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SQL for Data Science

Module 2: Installing and Configuring MySQL

Learning Objectives of this module

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In this module you will learn about some of the basics of web architecture and setting up MySQL

- **Client Server Architecture**
- **MySQL Distributions**
- **Local Installations**
  - **Mac**
  - **Linux**
  - **Windows**
- **Licensing**
- **Accessing a Remote MySQL Server**
- **Graphical User Interfaces**

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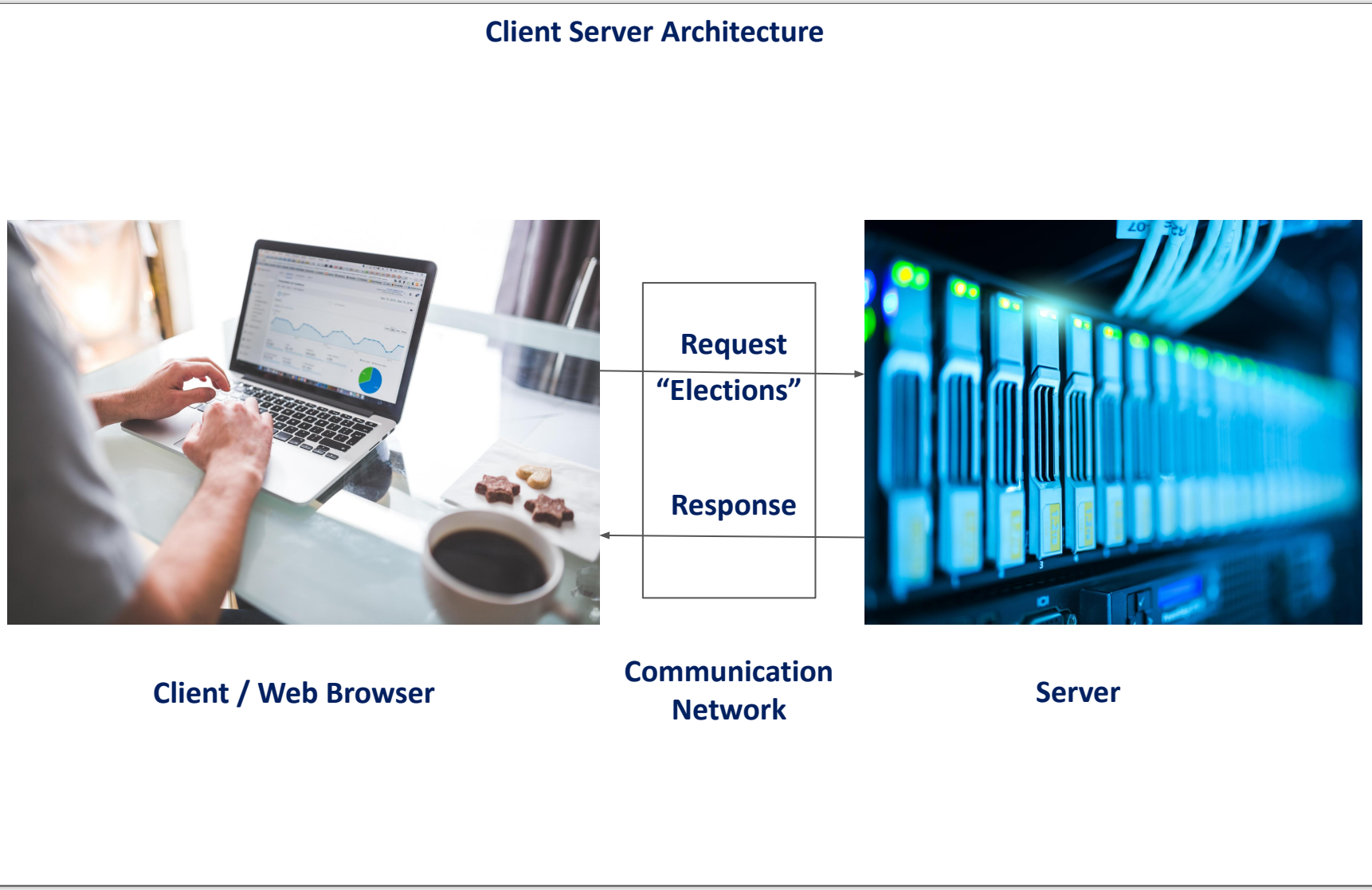
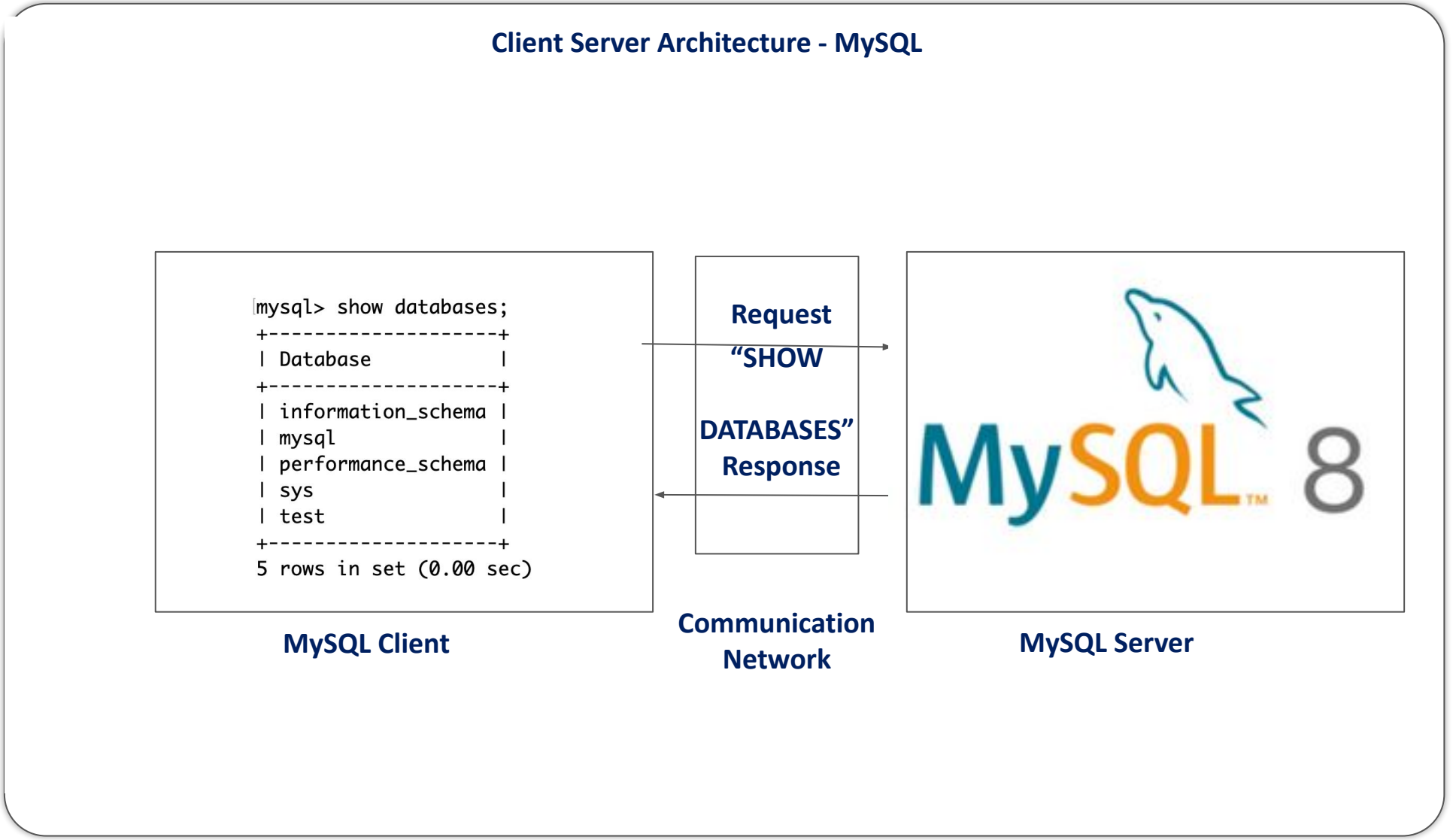
Client Server Architecture

Client asks for a resource and the server provides it



Client Server Architecture - MySQL

MySQL instance runs a server and the client accesses it



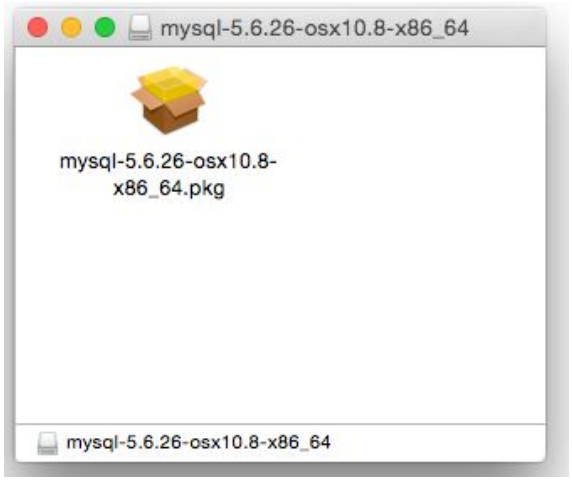
MySQL Distributions

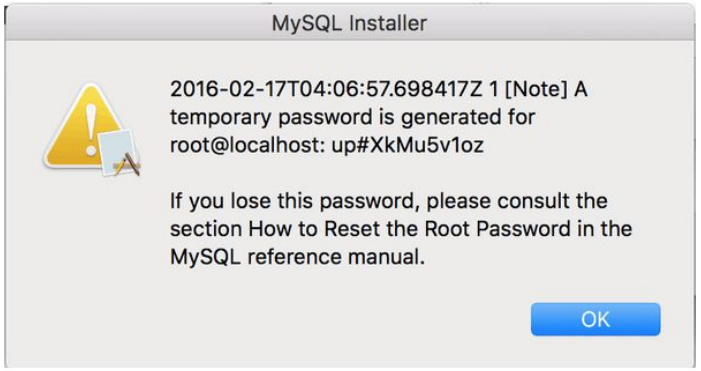
Knowing the distribution of MySQL/ MariaDB is essential in writing the correct queries

Distributions of MySQL/ MariaDB

Local Installations - Mac

https://dev.mysql.com/doc/refman/5.6/en/osx-installation-pkg.html





Local Installations - Windows

https://dev.mysql.com/doc/refman/8.0/en/windows-installation.html

Demo

Demo

Licensing

Note that here we are talking about the licensing of Community Edition. There is also an Enterprise Edition of MySQL which comes with Support

GPL Free Software

Free as in Freedom

Free to use, share and modify

Need to Open Source changes

open source

License for commercial distribution

Accessing a Remote Server

Remote MySQL server can be accessed by using the –h or –host option from command line

Demo

Graphical User Interfaces

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There are many GUI clients for MySQL. Using a GUI is a personal choice and we leave it to you to decide which one you like. We will be using the MySQL shell itself for this course so you understand the concepts well

Free Clients

- MySQL Workbench (Mac, Windows, Linux)
- Sequel Pro (Mac)
- phpMyAdmin (web app)
- Toad for MySQL (Windows)
- Free HeidiSQL (Windows)
- MySQL-Front (Windows)
- Neor Profile SQL (Mac, Windows, Linux)

Commercial Clients with Free Option

- DBVisualizer (Mac, Windows, Linux)
- TablePlus (Mac, Windows)
- dbForge Studio for MySQL (Windows)
- Valentina Studio (Mac, Windows, Linux, iOS)
- SQLPro for MySQL (macOS, iOS)
- SQLyog Community version (Windows)

Commercial Clients

- Navicat DB Admin Tool (Mac, Windows, Linux, iOS)
- Querious (Mac)

Thank you slide

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