

Lore.AI

Internship task

1. I found an appropriate data set of dummy startup companies of USA. It is a CSV file, *1000-Startups.csv*. It has the following variables,

ID INT NOT NULL AUTO_INCREMENT,
Name VARCHAR(255),
Industry VARCHAR(255),
Description VARCHAR(255),
Year_Founded INT,
Employees INT,
State VARCHAR(255),
City VARCHAR(255),
Metro_Area VARCHAR(255));

2. I uploaded the dataset into MySQL database by creating a Schema called *startup_companies* by using MySQL workbench. However, I had followed an online course on MongoDB, so I can also use Mongo DB for the same purpose but for this moment I am using MySQL database.

3. First, I was trying to create the docker container from the pulled image of MySQL from docker hub, as follows,

```
abti0@LAPTOP-P2TMR3M6 MINGW64 /c/Program Files/Docker Toolbox
$ docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS                               NAMES
2b0d15921550       mysql:latest       "docker-entrypoint.s..."  2 hours ago        Up 2 hours         0.0.0.0:3306->3306/tcp, 33060/tcp  db
```

```
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| statup_comp |
| sys |
+-----+
5 rows in set (0.00 sec)
```

Then I had to upload the *1000-Startups.csv* file into *statup_comp* database. But it didn't work.

Now, I am creating my custom image as follows,

docker-compose file:

FROM mysql:latest	(name of the image I am going to use)
ENV MYSQL_ROOT_PASSWORD 123	(environment variable)
ENV MYSQL_DATABASE startup_companies	(Environment variable to create a new database)
ENV MYSQL_USER admin	(User of the database)
ENV MYSQL_PASSWORD 1234	(password for user)
ADD script.sql /docker-entrypoint-initdb.d	(It should be in the same directory of the docker file)
EXPOSE 3306	(port mapping)

script.sql contains the SQL script which can upload the *1000-Startups.csv* file into the database.

In this way, I can build my own custom docker image and then create a container for this image.