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1) Dockerfile:

FROM mysql

ENV MYSQL\_ROOT\_PASSWORD pucsd

ENV MYSQL\_DATABASE pucsdStudents

ENV MYSQL\_USER pucsd

ENV MYSQL\_PASSWORD pucsd

COPY test.sql /docker-entrypoint-initdb.d/

2)

i) FROM mysql:

here I have used "mysql" as a base image.

ii) ENV MYSQL\_ROOT\_PASSWORD pucsd:

This environment variable will be passed while creating container, thus root users password will be Set to "pucsd" password.

iii) ENV MYSQL\_DATABASE pucsdStudents:

By passing this variable new database "pucsdStudents" will be created.

iv) ENV MYSQL\_USER pucsd:

ENV MYSQL\_PASSWORD pucsd

By passing this two environment variables, new user with username "pucsd" and password "pucsd" Will be created and this user will be given Super user priviliages to "pucsdStudents" database.

v) COPY pucsdStudents.sql /docker-entrypoint-initdb.d/ :

Copying pucsdStudents.sql file to /docker-entrypoint-initdb.d/ location.

Thus while creating container from this image, this database will be automatically imported.

3) image from Dockerfile and creating container.

```
$ sudo docker build . -t pucsdsql
```

```
$ sudo docker run --name=pucsdsql -p 3306:3306 pucsdsql
```

4) Repository link: <https://github.com/madhurkadam>