

NDBI040: INTRODUCTION

INTRODUCTION

NOSQL SERVER

- ▶ SSH access
- ▶ nosql.ms.mff.cuni.cz:42222
- ▶ Login (m211_string) and password sent by e-mail
- ▶ If you haven't received any email with your login yet, send me an e-mail
 - ▶ contos@ksi.mff.cuni.cz

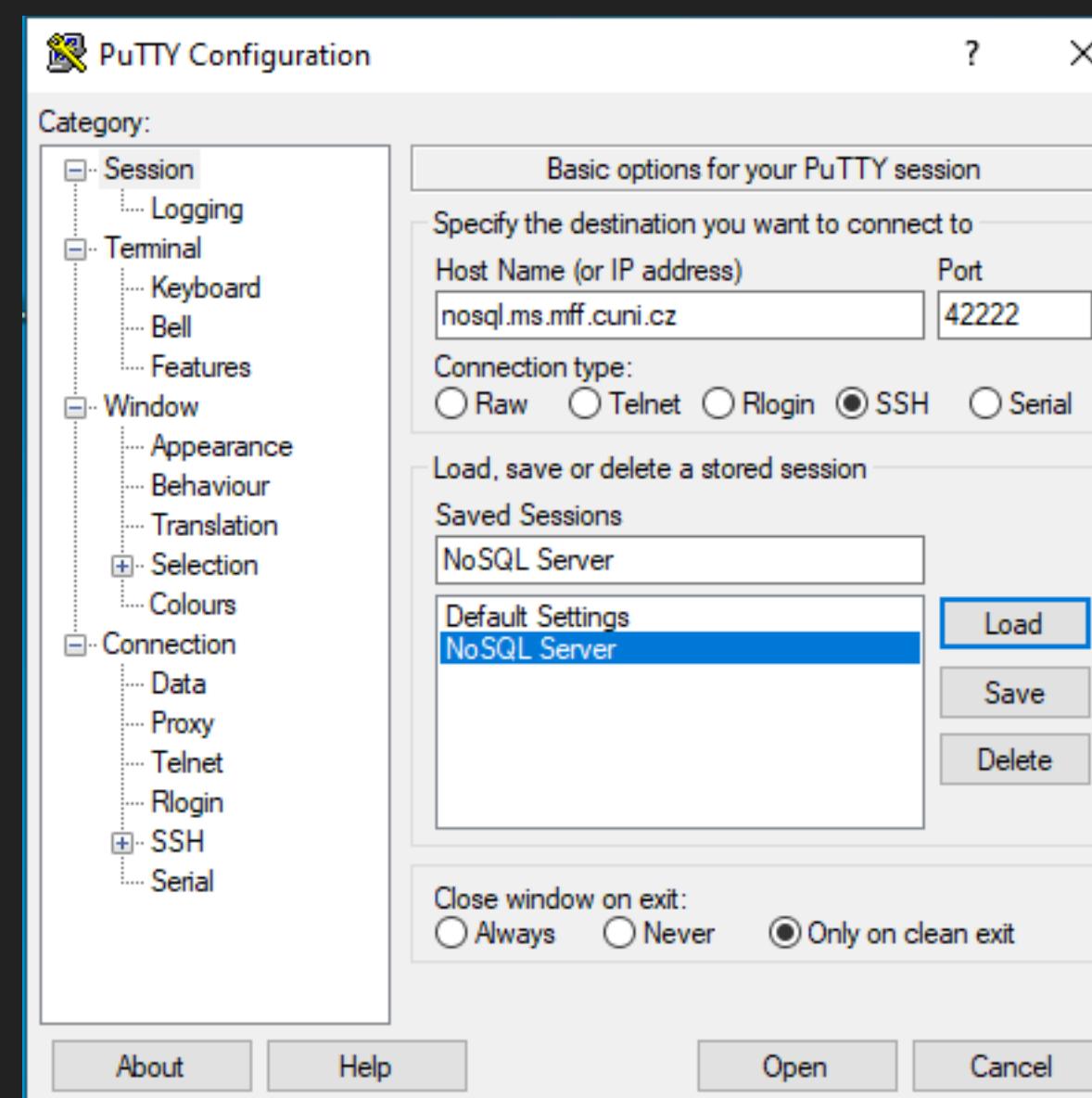
NOSQL SERVER ACCESS ON MACOS/LINUX

- ▶ Connect to server
- ▶ ssh login@nosql.ms.mff.cuni.cz -p 42222

- ▶ Transfer files
- ▶ scp -P 42222 file.txt login@nosql.ms.mff.cuni.cz:/home/login/file.txt
- ▶ scp -P 42222 login@nosql.ms.mff.cuni.cz:/home/login/file.txt ~/Desktop/file.txt

NOSQL SERVER ACCESS ON WINDOWS

- ▶ Connect to server nosql.ms.mff.cuni.cz port: 42222
- ▶ PuTTY - <http://www.chiark.greenend.org.uk/~sgtatham/putty>



The screenshot shows a terminal window titled 'm201_student@nosql: ~'. The window displays a successful SSH login to the 'NoSQL Server' at port 42222. The session information includes:

```
m201_student@nosql: ~
login as: m201_student
m201_student@nosql.ms.mff.cuni.cz's password:
Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 4.15.0-118-generic x86_64)

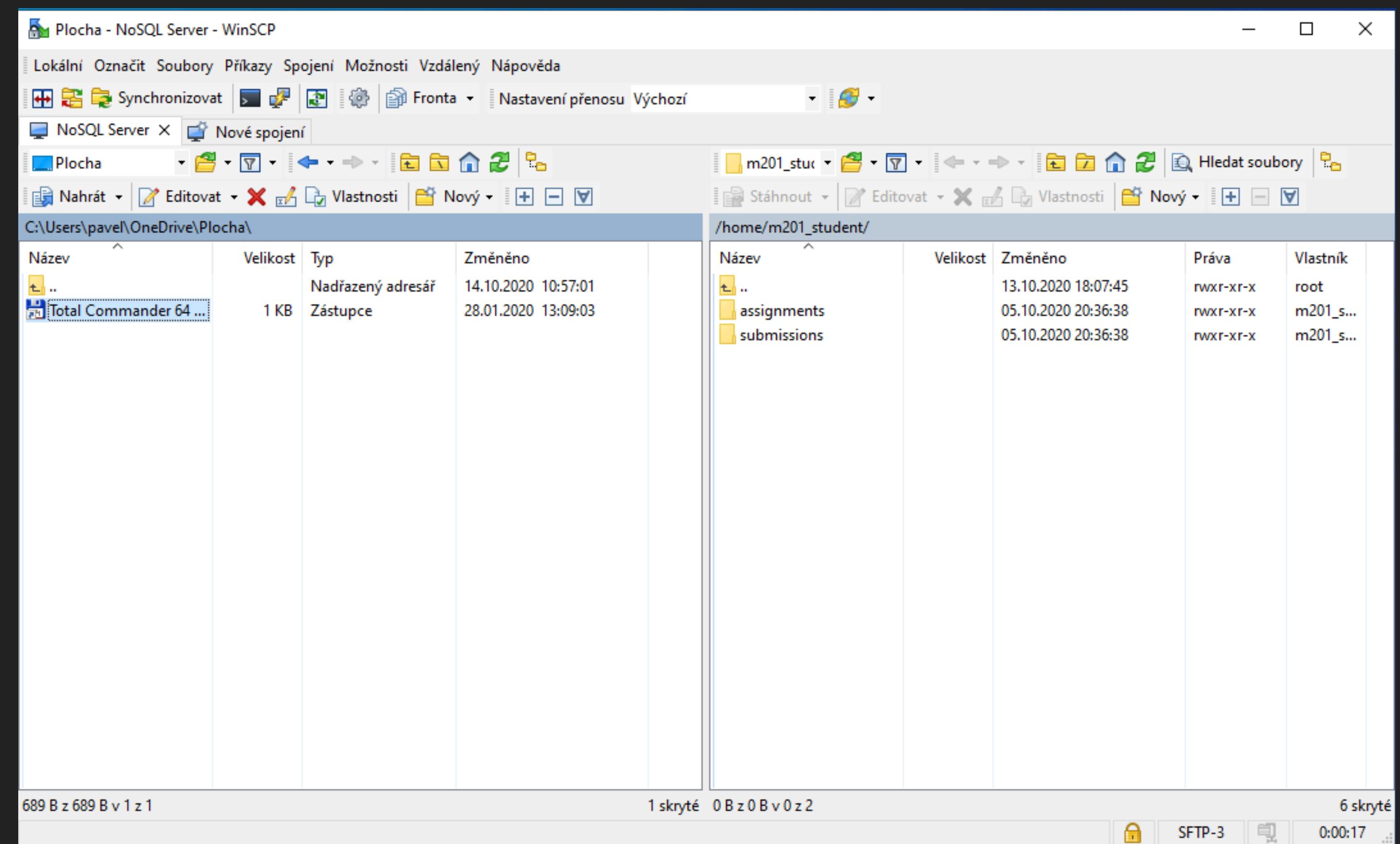
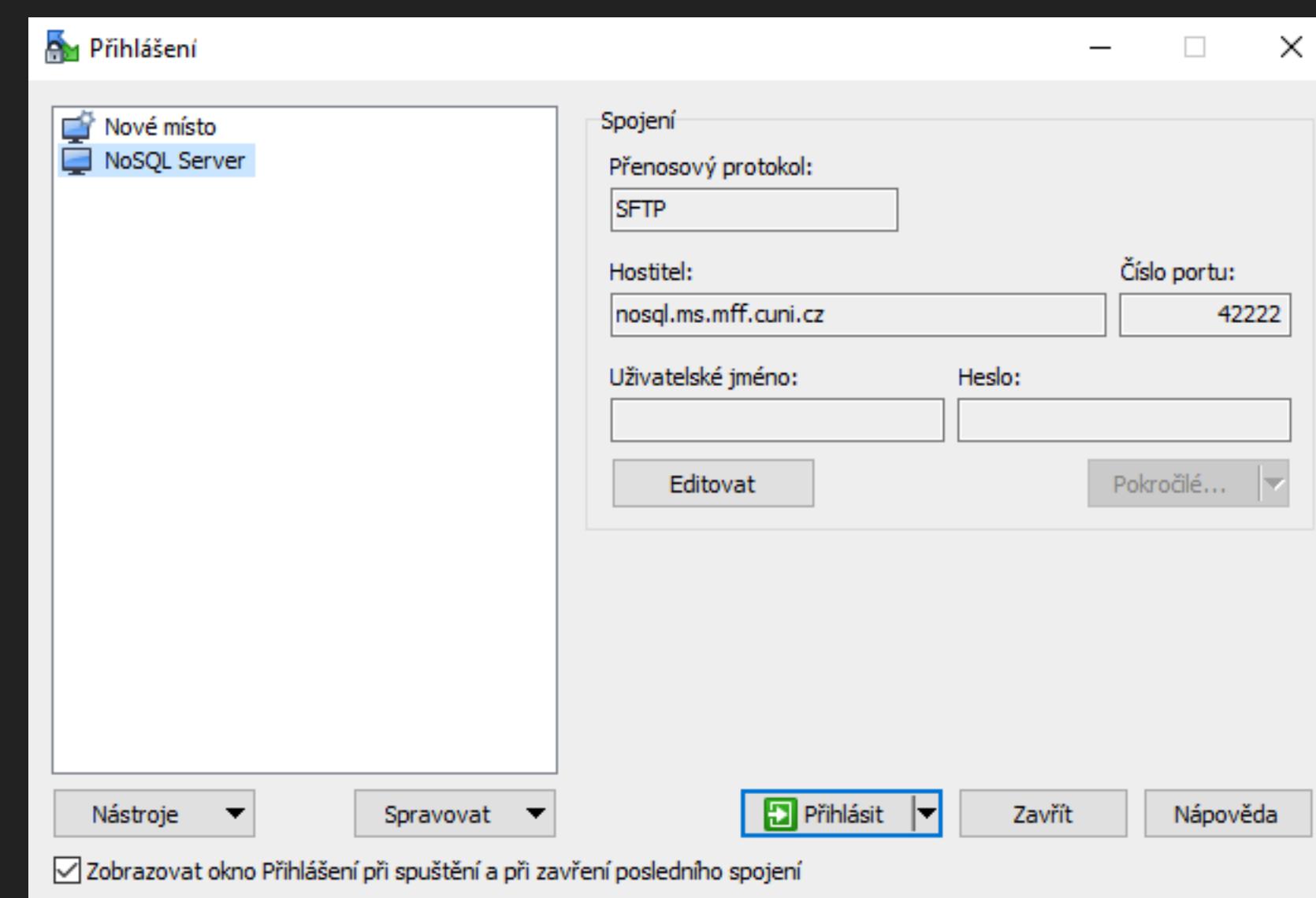
System information as of Wed Oct 14 11:00:44 CEST 2020

System load: 0.26          Processes: 302
Usage of /: 67.5% of 992.06GB  Users logged in: 2
Memory usage: 44%          IP address for ens160: 195.113.19.170
Swap usage: 2%              IP address for docker0: 172.17.0.1
New release '20.04.1 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

*** System restart required ***
Last login: Wed Oct 14 10:54:22 2020 from 185.14.233.250
m201_student@nosql:~$
```

NOSQL SERVER ACCESS ON WINDOWS

- ▶ Transfer files
- ▶ WinSCP - <http://winscp.net/>



FIRST STEPS

- ▶ Change your initial password
 - ▶ `passwd`
- ▶ Browse important directories
 - ▶ `/home/login/` - personal directory with your data
 - ▶ `/home/NOSQL/` - shared directory with course data

INDIVIDUAL ASSIGNMENT

- ▶ Select (multi-model) database system to do a research work
 - ▶ Each student must select distinct system
 - ▶ The selected system must be reported to and accepted by the tutor
 - ▶ Deploy the system on your computer
 - ▶ Explore supported data model(s) and theirs connection (if applicable)
 - ▶ Explore query language(s)
 - ▶ Finally, prepare a presentation summarising your observation

INDIVIDUAL ASSIGNMENT

- ▶ Presentation:
 - ▶ Briefly introduce the selected system
 - ▶ Present the structure of data model(s) and theirs connection (if applicable)
 - ▶ Shortly present query language and its examples
 - ▶ Discuss advantages and/or disadvantages of the selected system
- ▶ Each presentation will be limited to 10 minutes (approximately 10 pages) and additional 3 minutes of discussion

INDIVIDUAL ASSIGNMENT

- ▶ Points:
 - ▶ Based on completeness and quality: up to 15 points
 - ▶ Based on evaluation by students: up to 5 points
- ▶ Deadline:
 - ▶ Database selection - 10. 3. 2022 23:59 (AoE)
 - ▶ Submit presentation - 3. 5. 2022 23:59 (AoE)