS p JOIN stocks AS s ON p.product_id = s.product_i...	25 row(s) returned	0.031 sec / 0.000 sec