**Tune the database configuration settings (e.g., shared buffers, checkpoint settings) to improve query performance, and compare the results before and after the tuning.**

SELECT c.name, COUNT(b.id) AS num\_books, AVG(b.price) AS avg\_price

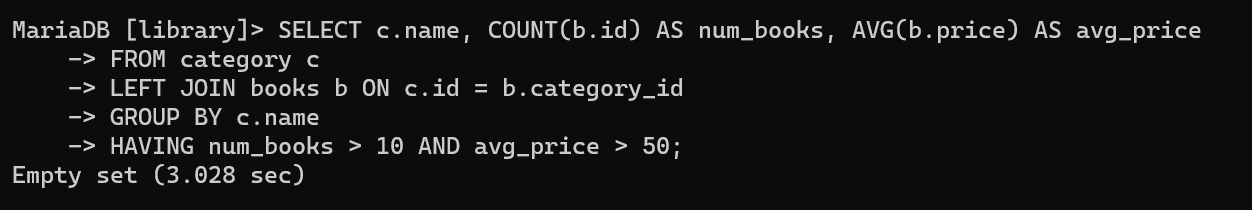
FROM category c

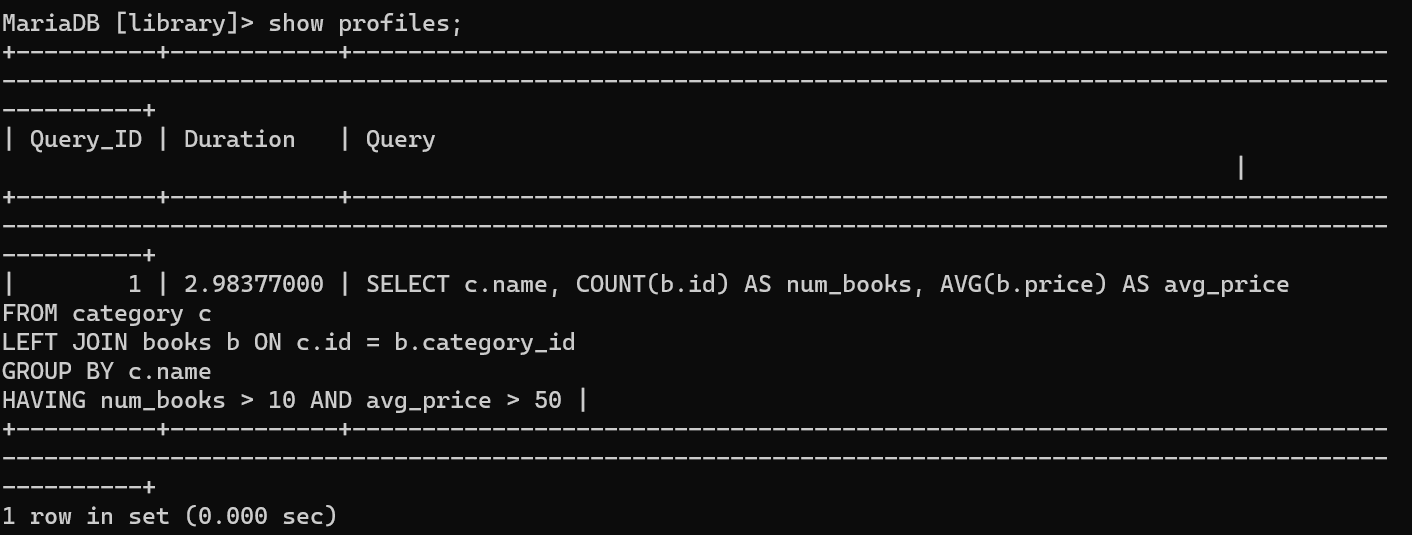
LEFT JOIN books b ON c.id = b.category\_id

GROUP BY c.name

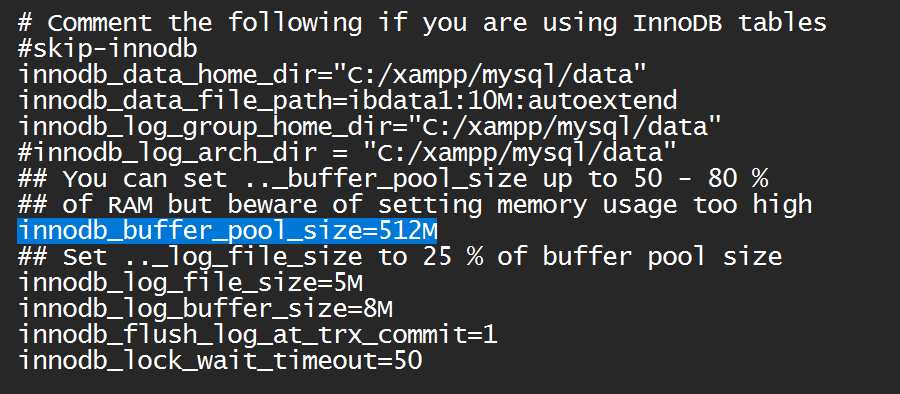
HAVING num\_books > 10 AND avg\_price > 50;

Default settings:

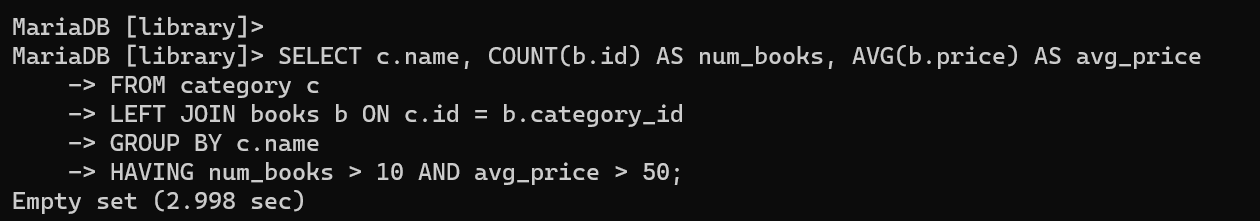




Increasing buffer\_pool\_size to 512M:



Decreases the execution time slightly:



Increasing pool size further reduces execution time:

