

How to Run Scripts?

To run all the scripts make sure you've all sets of data files in the directory named *dfs/* (without forward slash).

The engines names are : [sqlite, mariadb_idx, mariadb, mongo]

To run queries for all engines for 7 runs

Run the following command

```
sudo bash run.sh
```

Then, enter you root administrator password for continue. It'll run for around 22-24 hrs depending on the environment and machine.

The time taken for each query for each engine will appear in directorie \${engine}/ in the file \${engine}_time.txt .

For eg.

for **sqlite** the output(time taken) will appear in **sqlite/sqlite_time.txt**

To get the time for queries for specific engine. we can enter the following command:

```
sudo bash run.sh engine_name
```

For eg. To get the time for **mariadb with indexing**.

```
sudo bash run.sh mariadb_idx
```

To run using specific files on specific engine. we can enter the following command:

```
sudo engine_name/engine_name.sh file_name_A file_name_B
```

For eg. To run using files A-100.csv B-100-3-1.csv on mongodb

```
sudo mongo/mongo.sh A-100.csv B-100-3-1.csv
```

To get the graphs and tables

we can add the following command, make sure you have installed the follwing python (pip3) packages: [matplotlib, numpy, pandas, dataframe_image, uncertainties]

```
python3 draw.py
```

The graphs and table will appear in the **graphs/** directory.

To see the graphs and tables for some engines, you can issue the following command:

```
python3 draw.py [engine_names]
```

For eg. To see the table and graphs for mariadb with indexing and without indexing, use,

```
python3 draw.py mariadb_idx mariadb
```