



```
mkdir db
```

```
cd db
```

Container 'lar kullan at prensibine dayanır.

Mysql gibi özellikle database olan container 'larla isimiz bittiginde icindeki bilgileri kaybetmek istemeyiz.

Belirli ozelligi olan container'larin otomatik olarak volume' i vardır.

Database containerlarinin (mysql , postgre sql, ...) container 'larin her birinin volume 'u vardır .

Container 'i stop etsen de database otomatik olarak silinmez.

Cunku amac o datanin storage 'in orada durmasi ve yeni bir container yaratildiginda o data yeni container' da kullanilir.

#Daha once appnet isimli network oluşturmadıysan;

```
docker network create --subnet=172.20.0.0/24 --gateway=172.20.0.1 appnet
```

```
docker run \
--env MYSQL_ALLOW_EMPTY_PASSWORD=yes \
--net appnet \
--ip 172.20.0.200 \
-v /home/kc/db:/var/lib/mysql \
-it -d \
--name mysql57 \
mysql:5.7
```

```
docker container ls
```

#mysql container'ina bağlan

#asagidaki komutu yaz:

```
docker exec -it mysql57 bash
```

#Container'in icindeyken

```
mysql
```



```
CREATE DATABASE inventory;  
USE inventory;
```

```
CREATE TABLE routers (  
    hostname TEXT,  
    ip TEXT  
);
```

```
INSERT INTO routers VALUES ('r1.example.com', '192.168.1.1');  
INSERT INTO routers VALUES ('r2.example.com', '192.168.1.2');  
INSERT INTO routers VALUES ('r3.example.com', '192.168.1.3');
```

```
SELECT * FROM routers;
```

```
#mysql'den cik
```

```
exit
```

```
#container'dan cik
```

```
exit
```

```
#mysql container'i durdur ve database klasorunde mysql dosyalarinin halen mevcut oldugunu gor
```

```
docker container stop mysql57
```

```
#tekrardan mysql containerini calistir
```

```
docker run \  
    --env MYSQL_ALLOW_EMPTY_PASSWORD=yes \  
    --net appnet \  
    --ip 172.20.0.200 \  
    -v /home/kc/db:/var/lib/mysql \  
    -it -d \  
    --name mysql57 \  
    mysql:5.7
```



#container a baglan ve container da mysql ' deki tablolari gor

```
docker exec -it mysql57 bash
```

```
mysql
```

```
SELECT * FROM inventory.routers
```

```
; exit
```

```
exit
```

```
docker container stop mysql57
```