- 🐧 Docker + MySQL Practical Example with Notes
- Step 1: Run MySQL Container

docker run -d --name mydbcont \ -e MYSQL_ROOT_PASSWORD=Pass@123 \

-e MYSQL_DATABASE=wordpressdb \ mysql

Explanation:

- -d → Run container in detached mode (in background).
- --name mydbcont → Sets the container name to mydbcont.
- -e MYSQL_ROOT_PASSWORD=Pass@123 → Sets the root password for MySQL.
- -e MYSQL_DATABASE=wordpressdb → Automatically creates a database named wordpressdb.
- mysql → Uses the official MySQL image from Docker Hub.

Step 2: List Running Containers

docker container ls

Explanation:

- Shows all running containers.
- Helps you verify that mydbcont is up and running.

✓ Step 3: Access the Container Shell

docker exec -it mydbcont /bin/bash

Explanation:

- exec → Execute a command inside a running container.
- -it → Interactive terminal.
- /bin/bash → Opens a bash shell inside the container.

Step 4: Log in to MySQL

mysql -u root -p

Explanation:

- -u root → Log in as MySQL root user.
- -p → Prompt for password (use Pass@123 from earlier).

Step 5: Show Databases

mysql> show databases;

Expected Output:

Should list:

- information_schema
- mysql
- performance_schema
- Sys
- wordpressdb (created automatically)

Comment/Note:

Find the setup launches a MySQL container with a pre-created database named wordpressdb, secured by the root password. This is useful for local development and connecting apps like WordPress to a preconfigured MySQL backend.

Create Container for Wordpress and connect it to the MYSQL container

Step 1: Run WordPress Container

docker run -d --name worpress_cont -p 80:80 \

- -e WORDPRESS DB HOST=mydbcont \
- -e WORDPRESS DB USER=root \
- -e WORDPRESS_DB_PASSWORD=Pass@123 \
- -e WORDPRESS_DB_NAME=wordpressdb \
- --link mydbcont:mysql \

Wordpress

Explanation:

- -d → Detached mode (runs in background).
- --name worpress_cont → Name of the WordPress container.
- -p 80:80 → Maps container port 80 to host port 80.
- -e WORDPRESS_DB_HOST=mydbcont → WordPress connects to the MySQL container mydbcont.
- -e WORDPRESS_DB_USER=root, -e WORDPRESS_DB_PASSWORD=Pass@123 → DB login credentials.
- -e WORDPRESS_DB_NAME=wordpressdb → WordPress will use this DB.
- --link mydbcont:mysql → Links MySQL container (deprecated, prefer custom bridge networks).