SQOOP Pyspark with my sql

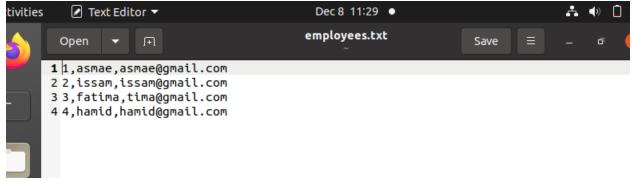
SQOOP

```
smae@asmae-VirtualBox:/opt/lampp$ ls
                                                                               THIRDPARTY
                            manager-linux-x64.run properties.ini
                                                          README.md
                                                                              uninstall.dat
                                                          README-wsrep
                                                          RELEASENOTES
asmae@asmae-VirtualBox:/opt/lampp$ sudo manager-linux-x64.run
[sudo] password for asmae:
sudo: manager-linux-x64.run: command not found
asmae@asmae-VirtualBox:/opt/lampp$ sudo ./manager-linux-x64.run
asmae@asmae-VirtualBox:/opt/lampp$ start-dfs.sh
Starting namenodes on [localhost]
asmae@localhost's password:
localhost: starting namenode, logging to /home/asmae/hadoop-2.7.1/logs/hadoop-asmae
-namenode-asmae-VirtualBox.out
asmae@localhost's password:
localhost: starting datanode, logging to /home/asmae/hadoop-2.7.1/logs/hadoop-asmae
-datanode-asmae-VirtualBox.out
Starting secondary namenodes [0.0.0.0]
asmae@0.0.0.0's password:
0.0.0.0: starting secondarynamenode, logging to /home/asmae/hadoop-2.7.1/logs/hadoop-asmae-secondarynamenode-asmae-VirtualBox.out
 smae@asmae-VirtualBox:/opt/lampp$ jps
28321 DataNode
28535 SecondaryNameNode
28648 Jps
4170 Master
28139 NameNode
         smae-VirtualBox:/opt/lampp$
```

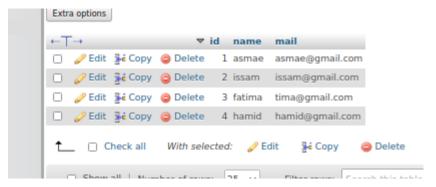
Import (Prendre le contenu de la table employees est le mettre dans le dossier scoop)

```
28139 NameNode
asmae@asmae-VirtualBox:/opt/lampp$ start-yarn.sh
starting yarn daemons
starting resourcemanager, logging to /home/asmae/hadoop-2.7.1/logs/yarn-asmae-resou
rcemanager-asmae-VirtualBox.out
asmae@localhost's password:
localhost: starting nodemanager, logging to /home/asmae/hadoop-2.7.1/logs/yarn-asma
e-nodemanager-asmae-VirtualBox.out
asmae@asmae-VirtualBox:/opt/lampp$ jps
28321 DataNode
28791 ResourceManager
28535 SecondaryNameNode
4170 Master
28139 NameNode
29180 Jps
29119 NodeManager
asmae@asmae-VirtualBox:/opt/lampp$ sqoop import --connect jdbc:mysql://localhost/sp
ark_db --username "root" --password "" --table employees --target-dir /sqoop
Warning: /opt/sqoop/../hbase does not exist! HBase imports will fail. Please set $HBASE_HOME to the root of your HBase installation.
Warning: /opt/sqoop/../hcatalog does not exist! HCatalog jobs will fail.
Please set $HCAT_HOME to the root of your HCatalog installation.
Warning: /opt/sqoop/../accumulo does not exist! Accumulo imports will fail.
Please set $ACCUMULO_HOME to the root of your Accumulo installation.
Warning: /opt/sqoop/../zookeeper does not exist! Accumulo imports will fail.
Please set $ZOOKEEPER_HOME to the root of your Zookeeper installation.
23/12/08 11:02:51 INFO sqoop.Sqoop: Running Sqoop version: 1.4.7 23/12/08 11:02:51 WARN tool.BaseSqoopTool: Setting your password on the command-lin
```

Export (Mettre le contenu de employees.txt dans la base de donnés)

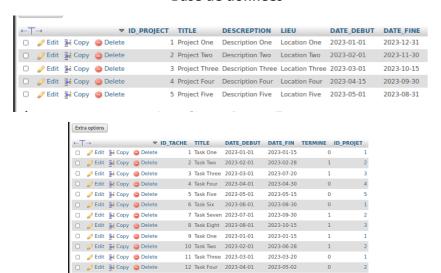


--netp for usage thistructions. asmae@asmae-VirtualBox:~\$ ^C asmae@asmae-VirtualBox:~\$ hdfs dfs -mkdir /sqoop_data asmae@asmae-VirtualBox:~\$ hdfs dfs -put employees.txt /sqoop_data asmae@asmae-VirtualBox:~\$ sqoop export --connect jdbc:mysql://localhost/spark_db -username "root" --password "" --table "employees" --export-dir "/sqoop_data" --inpu
t-fields-terminated-by ',' --input-lines-terminated-by '\n'
Warning: /opt/sqoop/../hbase does not exist! HBase imports will fail. Please set \$HBASE_HOME to the root of your HBase installation. Warning: /opt/sqoop/../hcatalog does not exist! HCatalog jobs will fail. Please set \$HCAT_HOME to the root of your HCatalog installation. Warning: /opt/sqoop/../accumulo does not exist! Accumulo imports will fail. Please set \$ACCUMULO_HOME to the root of your Accumulo installation. Warning: /opt/sqoop/../zookeeper does not exist! Accumulo imports will fail. Please set \$ZOOKEEPER_HOME to the root of your Zookeeper installation. 23/12/08 11:26:26 INFO sqoop.Sqoop: Running Sqoop version: 1.4.7 23/12/08 11:26:26 WARN tool.BaseSqoopTool: Setting your password on the command-lin e is insecure. Consider using -P instead. 23/12/08 11:26:26 INFO manager.MySQLManager: Preparing to use a MySQL streaming res ultset. 23/12/08 11:26:26 INFO tool.CodeGenTool: Beginning code generation Loading class `com.mysql.jdbc.Driver'. This is deprecated. The new driver class is `com.mysql.cj.jdbc.Driver'. The driver is automatically registered via the SPI and manual loading of the driver class is generally unnecessary. 23/12/08 11:26:27 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM



Pyspark

Base de données

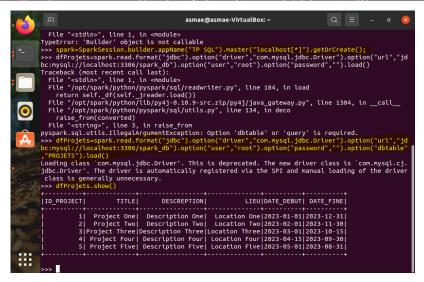


13 Task Five 2023-05-01

2023-05-15

☐

Ø Edit
☐ Copy
☐ Delete



1. Afficher les projets en cours de réalisation.

2. Afficher pour chaque projet, le nombre de tâches dont la durée dépasse un mois. Le format d'affichage est le suivant :

ID PROJET | TITRE | NOMBRE

3. Afficher pour chaque projet les tâches en retard (avec la durée de retard).

```
>>> spark.read.format("jdbc").option("driver","com.mysql.jdbc.Driver").option("url","jdbc:mysql://localhost:3306/spark_db").option("user","root").option("pass word","").option("query","SELECT t.ID_TACHE , p.ID_PROJECT,p.TITLE,t.DATE_FIN,t.TERMINE from PROJETS p JOIN TACHES t WHERE p.ID_PROJECT=t.ID_PROJET and t.TERM INE=0 AND t.DATE_FIN<CURRENT_DATE").load().show()
|ID_TACHE|ID_PROJECT|
                                              TITLE | DATE_FIN|TERMINE|
             11
                                1| Project One|2023-01-15| false|
                                 1| Project One|2023-08-30|
                                                                                  false
                                1| Project One|2023-03-20|
            11
                                                                                   false
                                1| Project One|2023-05-15|
2| Project Two|2023-05-02|
            13|
                                                                                   false
            12|
                                                                                   false
                                2| Project Two|2023-06-30|
            14
                                                                                   false
                                 4|Project Four|2023-04-30|
                                                                                  false
              4
              5
                                 5|Project Five|2023-05-15|
                                                                                   false
```