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Evidenciar a execução do Prompt-02 da aula do dia 13/01/2025.

Prompt-02

Como um programador de Banco de Dados, crie um Tutorial para instalar um Banco de Dados Mysql no PlaywithDocker. Crie um Docker file que cria uma imagem e em seguida cria um banco de dados chamado BD_ALUNOS com a senha de root kid_aluno e cria as tabelas TB_ALUNOS e TB_PROFESSORES.

```
#####  
#                                     WARNING!!!!                                     #  
# This is a sandbox environment. Using personal credentials                       #  
# is HIGHLY! discouraged. Any consequences of doing so are                       #  
# completely the user's responsibilities.                                         #  
#                                     #                                           #  
# The PWD team.                                                                 #  
#####  
[node1] (local) root@192.168.0.12 ~  
$ mkdir mysql-docker  
[node1] (local) root@192.168.0.12 ~  
$ cd mysql-docker  
[node1] (local) root@192.168.0.12 ~/mysql-docker  
$ touch Dockerfile  
[node1] (local) root@192.168.0.12 ~/mysql-docker  
$
```

Editor - Pessoal — Microsoft Edge

https://labs.play-with-docker.com/sessions/cu6si3i91nsg00b4r1dg/instances/cu6si3i9_cu6sog8I2o9000cha5sg/editor

Create or upload files in the session terminal and then refresh

Dockerfile

file loaded

Save Reload

```
1 # Usar a imagem oficial do MySQL  
2 FROM mysql:latest  
3  
4 # Definir variáveis de ambiente  
5 ENV MYSQL_ROOT_PASSWORD=kid_aluno  
6 ENV MYSQL_DATABASE=BD_ALUNOS  
7  
8 # Copiar o script de inicialização para o diretório de inicialização do MySQL  
9 COPY init.sql /docker-entrypoint-initdb.d/  
10  
11 # Expor a porta padrão do MySQL  
12 EXPOSE 3306
```

/root
mysql-docker
Dockerfile
init.sql

Create or upload files in the session terminal and then refresh

Dockerfile

init.sql

file loaded

Save

Reload



/root
mysql-docker
Dockerfile
init.sql

```
1 CREATE TABLE TB_ALUNOS (  
2   id INT AUTO_INCREMENT PRIMARY KEY,  
3   nome VARCHAR(100) NOT NULL,  
4   idade INT NOT NULL  
5 );  
6  
7 CREATE TABLE TB_PROFESSORES (  
8   id INT AUTO_INCREMENT PRIMARY KEY,  
9   nome VARCHAR(100) NOT NULL,  
10  disciplina VARCHAR(100) NOT NULL  
11 );
```

```
$ docker build -t mysql-alunos .  
[+] Building 45.9s (7/7) FINISHED  
=> [internal] load build definition from Dockerfile  
=> [internal] load metadata for docker.io/library/mysql:latest  
=> [internal] load .dockerignore  
=> [internal] load build context  
=> [internal] load metadata for docker.io/library/mysql:latest  
=> [1/2] FROM docker.io/library/mysql:latest@sha256:0255b469f0135a0236d672d60e3154ae2f4538b146744966d96440318cc822c6  
=> resolve docker.io/library/mysql:latest@sha256:0255b469f0135a0236d672d60e3154ae2f4538b146744966d96440318cc822c6  
=> sha256:0255b469f0135a0236d672d60e3154ae2f4538b146744966d96440318cc822c6 2.62kB / 2.62kB  
=> sha256:8689c5f93826d49b43a4b7613f9216499694a3082bdc372094e2910082aa391 2.86kB / 2.86kB  
=> sha256:56a8c14a14044bacc7f8b4dd16c8bde10d4c6ba3d973460e904652a0b3b4fb 6.52kB / 6.52kB  
=> sha256:2c0a233485c3a7b6cab556e9a9c2916ca9a3afc8c46097ddfbc0af4fe120a50c 49.10MB / 49.10MB  
=> sha256:cb5a6a8519b2b1d789b65fe763238531f3456522a13e5e8d6a644cod9a95e527 885B / 885B  
=> sha256:570d30cf82c5e8cd5bde2c25ddc2d5c25e9a38583f09e4411ffce694e1694355 983.00kB / 983.00kB  
=> sha256:a841bf36f3c6803a0ea0497a2f21ed75fcc7614e9f0daf1130861d2052f3f1 6.90MB / 6.90MB  
=> sha256:80ba30c577823a1078c778318c221b40823649927fa62b3a359d89e55c640d 2.60kB / 2.60kB  
=> sha256:1ed8e1f2636165a4b36d4ed482b2ccbb3242eab25d408222b1ad302cca30 340B / 340B
```

```
$ docker run --name mysql-alunos -d -p 3306:3306 mysql-alunos  
bd7fc997d03231c652b990964745974f5daa0625f7e4ec497b9b311fc5a0b0f2  
[root@192.168.0.12 ~]# mysql -u root -p
```

```
1 warning found (use docker --debug to expand):  
- SecretsUsedInArgOrEnv: Do not use ARG or ENV instructions for sensitive data (ENV "MYSQL_ROOT_PASSWORD") (line 2)  
[root@192.168.0.8 ~]# mysql -u root -p  
mysql: [Warning] Using a password on the command line interface can be insecure.  
[root@192.168.0.8 ~]# docker run --name mysql-alunos -d -p 3306:3306 mysql-alunos  
a41217874dc37527993740e5c72cd6cb57a88284e817012146a21551bca0e9f  
[root@192.168.0.0 ~]# docker exec -it mysql-alunos mysql -u root -p  
Enter password:  
ERROR 1045 (28000): Access denied for user 'root'@'localhost' (using password: YES)  
[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 9  
Server version: 9.1.0 MySQL Community Server - GPL  
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Oracle is a registered trademark of Oracle Corporation and/or its  
affiliates. Other names may be trademarks of their respective  
owners.
```

```
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_ALUNOS |
| TB_PROFESSORES |
+-----+
2 rows in set (0.00 sec)

mysql> cat Dockerfile
```

```
mysql> cat Dockerfile
-> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'cat Dockerfile' at line 1
mysql> .quit
-> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '.quit' at line 1
mysql> exit
Bye
[node1] (local) root@192.168.0.8 ~/mysql-docker
$ 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 ~/mysql-docker
$ cat init.sql
cat: can't open 'init.sql': No such file or directory
[node1] (local) root@192.168.0.8 ~/mysql-docker
$ cat init.sql
CREATE TABLE IF NOT EXISTS TB_ALUNOS (
    id INT AUTO INCREMENT PRIMARY KEY,
    nome VARCHAR(100) NOT NULL,
    idade INT NOT NULL
);
CREATE TABLE IF NOT EXISTS TB_PROFESSORES (
    id INT AUTO INCREMENT PRIMARY KEY
```