Tutorial of MySQL installation

Outline

- Install Virtual Machine
- Install Docker
- Install MySQL

Install Virtual Machine - MS Windows

- 1. Visit the VirtualBox website
- 2. Download & Install VirtualBox
- 3. Watch the <u>video</u> (Install lubuntu 18.04)

Install Virtual Machine - Ubuntu

- Visit the VirtualBox website
- 2. Download & Install VirtualBox
 - a. sudo dpkg -i <Download_PATH>/virtualbox-6.0_6.0.4-128413_Ubuntu_xenial_amd64.deb
- 3. Watch the <u>video</u> (Install lubuntu 18.04)

Install Docker

- sudo apt update
- sudo apt install apt-transport-https ca-certificates curl software-properties-common
- curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -
- sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu bionic stable"
- sudo apt update
- sudo apt install docker-ce

Install Docker --- Verify installation

docker run hello-world

```
su@ubuntu:~$ sudo docker run hello-world
Status: Downloaded newer image for hello-world:latest
Hello from Docker!
To generate this message, Docker took the following steps:
1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
3. The Docker daemon created a new container from that image which runs the
   executable that produces the output you are currently reading.
To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash
Share images, automate workflows, and more with a free Docker ID:
https://docs.docker.com/get-started/
```

Install MySQL --- Using Docker

Download csv files to the current path

- O ls
- O You should see match.csv & player_statistic.csv

Start mysql server

```
O docker run --name some-mysql -e MYSQL ROOT PASSWORD=my-secret-pw -d mysql:5.7
```

Connect to mysql server

```
O docker run -it --link some-mysql:mysql -v `pwd`:/data --rm mysql:5.7 sh -c 'exec mysql -h"$MYSQL_PORT_3306_TCP_ADDR" -P"$MYSQL_PORT_3306_TCP_PORT" -uroot -p"$MYSQL_ENV_MYSQL_ROOT_PASSWORD"'
```

https://hub.docker.com/_/mysql

Verify data

- mysql> system ls /data
- mysql> system head /data/match.csv
- mysql> system head /data/player_statistic.csv