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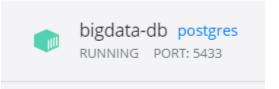
Modo de ejecución del código (Windows Terminal)

Creación de imagen/contenedor de la base de datos

Para la creación de la base de datos ejecute el siguiente código en la terminal

- 1. docker rm bigdata-db
- 2. docker run --name bigdata-db ^
- 3. -e POSTGRES_PASSWORD=testPassword ^
- 4. -p 5433:5432 ^
- 5. -d postgres

Si la creación de la base de datos fue exitosa, debería observarse un Container de Docker corriendo la base de datos llamada postgres



Creación del contenedor principal – Ubicación del Jupyter Notebook

- 1.Descomprima el archivo .zip/.rar en una carpeta de su preferencia.
- 2. Abra la terminal de comandos de Windows
- 3.En terminal, diríjase a la carpeta que fue descomprimida. En mi caso esto lo logro mediante el comando
 - cd C:\Users\steve\OneDrive\004BigData\Tarea3
- 4. Para crear la imagen en Docker, ejecute el siguiente comando
 - 1. docker build --tag bigdata .
- 5. Para ejecutar/correr el contenedor, ejecute el siguiente comando
 - 1. docker run -p 8888:8888 -i -t bigdata /bin/bash

Lo esperado es que el contenedor inicie de manera correcta, y espere instrucciones en modo IDLE:

1. bash-5.0#

6.Inicie la sesión del jupyter notebook con el script

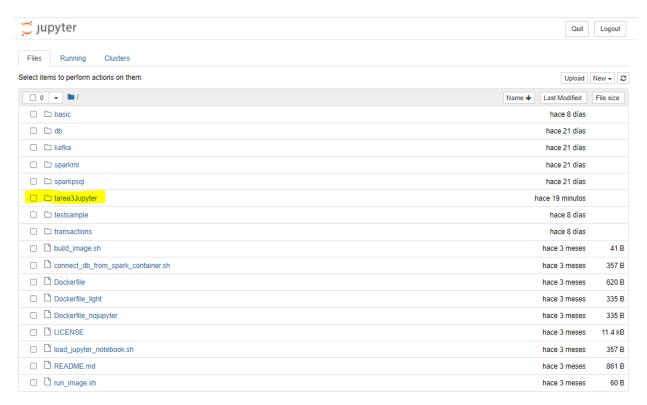
```
1. ./load_jupyter_notebook.sh
```

7. Copie y pegue el link mostrado en la terminal, en la barra de búsqueda del browser compatible con Jupyter notebook. (En mi caso utilizo Google Chrome.

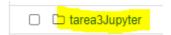
```
[W 02:14:31.664 NotebookApp] No web browser found: could not locate runnable browser.
[C 02:14:31.664 NotebookApp]

To access the notebook, open this file in a browser:
    file://root/.local/share/jupyter/runtime/nbserver-10-open.html
Or copy and paste one of these URLs:
    http://3033c8a98e3c:8888/?token=bbd335e31c3f78b6330f89aa6753fc3c14c15bcc2df83b9f
    or http://127.0.0.1:8888/?token=bbd335e31c3f78b6330f89aa6753fc3c14c15bcc2df83b9f
```

8. Si la sesión de Jupyter inició de manera correcta, debería observarle lo siguiente en la pantalla del buscador.



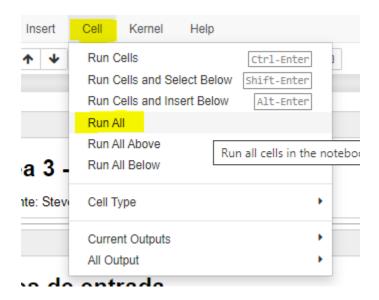
9. Ingrese en la carpeta tarea3Jupyter



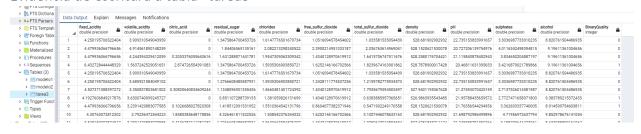
10. Seleccione el document tarea 3 ML. i pynb



11. Ejecute el documento tarea3ML.ipynb, Cell>Run All



Evidencia de escritura a tabla "tarea3"



Evidencia de escritura a tabla "modelo1"



Evidencia de escritura a tabla "modelo2"

- 2	fixed_acidity double precision	volatile_acidity double precision	ottric_acid double precision	residual_sugar double precision	chlorides double precision	free_sulfur_dioxide double precision	total_sulfur_dioxide double precision	density double precision	pH double precision	double precision	alcohol double precision	BinaryQuality integer	prediction double precision	on
-11	2.8717538187486804	2.2338918136413652	2.5667201269214357	3.0498011320735516	0.9773654531654671	2.7724249343198495	2.4319565551869147	524.6550563570299	22.605608921092333	3.893645120961519	12.761953690869658		1	
2	2.986623861949913	1.8988080332732653	0	1.2766608485587931	1.0623537672062071	2.581223214711584	1.9151657872096954	525.3968397231993	23.83628713793308	4.660575161938958	13.137304901521405		1	
3	3.2163642222241644	3.685921584049102	0	1.5603633345051109	1.8484954742042476	0.28680257941239823	0.3343940263382008	526.5519285608033	24.030604507282064	3.7166610760092342	12.011250374658289		1	
4	3.2163642222241644	4.747020166402117	0.2566720165168546	0.9929584471623846	0.9561184142310433	1.147210317649593	2.6751522107056065	525.8207249556892	23.059016116239967	4.837558855255902	12.105087729867288		1	
5	3.4461045824984162	2.79236472544223	0	0.9929584471623846	1.2110832772017412	1.4340128970619912	0.7903858804357473	526.9228202438879	21.76356544294956	2.654757861201547	8.914599754603811		0	
6	3.4461045824984162	2.79236472544223	0	0.9929584471623846	1.2110832772017412	1.4340128970619912	0.7903858804357473	526.9228202438879	21.76356544294956	2.654757861201547	8.914599754603811		0	
7	3.4461045824984162	2.8482119666909442	0	1.4894376284686222	1.3598128663487978	3.8240343921653097	1.6415706747511676	527.1983361705935	22.929471203340643	5.486499767355379	10.040654281466928		1	
8	3.5035396040990325	1.7871133843379294	1.2833600634607178	1.2766608485587931	1.8272485144213462	0.4780042990206637	0.972782622074766	527.0075846578354	21.76356544294956	2.595763296762566	9.477627465489308		0	
9	3.5035396040990325	1.7871133843379294	1.2833600634607178	1.631288871441781	1.508542376344332	2.198819775495053	1.7631685025105133	527.9030430010048	22.152201725944703	5.722478376746645	9.94681692625793		0	
10	3.5035396040990325	3.350837803681002	0.4106752111281232	1.2766608485587931	1.508542376344332	1.3384120372578585	1.3679755622926397	526.3293746021267	21.893111900146057	3.185709644423061	10.322168136909676		0	
11	3.5035396040990325	3.937234169668316	0.5133440330337092	1.9859168943247691	1.7210130822946599	1.2428111774537256	0.8511847943154203	527.8924316585733	23.31810594203861	3.893645120961519	9.571464820698306		0	
12	3.560974625699649	2.8482119666909442	0.7186816385977708	1.3475864700453726	1.1898362382673175	1.4340128970619912	1.033581535954439	526.6473043171823	22.540836464642673	3.362693337740005	10.791357597678298		1	
13	3.560974625699649	3.5183795274271445	1.5913664909303655	1.205735311622123	1.8697425922901938	1.4340128970619912	1.945565244149532	528.2050557024131	22.41129155174335	4.660575161938958	8.726924149277938		0	
14	3.6184099211720513	1.675418901840501	2.4640512667687395	1.2766608485587931	1.4660481401724392	1.7208154764743893	1.8543668733300227	527.6751833711124	22.281746638844027	4.601580245864636	9.665303070815181		1	