simpleDBMS installation

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Outline

- Prerequisite
- Clone simpleDBMS repo
- Install Google test
- Compile simpleDBMS
- Run tests
- Try it !
- Learn Git
- Appendix

Prerequisite

- We expect you install your own Virtual Machine(VM) in last homework
- The following tutorial should be done in your VM
- Type following cmds in terminal (using CTRL+ALT+T to open it)
1. Install packages
   sudo apt install make cmake git gcc g++ python3.6
2. Install & try Google test

Clone GitHub repo

- Clone simpleDBMS from GitHub
  - git clone https://github.com/Billy4195/simple_DBMS.git
- Make sure simpleDBMS is successfully cloned
  - You should see simple_DBMS in the result of the below cmd
  - ls

Compile simpleDBMS

- Check sure your working directory is in root folder of simpleDBMS
  - You should see something like <some path>/simple_DBMS in the result of following cmd
  - pwd
- Compile simpleDBMS using make
  - make
- You should see a binary file shell in current folder
  - ls

Run tests

- Run unit test using make (with Google Test)
  - make check
- Run system test using python
  - python3 test/system/system_test.py <shell path>
  - <shell path> is the path of compiled binary, according to previous slide is ./shell
  - You can see testcases for the tasks you need to finish

Try it !

- Execute the compiled simpleDBMS
  - ./shell

```
su@su-ADSL-LAB ~/repo/simepleDBMS $ ./shell
db >
```

- To show the basic usage using .help built-in cmd

```
su@su-ADSL-LAB ~/repo/simepleDBMS $ ./shell
db > .help
# Supported Commands

## Built-in Commands

  * .exit
```

Learn Git

- Git is one kind of version control tool
- [GitLab setup](#)
- For quick start, please refer to [為你自己學 Git](#)
  - [把檔案交給 Git 控管](#)
  - [工作區、暫存區與儲存庫](#)
  - [檢視紀錄](#)

Appendix

- Git tutorials
  - [為你自己學 Git](#)
  - [Learn Git a different way](#)
  - [How to Write a Git Commit Message](#) ([中文版](#))
- Linux cmds
  - [40+ most used Ubuntu 18.04 Commands](#)