

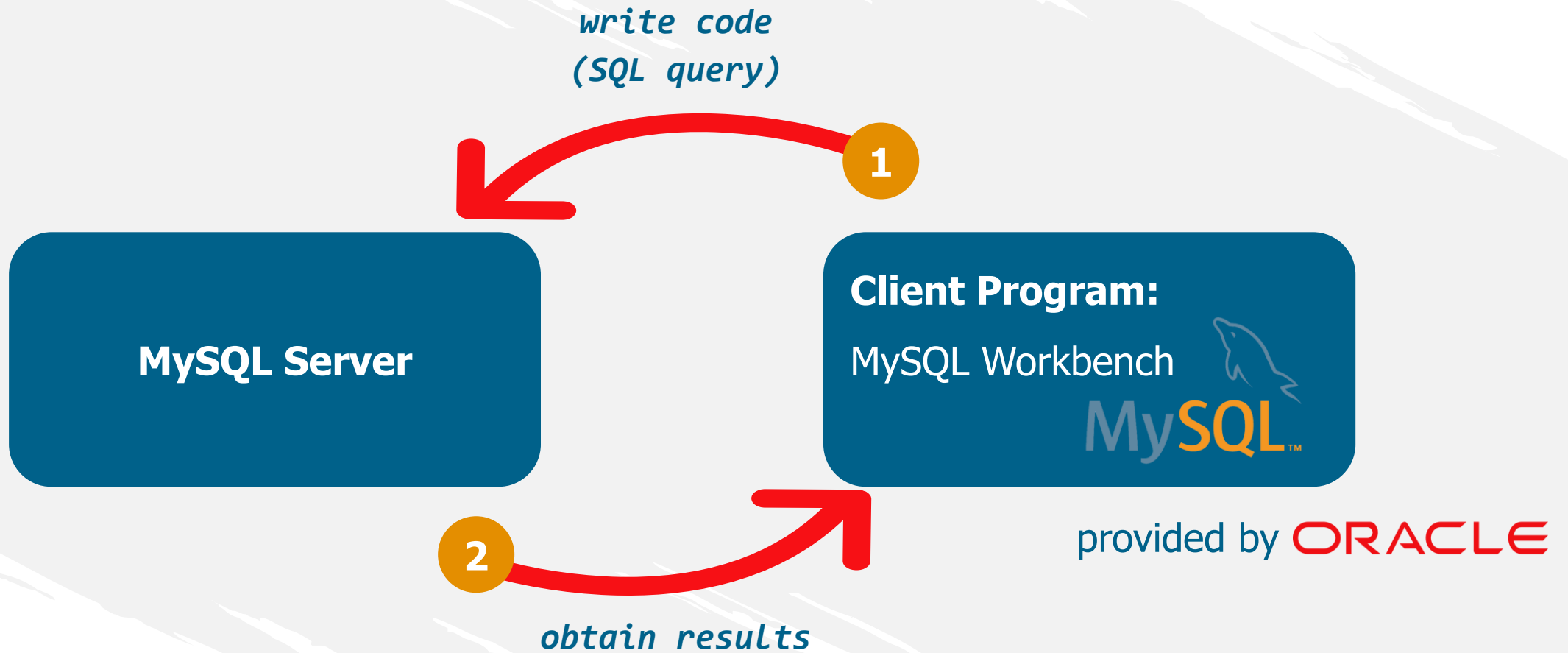
A blue-tinted photograph of a modern conference room. The room features a long, dark conference table surrounded by several ergonomic office chairs. Large windows on the right side of the room offer a view of a cityscape. The text "The Client-Server Model" is overlaid in white, bold font in the center of the image.

The Client-Server Model

The Client-Server Model

This is a visualization that explains which MySQL features we must install and why.

The Client-Server Model



The Client-Server Model

The program we will be working with in this course is called MySQL Workbench. It is the Oracle visual tool for database design, modelling, creation, manipulation, maintenance, and administration. Professionals refer to this type of software as “Integrated Development Environment” or IDE. So, Workbench will be our IDE.

And, if you wonder what *Oracle* is, this is the software company that owns the MySQL version of SQL.

Client Program:

MySQL Workbench



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The Client-Server Model

You could also wonder why we would need a server. Sticking to the basic theory of operation of computer networks, MySQL Workbench acts as a client program - a client of a MySQL Server.

MySQL Server

Client Program:

MySQL Workbench


MySQL™

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The Client-Server Model

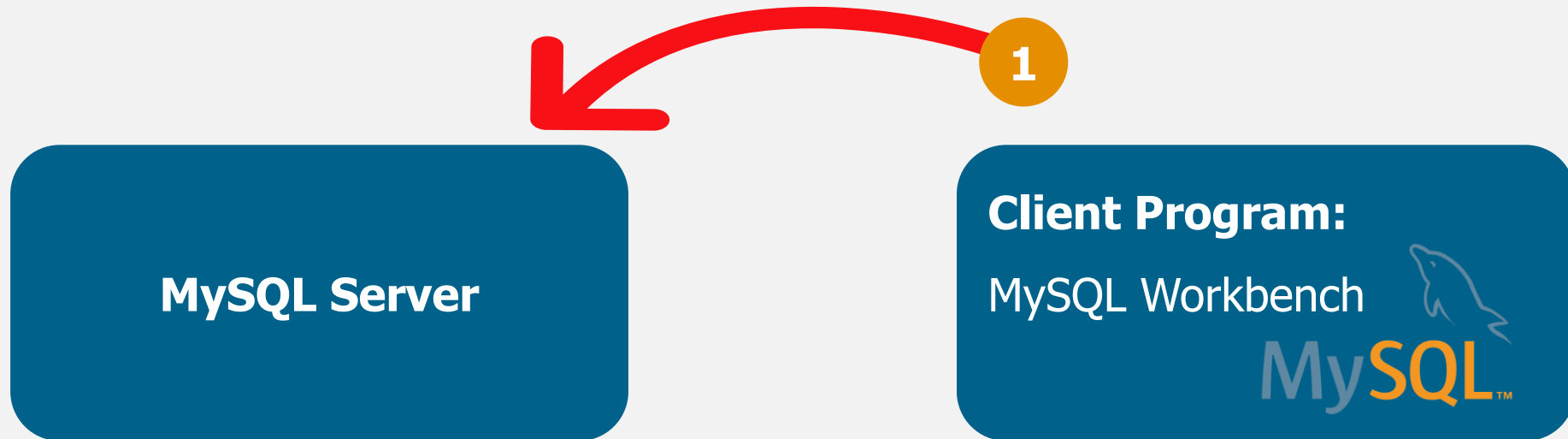
The server is, practically, nothing more than a machine that provides data and services to the same or other computers.



MySQL Server

The data could be provided locally or online. Regardless whether the server is installed locally on your computer or is being accessed remotely over the internet from another computer, you will need a Server to use MySQL. In our case, we installed the server locally.

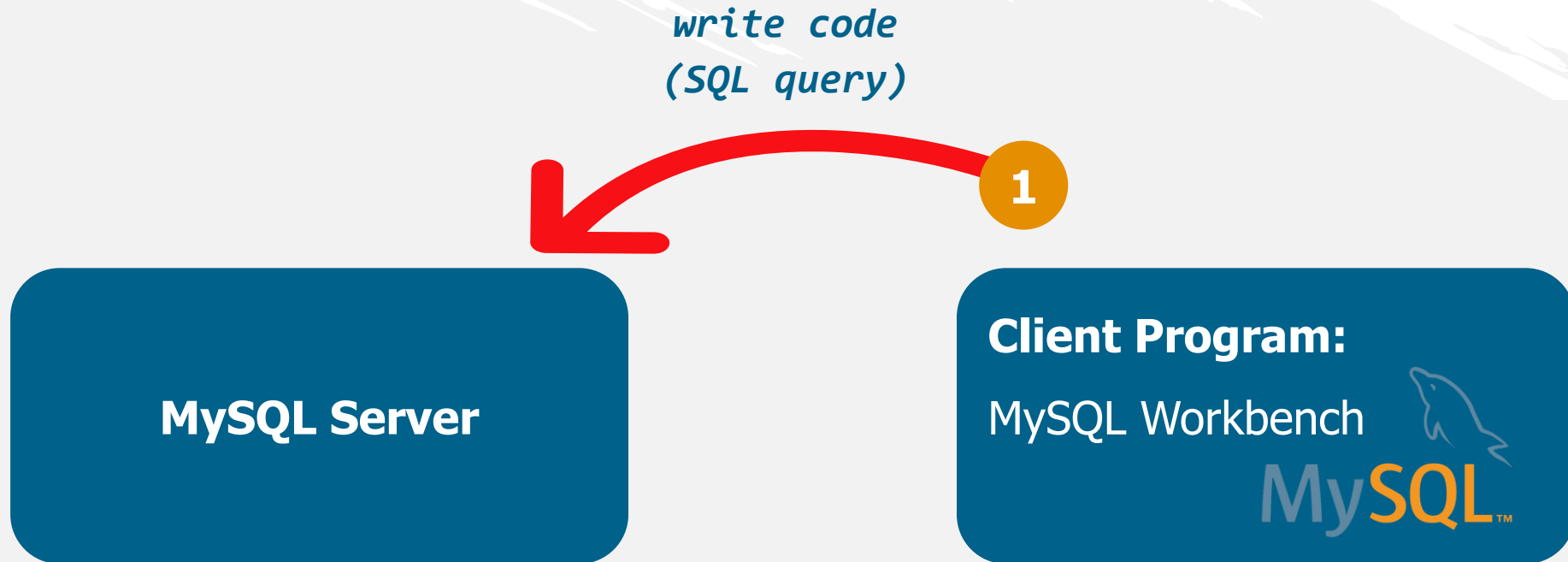
The Client-Server Model



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Briefly, the server will perform all calculations and operations you execute in Workbench. You will be writing queries through the Workbench interface, in the form of raw code, which MySQL server understands and processes.

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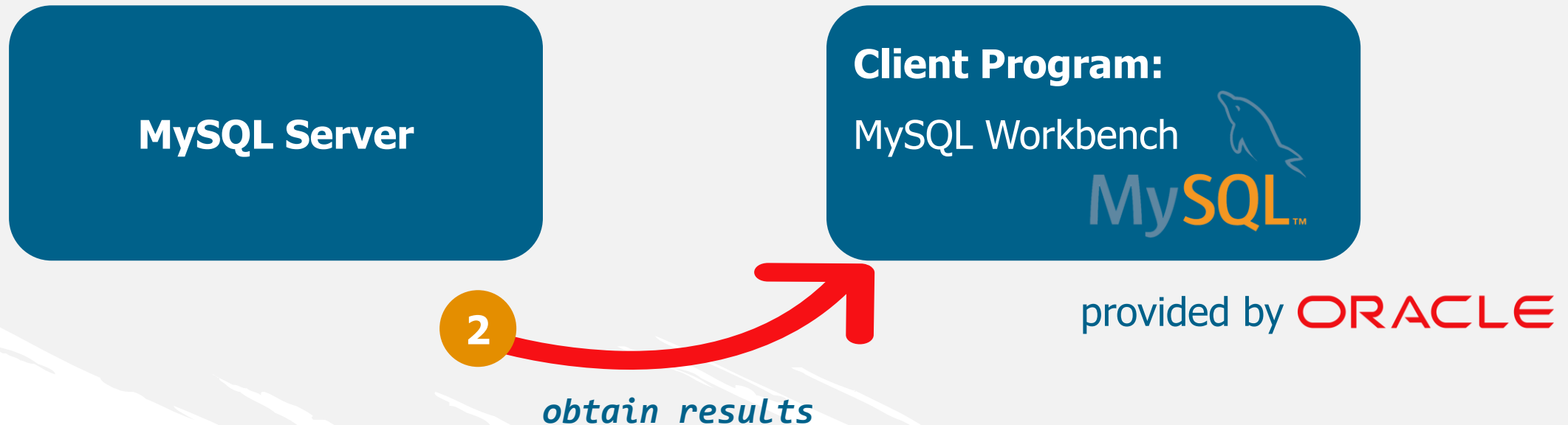
Finally, when it finalizes its calculations, it will bring the respective results back to you in the form of an output displayed on your screen.



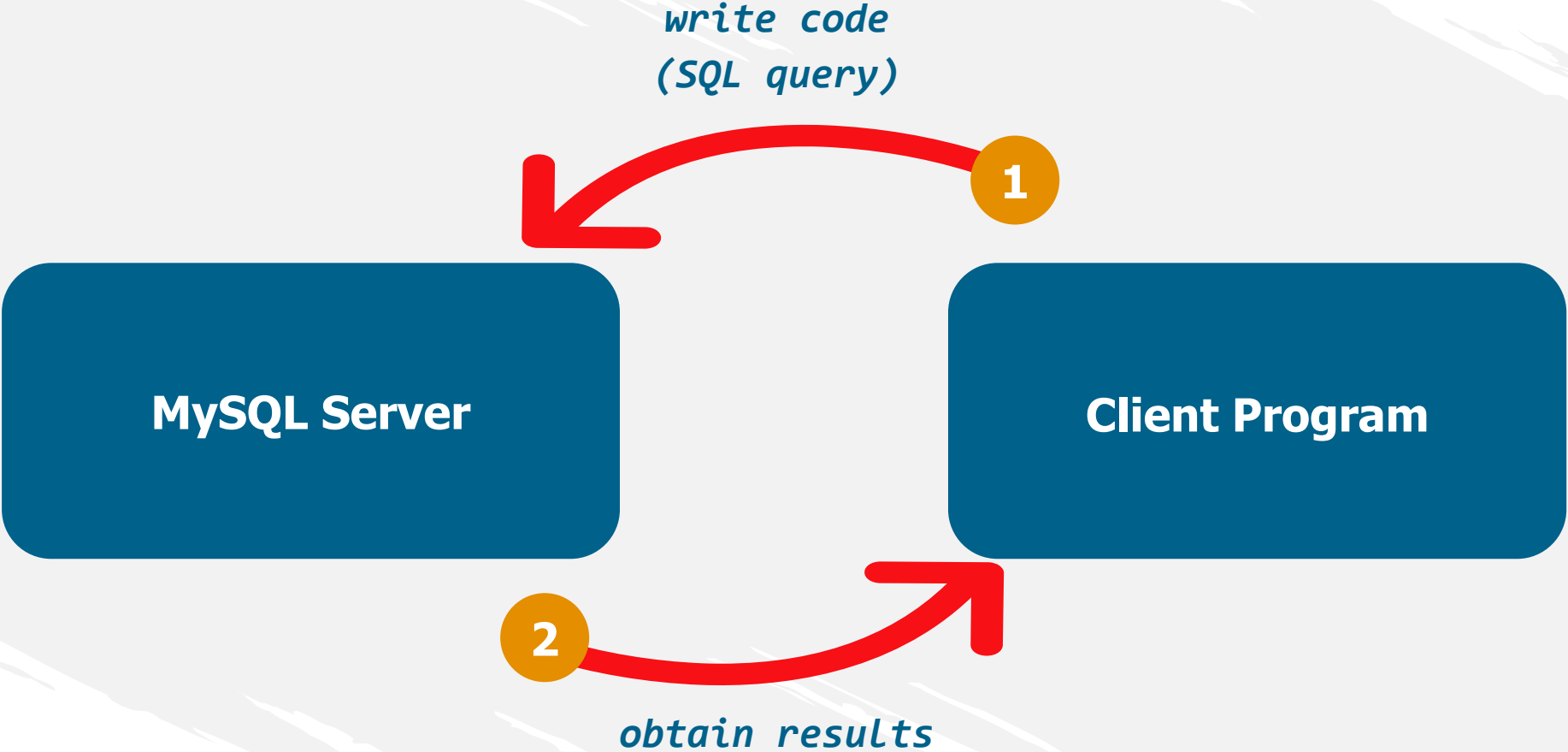
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