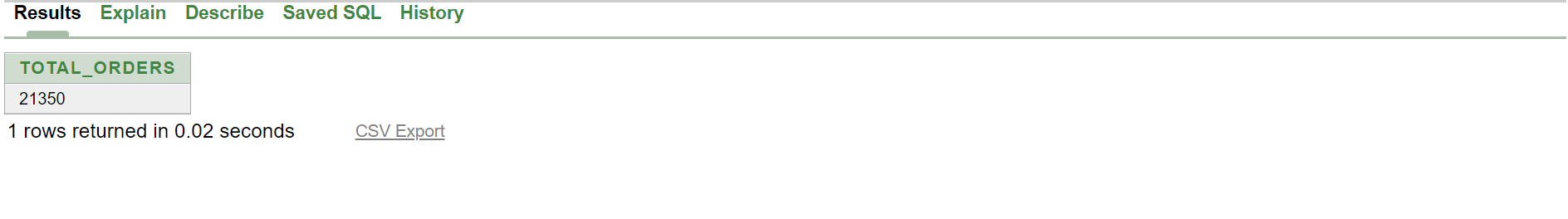
**--Q1: The total number of order place**

**SELECT COUNT(order\_id) AS total\_orders**

**FROM orders;**

****

**-- Q2: The total revenue generated from pizza sales**

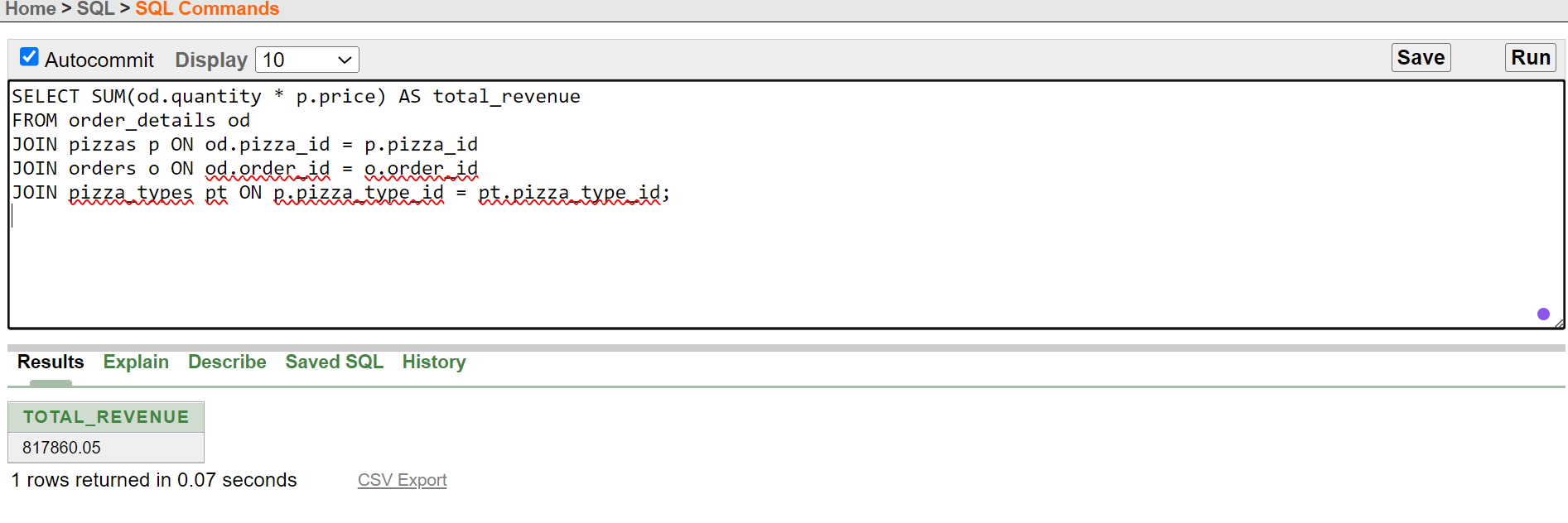
**SELECT SUM(od.quantity \* p.price) AS total\_revenue**

**FROM order\_details od**

**JOIN pizzas p ON od.pizza\_id = p.pizza\_id**

**JOIN orders o ON od.order\_id = o.order\_id**

**JOIN pizza\_types pt ON p.pizza\_type\_id = pt.pizza\_type\_id;**

****

**-- Q3: The highest priced pizza.**

**SELECT pizza\_id, price**

**FROM (**

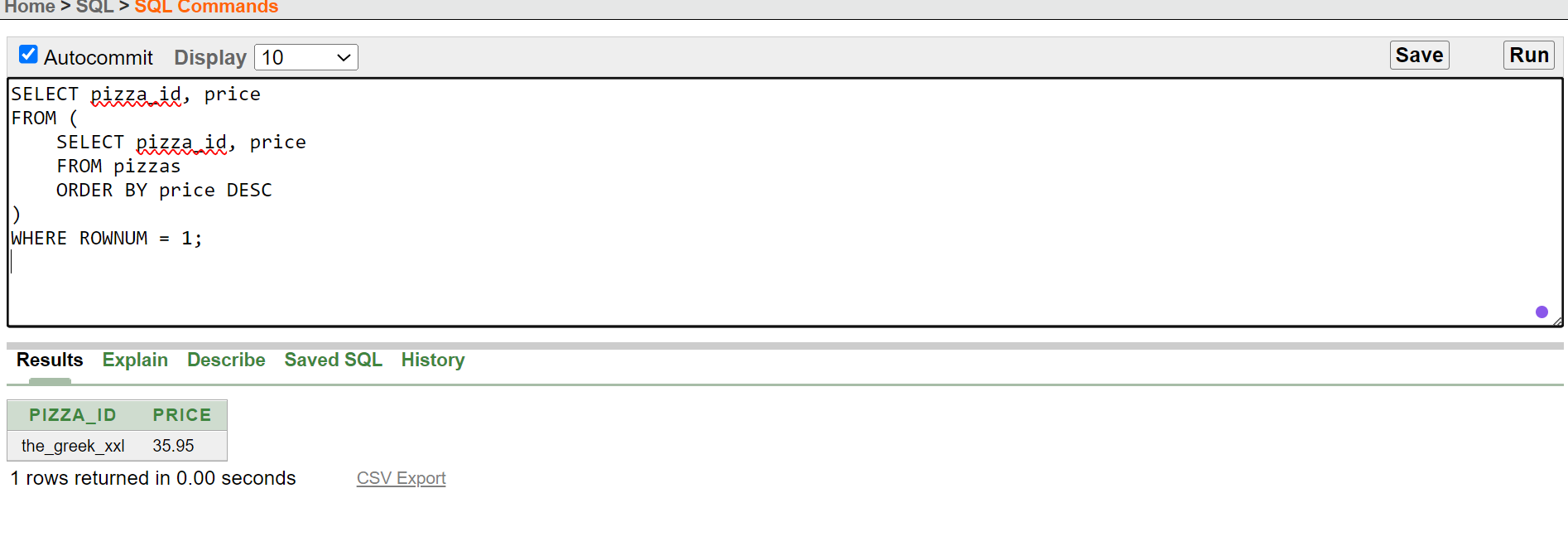
**SELECT pizza\_id, price**

**FROM pizzas**

**ORDER BY price DESC**

**)**

**WHERE ROWNUM = 1;**

****

**-- Q4: The most common pizza size ordered.**

**SELECT order\_size, order\_count FROM (**

**SELECT p.order\_size, COUNT(od.pizza\_id) AS order\_count**

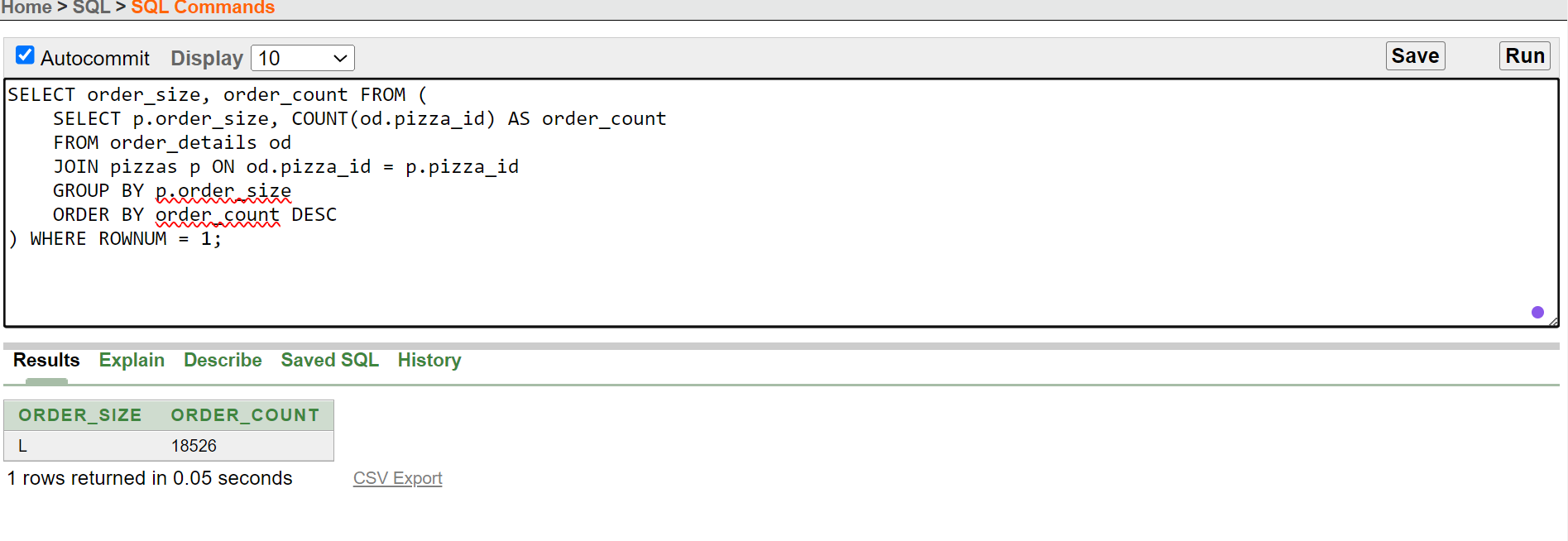
**FROM order\_details od**

**JOIN pizzas p ON od.pizza\_id = p.pizza\_id**

**GROUP BY p.order\_size**

**ORDER BY order\_count DESC**

**) WHERE ROWNUM = 1;**

****

**-- Q5: The top 5 most ordered pizza types along their quantities.**

**pizzas p**

**SELECT category, order\_count**

**FROM (**

**SELECT pt.category, COUNT(od.pizza\_id) AS order\_count**

**FROM order\_details od**

**JOIN pizzas p ON od.pizza\_id = p.pizza\_id**

**JOIN pizza\_types pt ON p.pizza\_type\_id = pt.pizza\_type\_id**

**GROUP BY pt.category**

**ORDER BY order\_count DESC**

**) sub**

**WHERE ROWNUM <= 5;**

**A close-up of a computer screen

Description automatically generated**

**-- Q6: The quantity of each pizza categories ordered.**

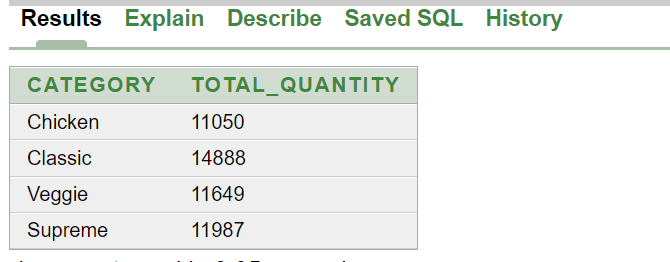
**SELECT pt.category, SUM(od.quantity) AS total\_quantity**

**FROM order\_details od**

**JOIN pizzas p ON od.pizza\_id = p.pizza\_id**

**JOIN pizza\_types pt ON p.pizza\_type\_id = pt.pizza\_type\_id**

**GROUP BY pt.category;**

****

**-- Q7: The distribution of orders by hours of the day.**

**SELECT TO\_CHAR(order\_date, 'HH24') AS hour\_of\_day, COUNT(\*) AS order\_count**

**FROM orders**

**GROUP BY TO\_CHAR(order\_date, 'HH24')**

**ORDER BY hour\_of\_day;**

**A screenshot of a computer

Description automatically generated**

**-- Q8: The category-wise distribution of pizzas.**

**SELECT pt.category, COUNT(p.pizza\_id) AS pizza\_count**

**FROM pizzas p**

**JOIN pizza\_types pt ON p.pizza\_type\_id = pt.pizza\_type\_id**

**GROUP BY pt.category**

**ORDER BY pizza\_count DESC;**

**A screenshot of a computer

Description automatically generated**

**-- Q9: The average number of pizzas ordered per day.**

**SELECT order\_date, SUM(quantity) AS total\_pizzas**

**FROM order\_details od**

**JOIN orders o ON od.order\_id = o.order\_id**

**GROUP BY order\_date;**

**A screenshot of a data

Description automatically generated**

**-- Q10: Top 3 most ordered pizza type base on revenue.**

**SELECT category, total\_revenue**

**FROM (**

**SELECT pt.category, SUM(p.price \* od.quantity) AS total\_revenue**

**FROM order\_details od**

**JOIN pizzas p ON od.pizza\_id = p.pizza\_id**

**JOIN pizza\_types pt ON p.pizza\_type\_id = pt.pizza\_type\_id**

**GROUP BY pt.category**

**ORDER BY total\_revenue DESC**

**)**

**WHERE ROWNUM <= 3;**

**A screenshot of a computer

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**-- Q11: The percentage contribution of each pizza type to revenue.**

**WITH RevenueByType AS (**

**SELECT pt.category,**

**SUM(p.price \* od.quantity) AS total\_revenue**

**FROM order\_details od**

**JOIN pizzas p ON od.pizza\_id = p.pizza\_id**

**JOIN pizza\_types pt ON p.pizza\_type\_id = pt.pizza\_type\_id**

**GROUP BY pt.category**

**),**

**TotalRevenue AS (**

**SELECT SUM(total\_revenue) AS overall\_revenue**

**FROM RevenueByType**

**)**

**SELECT rb.category,**

**rb.total\_revenue,**

**(rb.total\_revenue / tr.overall\_revenue) \* 100 AS percentage\_contribution**

**FROM RevenueByType rb, TotalRevenue tr**

**ORDER BY percentage\_contribution DESC;**

**A screenshot of a data

Description automatically generated**

**-- Q12: The cumulative revenue generated over time.**

**SELECT order\_date,**

**SUM(total\_revenue) OVER (ORDER BY order\_date) AS cumulative\_revenue**

**FROM (**

**SELECT o.order\_date,**

**SUM(od.quantity \* p.price) AS total\_revenue**

**FROM order\_details od**

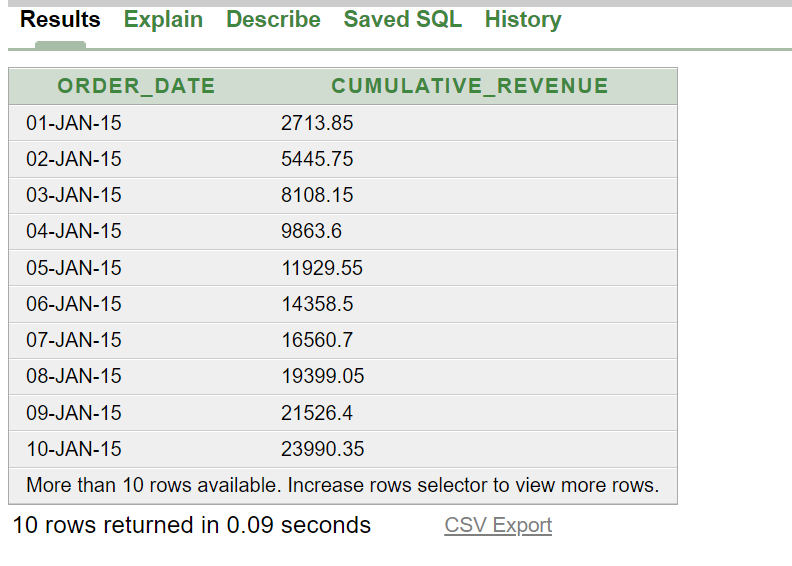
**JOIN pizzas p ON od.pizza\_id = p.pizza\_id**

**JOIN orders o ON od.order\_id = o.order\_id**

**GROUP BY o.order\_date**

**) t**

**ORDER BY order\_date;**

****

**-- Q13: The top 3 most ordered pizza type based on revenue for each pizza category.**

**WITH RevenueByType AS (**

**SELECT pt.category,**

**p.pizza\_id,**

**SUM(p.price \* od.quantity) AS total\_revenue**

**FROM order\_details od**

**JOIN pizzas p ON od.pizza\_id = p.pizza\_id**

**JOIN pizza\_types pt ON p.pizza\_type\_id = pt.pizza\_type\_id**

**GROUP BY pt.category, p.pizza\_id**

**),**

**RankedRevenue AS (**

**SELECT category,**

**pizza\_id,**

**total\_revenue,**

**RANK() OVER (PARTITION BY category ORDER BY total\_revenue DESC) AS rank**

**FROM RevenueByType**

**)**

**SELECT category,**

**pizza\_id,**

**total\_revenue**

**FROM RankedRevenue**

**WHERE rank <= 3**

**ORDER BY category, rank;**

**A screenshot of a computer

Description automatically generated**