

Atividade 05 – Evidências

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Criando a pasta mysql-docker e entrando nela.

```
[node1] (local) root@192.168.0.8 ~  
$ mkdir mysql-docker  
[node1] (local) root@192.168.0.8 ~  
$ cd mysql-docker
```

Criando, dentro desta pasta, o arquivo vazio Dockerfile.

```
[node1] (local) root@192.168.0.8 ~/mysql-docker  
$ touch Dockerfile
```

Editando o arquivo Dockerfile e criando e editando o arquivo init.sql.

```
[node1] (local) root@192.168.0.8 ~  
$ vim Dockerfile  
[node1] (local) root@192.168.0.8 ~  
$ touch init.sql  
[node1] (local) root@192.168.0.8 ~  
$ vim init.sql  
[node1] (local) root@192.168.0.8 ~  
$ docker build -t mysql-alunos .
```

Vendo o conteúdo posto nestes dois arquivos.

```
[node1] (local) root@192.168.0.8 ~  
$ cat Dockerfile  
FROM mysql:latest  
ENV MYSQL_ROOT_PASSWORD=kid_aluno  
ENV MYSQL_DATABASE=BD_ALUNOS  
COPY init.sql /docker-entrypoint-initdb.d/  
EXPOSE 3306  
  
[node1] (local) root@192.168.0.8 ~  
$ cat init.sql  
CREATE TABLE TB_ALUNO(  
id INT AUTO_INCREMENT PRIMARY KEY,  
nome VARCHAR(100) NOT NULL,  
idade INT NOT NULL  
);  
  
CREATE TABLE TB_PROFESSOR(  
id INT AUTO_INCREMENT PRIMARY KEY,  
nome VARCHAR(100) NOT NULL,  
disciplina VARCHAR(100) NOT NULL  
);
```

Construindo a imagem.

```
[node1] (local) root@192.168.0.8 ~
$ docker build -t mysql-alunos .
[+] Building 67.9s (7/7) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 176B
=> [internal] load metadata for docker.io/library/mysql:latest
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [internal] load build context
=> => transferring context: 273B
=> [1/2] FROM docker.io/library/mysql:latest@sha256:0255b469f0135a0236d672d60e3154ae2f4538b146744966d96440318cc822c6
=> => resolve docker.io/library/mysql:latest@sha256:0255b469f0135a0236d672d60e3154ae2f4538b146744966d96440318cc822c6
=> => sha256:0255b469f0135a0236d672d60e3154ae2f4538b146744966d96440318cc822c6 2.62kB / 2.62kB
=> => sha256:8689c5f93826d949b43a4b7613f9216499694a3082bdc372094a2910082aa391 2.86kB / 2.86kB
=> => sha256:56a814e14044b8ec7ffb4dd165c8dbe10d4c6ba3d9e754f0c906f52a0b5b4fb 6.52kB / 6.52kB
=> => sha256:2c0a233485c3a7b6cab556a9a9c2916ca9a3afc8c46097ddfbe0af4fe120a50c 49.10MB / 49.10MB
=> => sha256:cb5a6a8519b2b1d789b65fe763238531f3456522a13e5e8d6a644ccd9a95e527 885B / 885B
=> => sha256:570d30cf82c5e8cd5bde2c25ddc2d5c25e9a38583f09f4411ffce694e1694355 983.00kB / 983.00kB
=> => sha256:a841bff36f3c6803a0ea0497a2f21ed75fcc7614e9f0fdafl130861d2052f3f1 6.90MB / 6.90MB
=> => sha256:80ba30c577823a1075c778315bd221b405236429f27ad62b3d359d59e55c640d 2.60kB / 2.60kB
=> => sha256:5e49e1f26961569a4b36de1ed482bccbb9249ca5b29d008222bb19d302cca30 340B / 340B
=> => sha256:ced670fc7f1c77db06886a4b52dc4051543eac07c0f58d481c62f0993e93e365 48.21MB / 48.21MB
=> => sha256:0b9dc7ad7f03decfdeb7260a38115fa61c9d00a8bcaadc00fd9034290cbc8b7f 325B / 325B
=> => sha256:cd0d5df9937b5e0d0634c76339346dfac141def2ee29367bf9858ea335714477 69.09MB / 69.09MB
=> => sha256:1f87d67b89c62ad5e3961e9f730df83c0628049afd874dcfb0df2cd3e7dc5faf 5.32kB / 5.32kB
=> => extracting sha256:2c0a233485c3a7b6cab556a9a9c2916ca9a3afc8c46097ddfbe0af4fe120a50c
=> => extracting sha256:cb5a6a8519b2b1d789b65fe763238531f3456522a13e5e8d6a644ccd9a95e527
=> => extracting sha256:570d30cf82c5e8cd5bde2c25ddc2d5c25e9a38583f09f4411ffce694e1694355
=> => extracting sha256:a841bff36f3c6803a0ea0497a2f21ed75fcc7614e9f0fdafl130861d2052f3f1
=> => extracting sha256:80ba30c577823a1075c778315bd221b405236429f27ad62b3d359d59e55c640d
=> => extracting sha256:5e49e1f26961569a4b36de1ed482bccbb9249ca5b29d008222bb19d302cca30
=> => extracting sha256:ced670fc7f1c77db06886a4b52dc4051543eac07c0f58d481c62f0993e93e365
=> => extracting sha256:0b9dc7ad7f03decfdeb7260a38115fa61c9d00a8bcaadc00fd9034290cbc8b7f
```

We'd love to

Rodando o container...

```
[node1] (local) root@192.168.0.8 ~
$ docker run --name mysql-alunos -d -p 3306:3306 mysql-alunos
790e39d2e8e7184dc924d5208d9d9fd93ec3057fddc08f0f4d56605a96d4bf64
```

Entrando dentro do container.

```
[node1] (local) root@192.168.0.8 ~
$ docker exec -it mysql-alunos mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 11
Server version: 9.1.0 MySQL Community Server - GPL

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
```

Executando os comandos relativos ao banco de dados criado.

```
mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| BD_ALUNOS |
| information_schema |
| mysql |
| performance_schema |
| sys |
+-----+
5 rows in set (0.01 sec)

mysql> USE BD_ALUNOS;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> SHOW TABLES;
+-----+
| Tables_in_BD_ALUNOS |
+-----+
| TB_ALUNO |
| TB_PROFESSOR |
+-----+
```