Top 10 Most Sold Products

SELECT p.name, SUM(oi.quantity) AS total_sold

FROM order_items oi

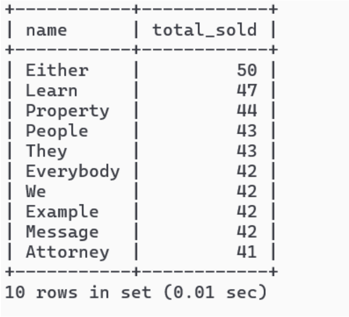
JOIN products p ON oi.product_id = p.id

GROUP BY p.id

ORDER BY total_sold DESC

LIMIT 10;

Output:



```
+-----------+------------+
| name      | total_sold |
+-----------+------------+
| Either    |         50 |
| Learn     |         47 |
| Property  |         44 |
| People    |         43 |
| They      |         43 |
| Everybody |         42 |
| We        |         42 |
| Example   |         42 |
| Message   |         42 |
| Attorney  |         41 |
+-----------+------------+
10 rows in set (0.01 sec)
```

Top Spending Users

SELECT u.name, SUM(o.total) AS total_spent

FROM users u

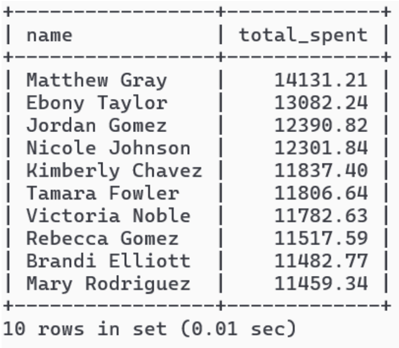
JOIN orders o ON u.id = o.user_id

GROUP BY u.id

ORDER BY total_spent DESC

LIMIT 10;

Output:



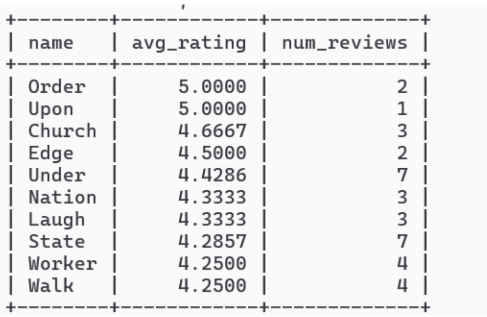
```
+-----------------+-------------+
| name            | total_spent |
+-----------------+-------------+
| Matthew Gray    |    14131.21 |
| Ebony Taylor    |    13082.24 |
| Jordan Gomez    |    12390.82 |
| Nicole Johnson  |    12301.84 |
| Kimberly Chavez |    11837.40 |
| Tamara Fowler   |    11806.64 |
| Victoria Noble  |    11782.63 |
| Rebecca Gomez   |    11517.59 |
| Brandi Elliott  |    11482.77 |
| Mary Rodriguez  |    11459.34 |
+-----------------+-------------+
10 rows in set (0.01 sec)
```

Product Ratings Summary

SELECT p.name, AVG(r.rating) AS avg_rating, COUNT(r.id) AS num_reviews

```
FROM reviews r

JOIN products p ON r.product_id = p.id

GROUP BY p.id

ORDER BY avg_rating DESC

LIMIT 10;
```

Output:

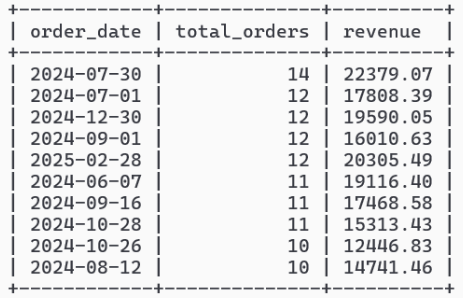


```
+--------+------------+-------------+
| name   | avg_rating | num_reviews |
+--------+------------+-------------+
| Order  |     5.0000 |           2 |
| Upon   |     5.0000 |           1 |
| Church |     4.6667 |           3 |
| Edge   |     4.5000 |           2 |
| Under  |     4.4286 |           7 |
| Nation |     4.3333 |           3 |
| Laugh  |     4.3333 |           3 |
| State  |     4.2857 |           7 |
| Worker |     4.2500 |           4 |
| Walk   |     4.2500 |           4 |
+--------+------------+-------------+
```

Busiest Days (Most Orders Per Day)

```
SELECT

    order_date,

    COUNT(*) AS total_orders,

    SUM(total) AS revenue

FROM orders

GROUP BY order_date

ORDER BY total_orders DESC

LIMIT 10;
```

Output:

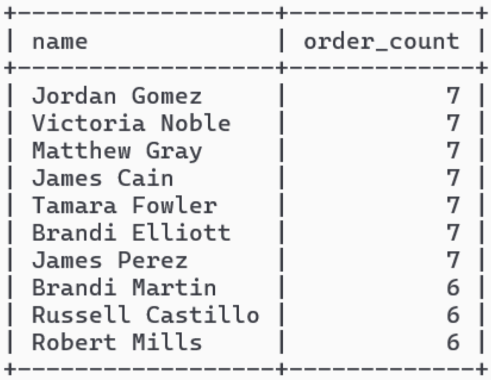


```
+------------+--------------+----------+
| order_date | total_orders | revenue  |
+------------+--------------+----------+
| 2024-07-30 |           14 | 22379.07 |
| 2024-07-01 |           12 | 17808.39 |
| 2024-12-30 |           12 | 19590.05 |
| 2024-09-01 |           12 | 16010.63 |
| 2025-02-28 |           12 | 20305.49 |
| 2024-06-07 |           11 | 19116.40 |
| 2024-09-16 |           11 | 17468.58 |
| 2024-10-28 |           11 | 15313.43 |
| 2024-10-26 |           10 | 12446.83 |
| 2024-08-12 |           10 | 14741.46 |
+------------+--------------+----------+
```

Most active Coustomers:

```
SELECT

    u.name,
    COUNT(o.id) AS order_count
FROM users u
JOIN orders o ON u.id = o.user_id
GROUP BY u.id
ORDER BY order_count DESC
LIMIT 10;
```

Output:

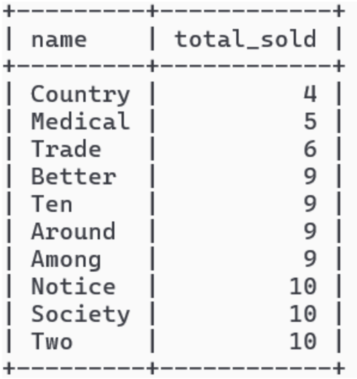


```
+------------------+-------------+
| name             | order_count |
+------------------+-------------+
| Jordan Gomez     |           7 |
| Victoria Noble   |           7 |
| Matthew Gray     |           7 |
| James Cain       |           7 |
| Tamara Fowler    |           7 |
| Brandi Elliott   |           7 |
| James Perez      |           7 |
| Brandi Martin    |           6 |
| Russell Castillo |           6 |
| Robert Mills     |           6 |
+------------------+-------------+
```

Products with Low Sales Volume

```
SELECT
    p.name,
    COALESCE(SUM(oi.quantity), 0) AS total_sold
FROM products p
LEFT JOIN order_items oi ON p.id = oi.product_id
GROUP BY p.id
ORDER BY total_sold ASC
LIMIT 10;
```

Output:

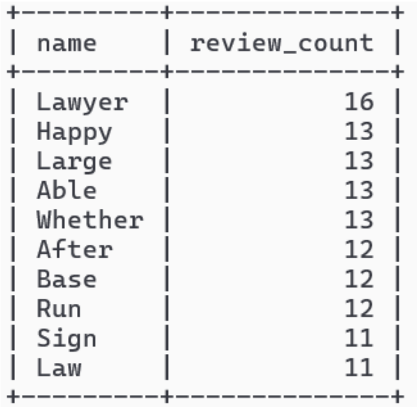


```
+---------+------------+
| name    | total_sold |
+---------+------------+
| Country |          4 |
| Medical |          5 |
| Trade   |          6 |
| Better  |          9 |
| Ten     |          9 |
| Around  |          9 |
| Among   |          9 |
| Notice  |         10 |
| Society |         10 |
| Two     |         10 |
+---------+------------+
```

Products with the Most Reviews

```
SELECT
   p.name,
   COUNT(r.id) AS review_count
FROM reviews r
JOIN products p ON r.product_id = p.id
GROUP BY p.id
ORDER BY review_count DESC
LIMIT 10;
```

Output:

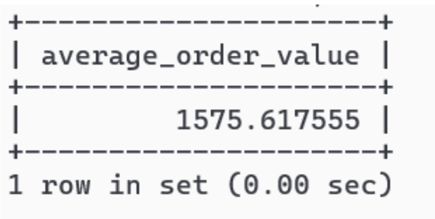


```
+---------+--------------+
| name    | review_count |
+---------+--------------+
| Lawyer  |           16 |
| Happy   |           13 |
| Large   |           13 |
| Able    |           13 |
| Whether |           13 |
| After   |           12 |
| Base    |           12 |
| Run     |           12 |
| Sign    |           11 |
| Law     |           11 |
+---------+--------------+
```

Average Order Value

```
SELECT
   AVG(total) AS average_order_value
FROM orders;
```

Output:

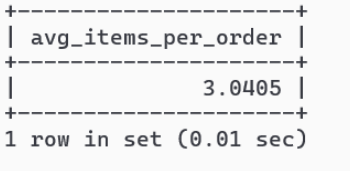


```
+---------------------+
| average_order_value |
+---------------------+
|         1575.617555 |
+---------------------+
1 row in set (0.00 sec)
```

Average Items per Order

```
SELECT
   AVG(item_count) AS avg_items_per_order
FROM (
   SELECT order_id, COUNT(*) AS item_count
   FROM order_items
   GROUP BY order_id
) AS order_counts;
```

Output:

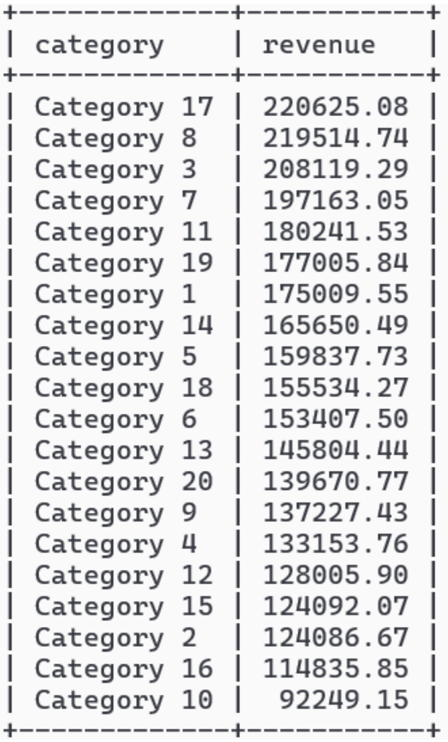


```
+---------------------+
| avg_items_per_order |
+---------------------+
|              3.0405 |
+---------------------+
1 row in set (0.01 sec)
```

Revenue by Category

```
SELECT
    c.name AS category,
    SUM(oi.quantity * oi.price) AS revenue
FROM order_items oi
JOIN products p ON oi.product_id = p.id
JOIN categories c ON p.category_id = c.id
GROUP BY c.id
ORDER BY revenue DESC;
```

Output:

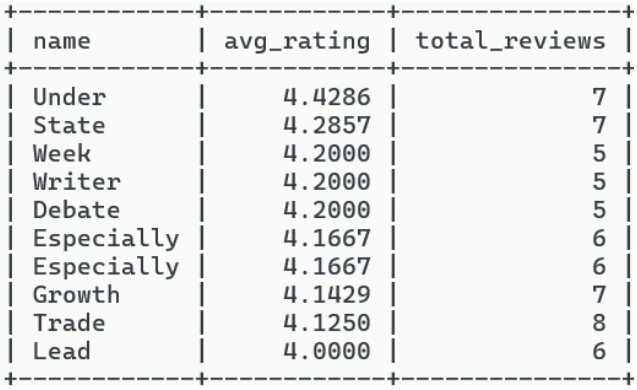


```
+-------------+-----------+
| category    | revenue   |
+-------------+-----------+
| Category 17 | 220625.08 |
| Category 8  | 219514.74 |
| Category 3  | 208119.29 |
| Category 7  | 197163.05 |
| Category 11 | 180241.53 |
| Category 19 | 177005.84 |
| Category 1  | 175009.55 |
| Category 14 | 165650.49 |
| Category 5  | 159837.73 |
| Category 18 | 155534.27 |
| Category 6  | 153407.50 |
| Category 13 | 145804.44 |
| Category 20 | 139670.77 |
| Category 9  | 137227.43 |
| Category 4  | 133153.76 |
| Category 12 | 128005.90 |
| Category 15 | 124092.07 |
| Category 2  | 124086.67 |
| Category 16 | 114835.85 |
| Category 10 |  92249.15 |
+-------------+-----------+
```

Best Rated Products

```
SELECT
   p.name,
   AVG(r.rating) AS avg_rating,
   COUNT(r.id) AS total_reviews
FROM reviews r
JOIN products p ON r.product_id = p.id
GROUP BY p.id
HAVING total_reviews >= 5
ORDER BY avg_rating DESC
LIMIT 10;
```

Output:

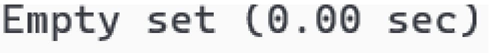


```
+------------+------------+---------------+
| name       | avg_rating | total_reviews |
+------------+------------+---------------+
| Under      |     4.4286 |             7 |
| State      |     4.2857 |             7 |
| Week       |     4.2000 |             5 |
| Writer     |     4.2000 |             5 |
| Debate     |     4.2000 |             5 |
| Especially |     4.1667 |             6 |
| Especially |     4.1667 |             6 |
| Growth     |     4.1429 |             7 |
| Trade      |     4.1250 |             8 |
| Lead       |     4.0000 |             6 |
+------------+------------+---------------+
```

Unreviewed Products

```
SELECT
   p.name
FROM products p
LEFT JOIN reviews r ON p.id = r.product_id
WHERE r.id IS NULL;
```

Output:S



```
Empty set (0.00 sec)
```

That means all products were having reviews. Even atleast 1.