

1. Open cmd.exe by pressing “windows” button + “r” button
2. Type mkdir “PMA_docker” to make a phpmyadmin directory named PMA_docker
3. Type “cd PMA_docker” to change directory to PMA_docker

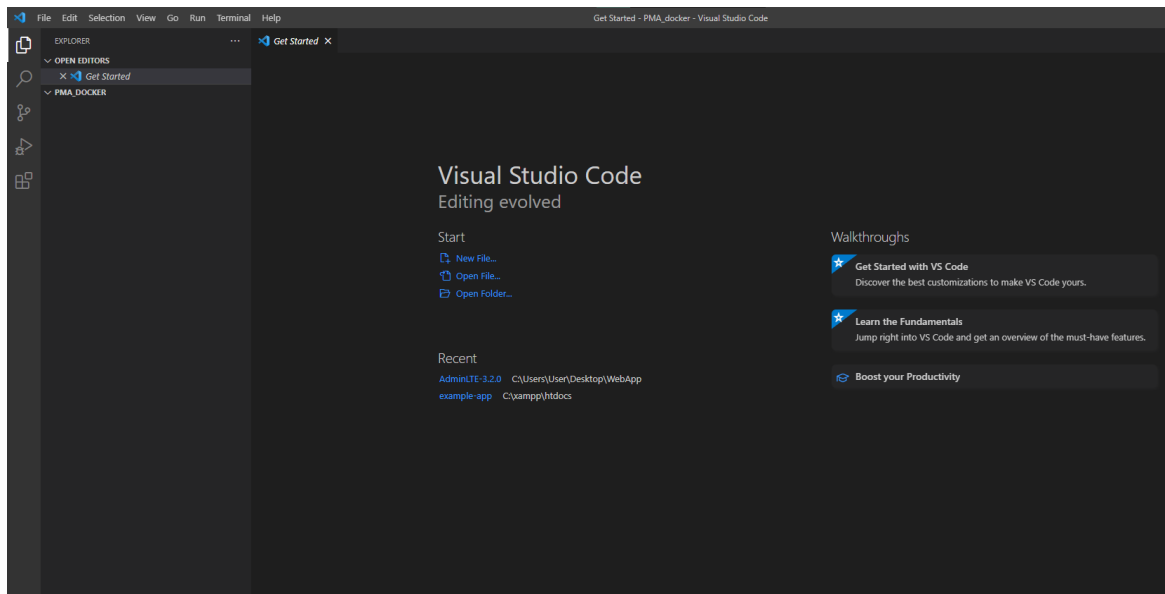
```
C:\Users\User>mkdir PMA_docker
```

```
C:\Users\User>cd PMA_docker
```

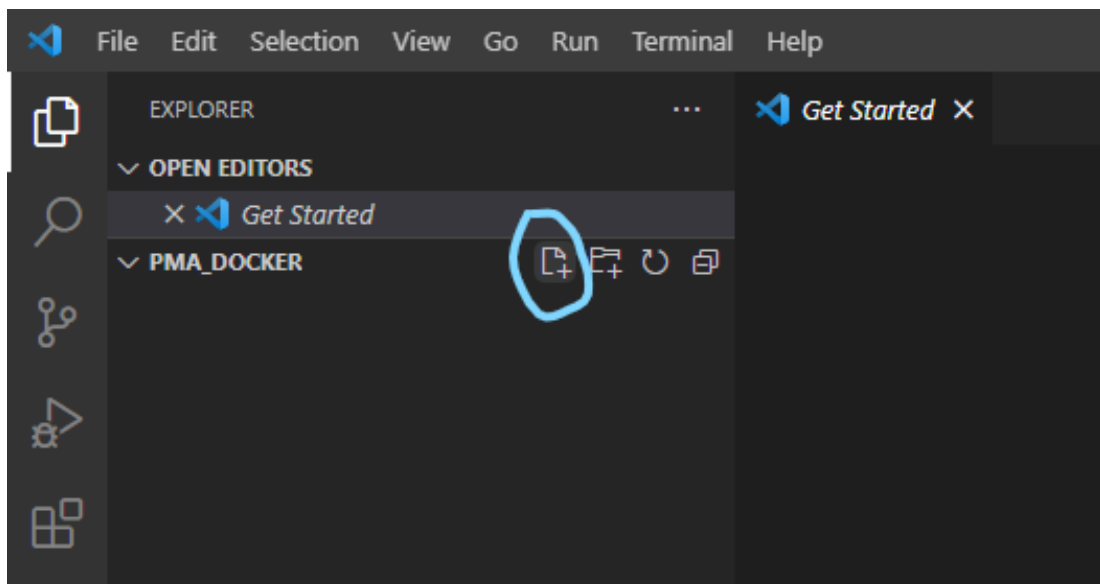
4. Type “code .” to create a new visual studio code in the directory

```
C:\Users\User\PMA_docker>code .
```

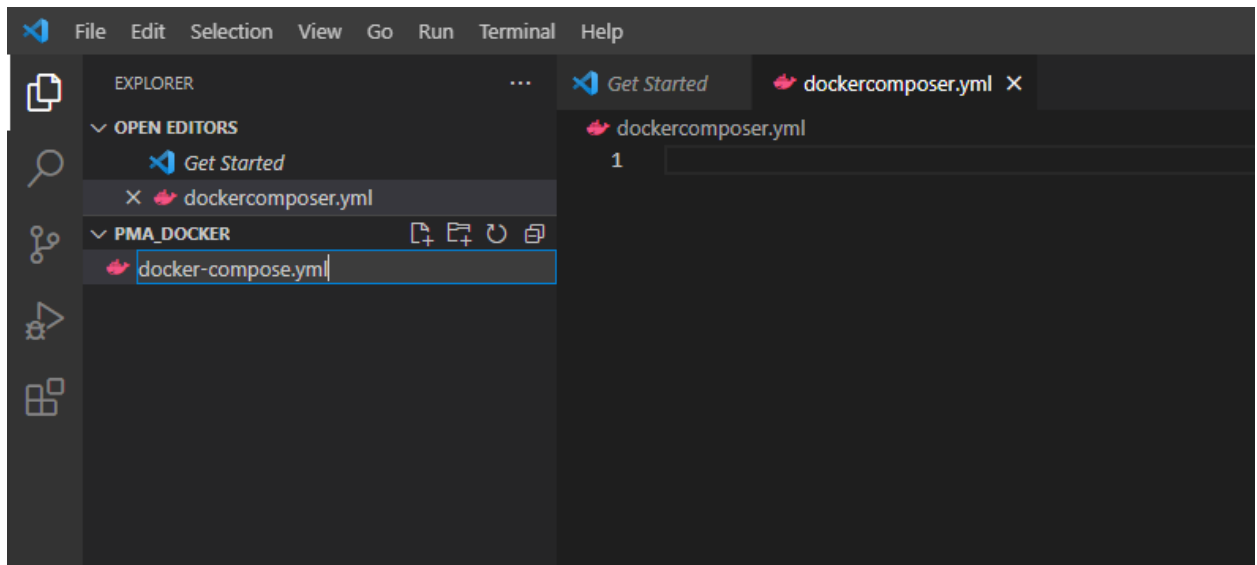
Pressing enter will open visual studio code project



5. Press the new file icon



6. Name the file docker-compose.yml



7. Fill in the file with the following code:

```
version: "3.8"
```

```
services: # adds 2 services: mysql and phpmyadmin to connect with db:
```

```
  image: mysql:latest # use latest version of mysql
```

```
  container_name: db # add a name for the container
```

```
  command: --default-authentication-plugin=mysql_native_password
```

```
  restart: unless-stopped
```

```
  environment: # add default values, see docs for more info.
```

```
    MYSQL_USER: user
```

```
    MYSQL_ROOT_PASSWORD: mypassword
```

```
    MYSQL_PASSWORD: mypassword
```

```
    MYSQL_DATABASE: testdb # create this database on startup
```

```
volumes:
```

```
  - my-db:/var/lib/mysql
```

```
ports:
```

```
  - '3307:3306'
```

```
phpmyadmin:
```

```
  container_name: phpmyadmin
```

```
  image: phpmyadmin/phpmyadmin:latest
```

```
  ports:
```

```
    - "8082:80"
```

```
  environment:
```

```
    MYSQL_ROOT_PASSWORD: mypassword #(Required) set the password for the root  
superuser account.
```

PMA_HOST: db # define the address/hostname of the mysql server eg mysql container name.

PMA_USER: root # this is the root user to login on startup

PMA_PASSWORD: mypassword # use the root password to login on startup.

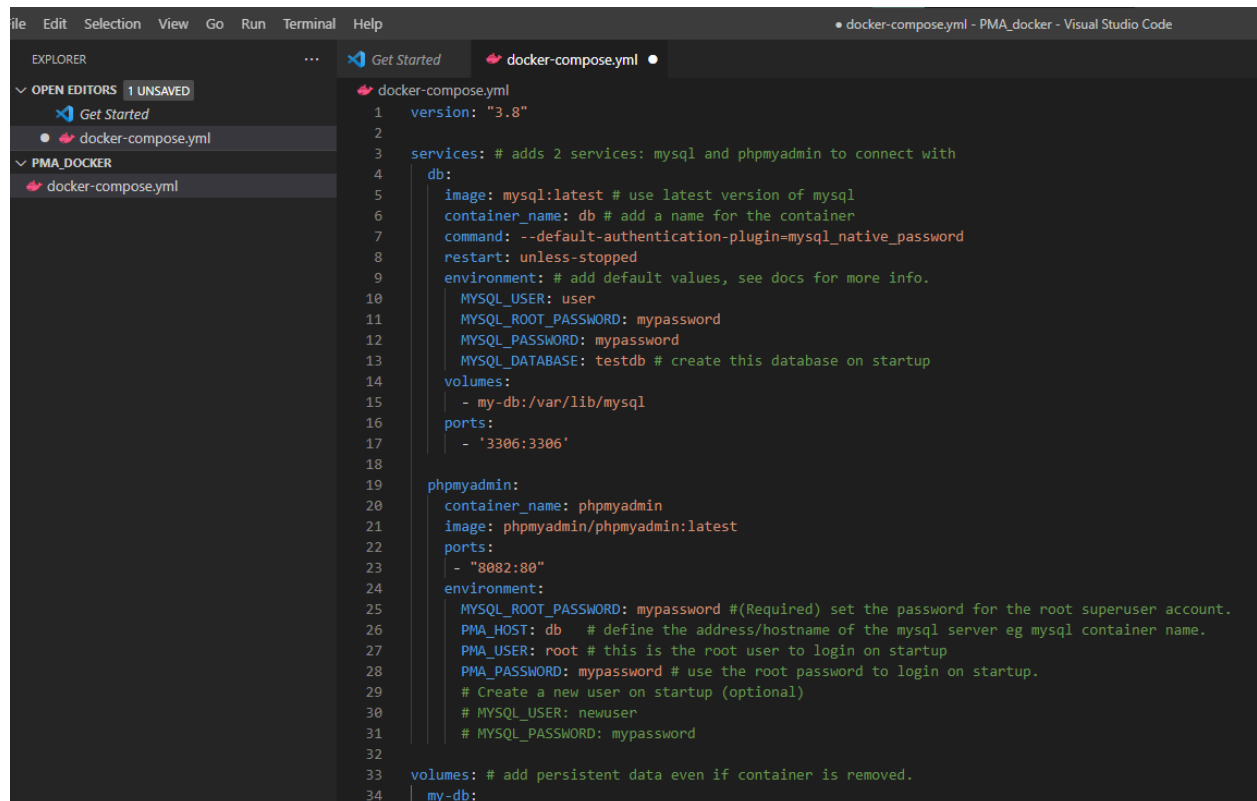
Create a new user on startup (optional)

MYSQL_USER: newuser

MYSQL_PASSWORD: mypassword

volumes: # add persistent data even if container is removed.

my-db:

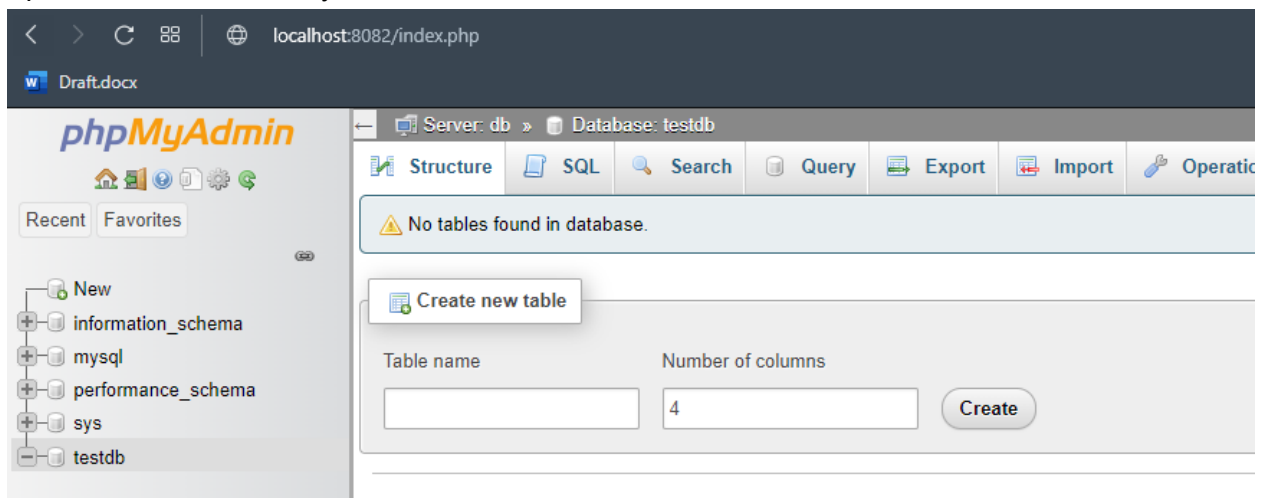


```
1 version: "3.8"
2
3 services: # adds 2 services: mysql and phpmyadmin to connect with
4   db:
5     image: mysql:latest # use latest version of mysql
6     container_name: db # add a name for the container
7     command: --default-authentication-plugin=mysql_native_password
8     restart: unless-stopped
9     environment: # add default values, see docs for more info.
10      MYSQL_USER: user
11      MYSQL_ROOT_PASSWORD: mypassword
12      MYSQL_PASSWORD: mypassword
13      MYSQL_DATABASE: testdb # create this database on startup
14   volumes:
15     - my-db:/var/lib/mysql
16   ports:
17     - '3306:3306'
18
19   phpmyadmin:
20     container_name: phpmyadmin
21     image: phpmyadmin/phpmyadmin:latest
22     ports:
23       - "8082:80"
24     environment:
25       MYSQL_ROOT_PASSWORD: mypassword #(Required) set the password for the root superuser account.
26       PMA_HOST: db # define the address/hostname of the mysql server eg mysql container name.
27       PMA_USER: root # this is the root user to login on startup
28       PMA_PASSWORD: mypassword # use the root password to login on startup.
29       # Create a new user on startup (optional)
30       # MYSQL_USER: newuser
31       # MYSQL_PASSWORD: mypassword
32
33 volumes: # add persistent data even if container is removed.
34   my-db:
```

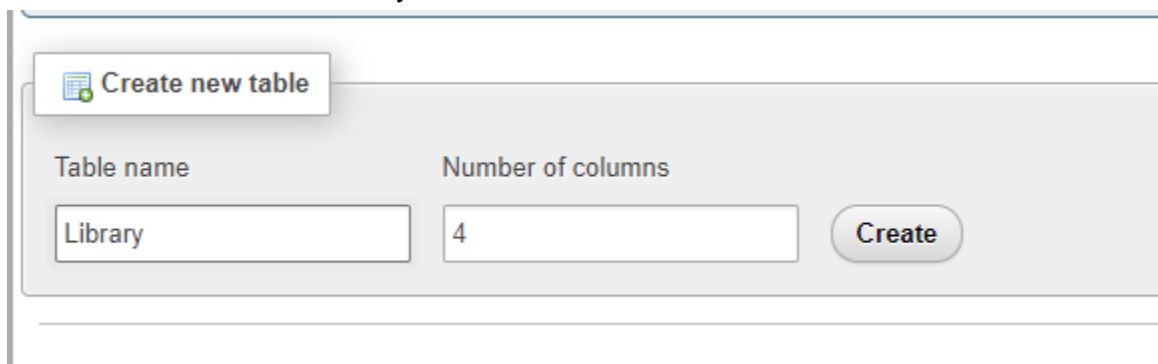
8. Type "docker-compose up -d" to run service and wait for process to finish

```
C:\Users\User\PMA_docker>docker-compose up -d
Creating network "pma_docker_default" with the default driver
Creating volume "pma_docker_my-db" with default driver
Pulling db (mysql:latest)...
latest: Pulling from library/mysql
c1ad9731b2c7: Pull complete
54f6eb0ee84d: Pull complete
cffcf8691bc5: Pull complete
89a783b5ac8a: Pull complete
6a8393c7be5f: Pull complete
af768d0b181e: Pull complete
810d6aaaaf54a: Pull complete
2e014a8ae4c9: Pull complete
a821425a3341: Pull complete
3a10c2652132: Pull complete
4419638feac4: Pull complete
681aeed97dfe: Pull complete
Digest: sha256:548da4c67fd8a71908f17c308b8ddb098acf5191d3d7694e56801c6a8b2072cc
Status: Downloaded newer image for mysql:latest
Pulling phpmyadmin (phpmyadmin/phpmyadmin:latest)...
latest: Pulling from phpmyadmin/phpmyadmin
214ca5fb9032: Pull complete
cd813a1b2cb8: Pull complete
63cf7574573d: Pull complete
54c27146d16e: Pull complete
078f4450f949: Pull complete
5f145e355bc4: Pull complete
fdc797cb9eea: Pull complete
af45e7153a31: Pull complete
b546fbaf263b: Pull complete
16dd2cabbcd2: Pull complete
30a426b49280: Pull complete
c94e73d5f13e: Pull complete
2f5a3464a278: Pull complete
a4f9f723c297: Pull complete
5b04d16a8086: Pull complete
2a3d1fa22772: Pull complete
ef56affc4552: Pull complete
9b9b44731108: Pull complete
Digest: sha256:ae6dadd9cf3c158e42937788f7255fa820ea3daef0349226d8d43f32e76535e1
Status: Downloaded newer image for phpmyadmin/phpmyadmin:latest
```

9. Open localhost:8082 on your browser



10. Create new table named library



11. Insert column name, and length

The screenshot shows the phpMyAdmin interface with the 'Structure' tab selected for the 'Library' table in the 'testdb' database. The table name is 'Library' and the number of columns is '1'. The 'Structure' section shows four columns: 'title', 'author', 'publisher', and 'genre', all of type 'VARCHAR' with a length of '50'. The 'Table comments', 'Collation', and 'Storage Engine' (InnoDB) sections are also visible. The 'PARTITION definition' section is empty. The 'Preview SQL' and 'Save' buttons are at the bottom.

Name	Type	Length/Values	Default	Collation	Attril
title	VARCHAR	50	None		
author	VARCHAR	50	None		
publisher	VARCHAR	50	None		
genre	VARCHAR	50	None		

12. Press "insert" button to insert data

The screenshot shows the phpMyAdmin interface with the 'Relation view' tab selected for the 'Library' table in the 'testdb' database. The 'Insert' button in the top navigation bar is circled in blue. The table structure is shown with four columns: 'title', 'author', 'publisher', and 'genre', all of type 'varchar(50)' and collation 'utf8mb4_0900_ai_ci'. The 'Action' column for each row contains links for 'Change', 'Drop', and 'More'.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	title	varchar(50)	utf8mb4_0900_ai_ci		No	None			Change Drop More
2	author	varchar(50)	utf8mb4_0900_ai_ci		No	None			Change Drop More
3	publisher	varchar(50)	utf8mb4_0900_ai_ci		No	None			Change Drop More
4	genre	varchar(50)	utf8mb4_0900_ai_ci		No	None			Change Drop More

13. Insert data and press “go”

Column	Type	Function	Null	Value
title	varchar(50)	<input type="text"/>		Morbius
author	varchar(50)	<input type="text"/>		Jared leto
publisher	varchar(50)	<input type="text"/>		Marvel
genre	varchar(50)	<input type="text"/>		Comedy

[Go](#)

✓ 1 row inserted.

```
INSERT INTO `Library` (`title`, `author`, `publisher`, `genre`) VALUES ('Morbius ', 'Jared leto', 'Marvel', 'Comedy');
```

[\[Edit inline \]](#) [\[Edit \]](#) [\[Create PHP code \]](#)

14. Done