

# **COMP 353 - Databases**

**8th Session**

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# Agenda

- PHP
  - Several ways of connecting
  - MySQLi
  - PDO
- Python
  - Several Packages
  - Databases and mysqlclient
- Framework?

# PHP - Several ways of Connecting

There are 3 ways for connecting your PHP application to the database. To begin with, MySQLi which has two versions OO and procedural can be used to connect your PHP application to the database, (this way only supports MySQL). What's more, PDO is used on 12 different database Systems, such as MySQL, PostgreSQL, etc.

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# Python - Several ways of Connecting

In Python, you have dozen packages that make you able to connect your web application (Django, Flask, or FastAPI) to your database.

Here, two of the most common packages will be introduced:

- databases (<https://pypi.org/project/databases/>)
- pymysql (<https://pypi.org/project/pymysql/>)

# Framework?

In both introduced programming languages, there are several frameworks that offer connecting to the database easily. For example, in PHP we have Laravel and in Python we have Django.

*But, be sure that you are allowed to use them.*

Setting up these framework in a sever is more complex (might also need some permission from admin of the severe!) than the mentioned approaches. Be aware about this issue too.