Docker instalado:

```
C:\Users\vborrayo>docker --version
Docker version 20.10.8, build 3967b7d
C:\Users\vborrayo>
```

Hello World

```
C:\Users\vborrayo>docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
2db29710123e: Pull complete
Digest: sha256:37a0b92b08d4919615c3ee023f7ddb068d12b8387475d64c622ac30f45c29c51
Status: Downloaded newer image for hello-world:latest

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
(amd64)
3. The Docker daemon created a new container from that image which runs the executable that produces the output you are currently reading.
4. The Docker daemon streamed that output to the Docker client, which sent it to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:
https://hub.docker.com/

For more examples and ideas, visit:
https://docs.docker.com/get-started/
```

Docker pull

```
C:\Users\vborrayo>docker pull busybox
Using default tag: latest
latest: Pulling from library/busybox
01c2cdc13739: Pull complete
Digest: sha256:15e927f78df2cc772b70713543d6b651e3cd8370abf86b2ea4644a9fba21107f
Status: Downloaded newer image for busybox:latest
docker.io/library/busybox:latest
```

```
C:\Users\vborrayo>docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
busybox latest cabb9f684f8b 3 days ago 1.24MB
mysql 5.7.35 8a8a506ccfdc 2 weeks ago 448MB
jupyter/base-notebook latest f14b646c836f 2 weeks ago 668MB
hello-world latest feb5d9fea6a5 5 weeks ago 13.3kB
```

Docker busybox

```
C:\Users\vborrayo>docker run busybox
C:\Users\vborrayo>docker run busybox echo "Hello from Galileo master"
Hello from Galileo master
C:\Users\vborrayo>
```

Docker ps

Docker run -it

```
C:\Users\vborrayo>docker run -it busybox sh
/ # ls
bin dev etc home proc root sys tmp usr var
/ # uptime
03:49:27 up 19 min, 0 users, load average: 0.01, 0.02, 0.00
/ #
```

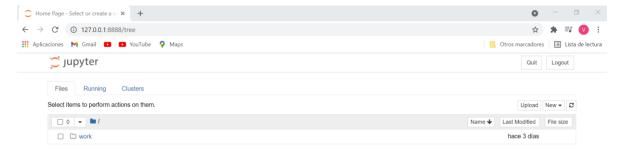
Docker rm

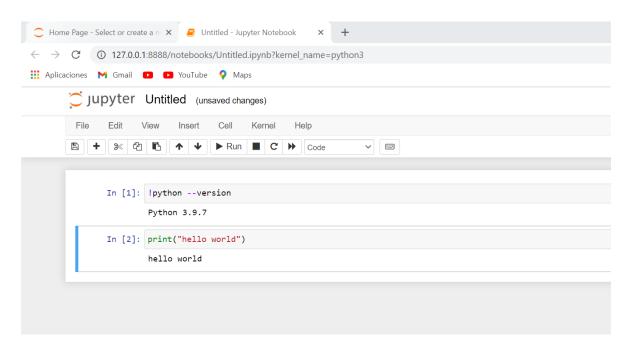
Docker con Python

Obteniendo contenedor jupyter/base-notebook

```
C:\Users\vborrayo>docker pull jupyter/base-notebook
Using default tag: latest
latest: Pulling from jupyter/base-notebook
7b1a6ab2e44d: Pull complete
aae7ac7ba423: Pull complete
ac5e015e0bca: Pull complete
d7ee77f7580c: Pull complete
a5db759ff9c8: Pull complete
c464ee64836c: Pull complete
c464ee64836c: Pull complete
ae5313d07705: Pull complete
0c52b58dd46b: Pull complete
6030cc7cf343: Pull complete
25203b1e1be1: Pull complete
464a3cf035e8: Pull complete
Digest: sha256:5876e42c22c5df950880518f13f9c8e08b2c8fd50d1072519887735c14ee63f7
Status: Downloaded newer image for jupyter/base-notebook:latest
docker.io/jupyter/base-notebook:latest
```

Jupyter notebook

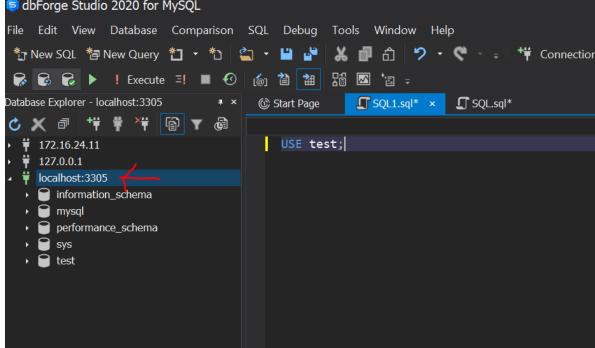




Creando red para contenedores

C:\Users\vborrayo>docker network create --driver bridge network-test 18412abfb5dbf8f1421cfba5a47eae42bb3985a15e16cf6c5df09cbafb012efc

Corriendo contenedor mysql



Conectando contenedor de Jupyter notebook con contenedor Mysql

```
r run -p 8888:8888 --network network-test jupyter/base-notebook
deprecation notice https://github.com/jupyter/docker-stacks#jupyter-notebook-deprecation-notice.
jupyter notebook
                               Sorrayo-docker fun —p assaisasio mitters: intension inte
         To access the notebook, open this file in a browser:
file:///home/jovyan/. local/share/jupyter/runtime/nbserver-7-open.html
Or copy and paste one of these URLs:
http://fc857885a06d.8888/?token=9b99e994a88ab067aa7df653aa130920c451837f3248d6ca
or http://127.0.0.1.8888/7token=9b99e994a88ab067aa7df653aa130920c451837f3248d6ca
                   ers\vborrayo>docker exec -it sharp_shamir sh
install mysql-connector-python
ting mysql-connector-python
loading mysql_connector_python-8.0.27-1commercial-cp39-cp39-manylinux1_x86_64.whl (37.5 MB)
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        Code

                                              In [5]: from sqlalchemy import create_engine
import pandas as pd
                                                                        source = create engine('mysql+mysqlconnector://root:root123@172.20.0.2/test')
                                              In [6]: pd.read_sql('select now()', con = source)
                                                                        0 2021-10-31 04:47:06
```

Docker compose

Archivo yml

