

# PRÁCTICA Nº 2.9

## Práctica guiada Oozie



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## 1. Definir origen de datos

Los datos se han generado utilizando <https://www.mockaroo.com/>

Los ficheros clientes.sql y compras.csv se encuentran en

/home/cloudera/Desktop/BLQ2-Tarea1

### 1.1. Subir compras.csv a HDFS

```
>hdfs dfs -mkdir blq2-tarea1
```

```
>hdfs dfs -put /home/cloudera/Desktop/BLQ2-Tarea1/compras.csv  
blq2-tarea1
```

```
[cloudera@quickstart ~]$ hdfs dfs -mkdir blq2-tarea1  
[cloudera@quickstart ~]$ hdfs dfs -put /home/cloudera/Downloads/c  
lient.asc clientes.sql compras.csv  
[cloudera@quickstart ~]$ hdfs dfs -put /home/cloudera/Downloads/compras.csv  
[cloudera@quickstart ~]$ hdfs dfs -put /home/cloudera/Downloads/compras.csv blq2-tarea1  
[cloudera@quickstart ~]$
```

### 1.2. Crear tabla clientes y cargar datos

```
>mysql -u root -p (passwd cloudera)
```

```
>source /home/cloudera/Downloads/clientes.sql
```

```
Query OK, 1 row affected (0.00 sec)
```

```
Query OK, 1 row affected (0.00 sec)
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> source /home/cloudera/Downloads/clientes.sql
```

## 2. Tratamiento Sqoop

Origen: tabla clientes de la base de datos prueba

Destino: /user/cloudera/blq2-tarea1/tabla\_clientes

### 2.1. Definir sentencia Sqoop

```
sqoop import \  
--connect jdbc:mysql://localhost/practica_oozie \  
--username root \  
--password cloudera \  
--table clientes \  
--target-dir blq2-tarea1/tabla_clientes
```

```
[cloudera@quickstart ~]$ sqoop import \  
> --connect jdbc:mysql://localhost/practica_oozie \  
> --username root \  
> --password cloudera \  
> --table clientes \  
> --target-dir blq2-tarea1/tabla_clientes  
Warning: /usr/lib/sqoop/./accumulo does not exist! Accumulo imports will fail.  
Please set $ACCUMULO_HOME to the root of your Accumulo installation.  
23/05/03 10:36:19 INFO sqoop.Sqoop: Running Sqoop version: 1.4.6-cdh5.13.0  
23/05/03 10:36:19 WARN tool.BaseSqoopTool: Setting your password on the command-line is insecure. Consider using -P instead.  
23/05/03 10:36:19 INFO manager.MySQLManager: Preparing to use a MySQL streaming resultset.  
23/05/03 10:36:19 INFO tool.CodeGenTool: Beginning code generation  
23/05/03 10:36:20 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM `clientes` AS t LIMIT 1  
23/05/03 10:36:20 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM `clientes` AS t LIMIT 1  
23/05/03 10:36:20 INFO orm.CompilationManager: HADOOP_MAPRED_HOME is /usr/lib/hadoop-mapreduce  
Note: /tmp/sqoop-cloudera/compile/90f8b00cda09e6b30b8a9063d59e9c25/clientes.java uses or overrides a deprecated API.  
Note: Recompile with -Xlint:deprecation for details.  
23/05/03 10:36:21 INFO orm.CompilationManager: Writing jar file: /tmp/sqoop-cloudera/compile/90f8b00cda09e6b30b8a9063d59e9c25/  
clientes.jar  
23/05/03 10:36:21 WARN manager.MySQLManager: It looks like you are importing from mysql.  
23/05/03 10:36:21 WARN manager.MySQLManager: This transfer can be faster! Use the --direct  
23/05/03 10:36:21 WARN manager.MySQLManager: option to exercise a MySQL-specific fast path.  
23/05/03 10:36:21 INFO manager.MySQLManager: Setting zero DATETIME behavior to convertToNull (mysql)  
23/05/03 10:36:21 INFO mapreduce.ImportJobBase: Beginning import of clientes  
23/05/03 10:36:21 INFO Configuration.deprecation: mapred.job.tracker is deprecated. Instead, use mapreduce.jobtracker.address  
23/05/03 10:36:21 INFO Configuration.deprecation: mapred.jar is deprecated. Instead, use mapreduce.job.jar  
23/05/03 10:36:22 INFO Configuration.deprecation: mapred.map.tasks is deprecated. Instead, use mapreduce.job.maps  
23/05/03 10:36:22 INFO client.RMPProxy: Connecting to ResourceManager at /0.0.0.0:8032  
23/05/03 10:36:24 INFO db.DBInputFormat: Using read committed transaction isolation
```

```
Job Counters  
  Launched map tasks=4  
  Other local map tasks=4  
  Total time spent by all maps in occupied slots (ms)=18964  
  Total time spent by all reduces in occupied slots (ms)=0  
  Total time spent by all map tasks (ms)=18964  
  Total vcore-milliseconds taken by all map tasks=18964  
  Total megabyte-milliseconds taken by all map tasks=19419136  
Map-Reduce Framework  
  Map input records=1000  
  Map output records=1000  
  Input split bytes=408  
  Spilled Records=0  
  Failed Shuffles=0  
  Merged Map outputs=0  
  GC time elapsed (ms)=606  
  CPU time spent (ms)=3570  
  Physical memory (bytes) snapshot=883064832  
  Virtual memory (bytes) snapshot=6357393408  
  Total committed heap usage (bytes)=1092616192  
File Input Format Counters  
  Bytes Read=0  
File Output Format Counters  
  Bytes Written=54433  
23/05/03 10:36:41 INFO mapreduce.ImportJobBase: Transferred 53.1572 KB in 19.3736 seconds (2.7438 KB/sec)  
23/05/03 10:36:41 INFO mapreduce.ImportJobBase: Retrieved 1000 records.  
[cloudera@quickstart ~]$
```

### 3. Tratamiento Pig

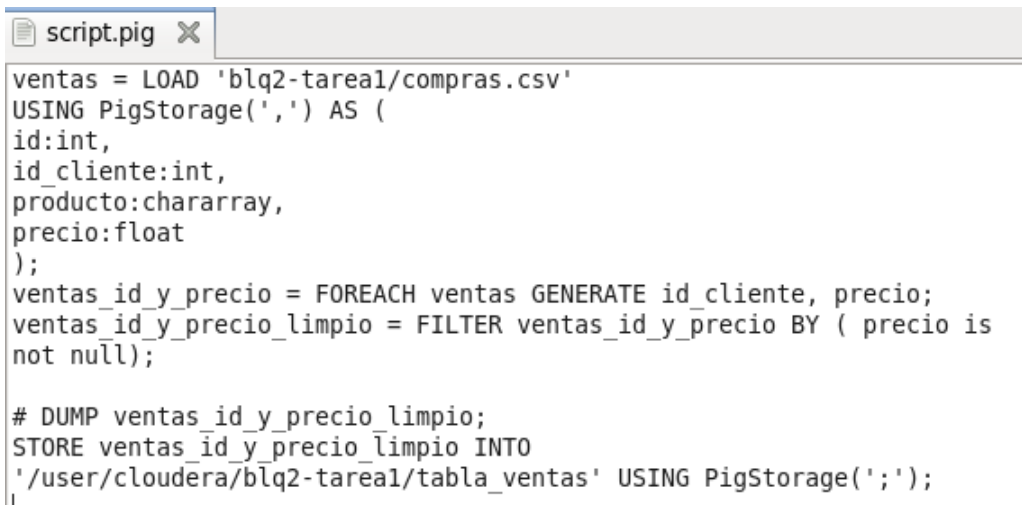
Carga csv -> obtiene columnas id\_cliente y precio -> elimina filas con precio

en blanco -> almacena en blq2-tarea1/tabla\_ventas

#### 3.1. Crear fichero script .pig (LOAD-Tratamientos-STORE)

```
ventas = LOAD 'blq2-tarea1/compras.csv'
USING PigStorage(',') AS (
id:int,
id_cliente:int,
producto:chararray,
precio:float
);
ventas_id_y_precio = FOREACH ventas GENERATE id_cliente, precio;
ventas_id_y_precio_limpio = FILTER ventas_id_y_precio BY ( precio is
not null);

# DUMP ventas_id_y_precio_limpio;
STORE ventas_id_y_precio_limpio INTO
'/user/cloudera/blq2-tarea1/tabla_ventas' USING PigStorage(';');
```



```
script.pig x
ventas = LOAD 'blq2-tarea1/compras.csv'
USING PigStorage(',') AS (
id:int,
id_cliente:int,
producto:chararray,
precio:float
);
ventas_id_y_precio = FOREACH ventas GENERATE id_cliente, precio;
ventas_id_y_precio_limpio = FILTER ventas_id_y_precio BY ( precio is
not null);

# DUMP ventas_id_y_precio_limpio;
STORE ventas_id_y_precio_limpio INTO
'/user/cloudera/blq2-tarea1/tabla_ventas' USING PigStorage(';');
```



Final del comando de ejecución del script.

```
Successfully stored 758 records (6539 bytes) in: "/user/cloudera/blk2-tareal/tabla_ventas"

Counters:
  Total records written : 758
  Total bytes written : 6539
  Spillable Memory Manager spill count : 0
  Total bags proactively spilled: 0
  Total records proactively spilled: 0

Job DAG:
job_1601898044415_0029

2023-05-03 10:52:43.238 [main] WARN  org.apache.pig.backend.hadoop.executionengine.mapReduceLayer.MapReduceLauncher - Encountered Warning FIELD_DISCARDED_TYPE_CONVERSION_FAILED 194 time(s).
2023-05-03 10:52:43.238 [main] INFO  org.apache.pig.backend.hadoop.executionengine.mapReduceLayer.MapReduceLauncher - Success!
[cloudera@quickstart ~]$
```

## Resultado en HDFS

📁 tabla_ventas		🏠 Home	/ user / cloudera / blq2-tarea1 / tabla_ventas / part-m-00000
📄 _SUCCESS	View as binary		
📄 part-m-00000	Edit file	4;41.64	
	Download	34;37.32	
	View file location	31;7.47	
	Refresh	6;46.55	
Last modified		46;26.58	
05/03/2023 5:52 PM		65;48.47	
User		30;25.53	
cloudera		20;17.1	
Group		77;2.7	
cloudera		41;31.31	
Size		100;36.87	
6.39 KB		71;49.68	
Mode		50;32.62	
100644		90;43.37	
		41;46.61	
		39;4.07	
		15;15.4	
		72;13.11	
		33;39.68	
		19;24.63	
		7;36.65	

#### 4. Tratamiento Hive

Origen de información:

/user/cloudera/blq2-tarea1/tabla\_clientes

/user/cloudera/blq2-tarea1/tabla\_ventas

##### 4.1. Script hive

```
create database if not exists blq2tarea1;
use blq2tarea1;
drop table if exists ventas;
create external table ventas (id int, precio float) STORED AS TEXTFILE
LOCATION '/user/cloudera/blq2-tarea1/tabla_ventas';
drop table if exists clientes;
create external table clientes (id int, nombre string, email string, genero
string, ip string) STORED AS TEXTFILE LOCATION
'/user/cloudera/blq2-tarea1/tabla_clientes';
--
INSERT OVERWRITE DIRECTORY '/user/cloudera/blq2-tarea1/resultado'
row format delimited fields terminated by ';' select sum(precio) as
precio_sumado , c.nombre, c.email from ventas as v, clientes as c
where v.id = c.id group by c.id, c.nombre, c.email order by
precio_sumado DESC limit 1;
```



Add a name...

Add a description...

```
1 create database if not exists blq2tarea1;
2 use blq2tarea1;
3 drop table if exists ventas;
4 create external table ventas (id int, precio float) STORED AS TEXTFILE
5 LOCATION '/user/cloudera/blq2-tarea1/tabla_ventas';
6 drop table if exists clientes;
7 create external table clientes (id int, nombre string, email string, genero
8 string, ip string) STORED AS TEXTFILE LOCATION
9 '/user/cloudera/blq2-tarea1/tabla_clientes';
10 --
11 INSERT OVERWRITE DIRECTORY '/user/cloudera/blq2-tarea1/resultado'
12 row format delimited fields terminated by ';' select sum(precio) as
13 precio_sumado , c.nombre, c.email from ventas as v, clientes as c
14 where v.id = c.id group by c.id, c.nombre, c.email order by
15 precio_sumado DESC limit 1;
```

## Ejecución en HUE del Script

```

1 create database if not exists blq2tarea1;
2 use blq2tarea1;
3 drop table if exists ventas;
4 create external table ventas (id int, precio float) row format delimited fields terminated by ',' STORED AS TEXTFILE
5 LOCATION '/user/cloudera/blq2-tarea1/tabla_ventas';
6 drop table if exists clientes;
7 create external table clientes (id int, nombre string, email string, genero
8 string, ip string) row format delimited fields terminated by ',' STORED AS TEXTFILE LOCATION
9 '/user/cloudera/blq2-tarea1/tabla_clientes';
10
11 INSERT OVERWRITE DIRECTORY '/user/cloudera/blq2-tarea1/resultado'
12 row format delimited fields terminated by ',' select sum(precio) as
13 precio_sumado, c.nombre, c.email from ventas as v, clientes as c
14 where v.id = c.id group by c.id, c.nombre, c.email order by

```

INFO : Hadoop job information for Stage-2: number of mappers: 1; number of reducers: 1  
 INFO : 2023-05-03 11:29:26,873 Stage-2 map = 0%, reduce = 0%  
 INFO : 2023-05-03 11:29:33,091 Stage-2 map = 100%, reduce = 0%, Cumulative CPU 1.74 sec  
 INFO : 2023-05-03 11:29:37,257 Stage-2 map = 100%, reduce = 100%, Cumulative CPU 2.82 sec  
 INFO : MapReduce Total cumulative CPU time: 2 seconds 820 msec

✓ Success.

## Resultado en HDFS

resultado

- hive-staging\_hive\_2023-05-03\_10-48-42\_211
- hive-staging\_hive\_2023-05-03\_11-27-00\_242
- hive-staging\_hive\_2023-05-03\_11-29-18\_378
- 000000\_0

View as binary  
 Edit file  
 Download  
 View file location  
 Refresh

Last modified  
 05/03/2023 6:29 PM  
 User  
 cloudera

416.3599967956543;Car;cboycoott1z@dion.ne.jp



## 5. Unir todo con Oozie

5.1. Crear una carpeta en LOCAL y en HDFS (se replicará la información)

5.2. Unir todos los scripts anteriores en subcarpeta bin

Será necesario crear un directorio en HDFS que llamaremos “Practica2-9” y pondremos el “hive-default.xml” a la misma altura que el xml. Este archivo le deberemos de cambiar el nombre de hive-site.xml con el nombre hive-dafault.xml. Este fichero se encuentra en “/etc/hive/conf.dist/hive-site.xml”

Home / user / cloudera / Practica2-9

Name	Size	User	Group	Permissions	Date
.		cloudera	cloudera	drwxrwxrwx	May 03, 2023 11:10 AM
.		cloudera	cloudera	drwxr-xr-x	May 08, 2023 12:21 PM
bin		cloudera	cloudera	drwxr-xr-x	May 08, 2023 11:55 AM
hive-default.xml	1.9 KB	cloudera	cloudera	-rw-r--r--	May 03, 2023 11:53 AM
workflowPractica2-9.xml	2.2 KB	cloudera	cloudera	-rw-r--r--	May 08, 2023 12:21 PM

Show 45 of 3 items Page 1 of 1

Dentro del directorio /bin tendremos los scripts que creamos anteriormente.

Home / user / cloudera / Practica2-9 / bin

Name	Size	User	Group	Permissions	Date
.		cloudera	cloudera	drwxr-xr-x	May 08, 2023 12:21 PM
.		cloudera	cloudera	drwxr-xr-x	May 08, 2023 11:55 AM
consulta_y_resultado_hive.sql	796 bytes	cloudera	cloudera	-rw-r--r--	May 08, 2023 11:55 AM
importacion_ventas_pig.pig	377 bytes	cloudera	cloudera	-rw-r--r--	May 03, 2023 11:53 AM
mysql-jdbc-7.0.0.jar	1.1 MB	cloudera	cloudera	-rw-r--r--	May 03, 2023 11:53 AM

Show 45 of 3 items Page 1 of 1

## 5.3. Definir un workflow

```

<workflow-app name='practica_guiada' xmlns="uri:oozie:workflow:0.1">
  <start to="forking" />
  <fork name="forking">
    <path start="importacion_clientes_sqoop" />
    <path start="importacion_ventas_pig" />
  </fork>
  <action name="importacion_clientes_sqoop">
    <sqoop xmlns="uri:oozie:sqoop-action:0.2">
      <job-tracker>${jobTracker}</job-tracker>
      <name-node>${nameNode}</name-node>
      <prepare>
        <delete
path="${nameNode}/user/cloudera/blq2-tarea1/tabla_clientes" />
      </prepare>
      <configuration>
        <property>

<name>mapred.job.queue.name</name>
          <value>${queueName}</value>
        </property>
      </configuration>
      <command>import --connect
jdbc:mysql://localhost/practica_oozie --username root --password cloudera
--table clientes --target-dir /user/cloudera/blq2-tarea1/tabla_clientes -m
1</command>
      </sqoop>
      <ok to="joining" />
      <error to="kill" />
    </action>
    <action name="importacion_ventas_pig">
      <pig>
        <job-tracker>${jobTracker}</job-tracker>
        <name-node>${nameNode}</name-node>
        <prepare>
          <delete
path="${nameNode}/user/cloudera/blq2-tarea1/tabla_ventas" />
        </prepare>
        <configuration>
          <property>

<name>mapred.job.queue.name</name>
            <value>root.default</value>
          </property>
        </configuration>
      </pig>
    </action>
  </workflow-app>

```

```
<script>
    bin/importacion_ventas_pig.pig
</script>
</pig>
<ok to="joining" />
<error to="kill" />
</action>
<join name="joining" to="consulta_y_resultado_hive" />
<action name="consulta_y_resultado_hive">
    <hive xmlns="uri:oozie:hive-action:0.2">
        <job-tracker>${jobTracker}</job-tracker>
        <name-node>${nameNode}</name-node>
        <configuration>
            <property>

<name>mapred.job.queue.name</name>
                <value>${queueName}</value>
            </property>
        </property>
        <name>oozie.hive.default</name>

<value>${nameNode}/user/cloudera/Practica2-9/hive-default.xml</value>
            </property>
        </configuration>
        <script>
            bin/consulta_y_resultado_hive.sql
        </script>
    </hive>
    <ok to='end' />
    <error to='kill' />
</action>
<kill name='kill'>
    <message>
        Se rompio, mensaje de error
        [${wf:errorMessage(wf:lastErrorNode())}]
    </message>
</kill>
    <end name='end' />
</workflow-app>
```



#### 5.4. Definir jobPractica2-9.properties

```
nameNode=hdfs://localhost:8020
jobTracker=localhost:8032
queueName=default
oozie.use.system.libpath=true
oozie.wf.application.path=${nameNode}/user/${user.name}/Practica2-9/workflowPractica2-9.xml
```

#### 5.5. Lanzar Oozie

```
export OOZIE_URL="http://localhost:11000/oozie"
oozie job -config jobPractica2-9.properties -run
```

```

[cloudera@quickstart map-reduce]$ oozie job -config jobPractica2-9.properties -run
job: 00000003-230419025730046-oozie-oozi-W
[cloudera@quickstart map-reduce]$ █

```

## Posibles problemas y soluciones

### Fichero SQL

En este fichero me he encontrado el error de codificación ya que el workflow no identifica el carácter “;” y se debe de reemplazar por los caracteres “\073” que es el mismo carácter pero con la codificación correspondiente.

```
Home / user / cloudera / Practica2-9 / bin / consulta_y_resultado_hive.sql Page 1

create database if not exists blq2tarea1;
use blq2tarea1;
drop table if exists ventas;
create external table ventas (id int, precio float) row format delimited fields terminated by '\073' STORED AS TEXTFILE
LOCATION '/user/cloudera/blq2-tarea1/tabla_ventas';
drop table if exists clientes;
create external table clientes (id int, nombre string, email string, genero
string, ip string)row format delimited fields terminated by ',' STORED AS TEXTFILE LOCATION
'/user/cloudera/blq2-tarea1/tabla_clientes';
--
INSERT OVERWRITE DIRECTORY '/user/cloudera/blq2-tarea1/resultado'
row format delimited fields terminated by '\073' select sum(precio) as
precio_sumado , c.nombre, c.email from ventas as v, clientes as c
where v.id = c.id group by c.id, c.nombre, c.email order by
precio_sumado DESC limit 1;
```

### Fichero Workflow.xml

En este fichero debemos agregar al workflow una propiedad en la configuración de la cola de los procesos para que no se sature y funcione correctamente.

Para ello agregaremos el siguiente comando ya sea en la parte del workflow de pig como de Hive. Pero solo en una de ellas.

Lo que estamos haciendo es mandar ese job a otra cola diferente al job anterior, en este caso lo mandamos a la cola del usuario root.

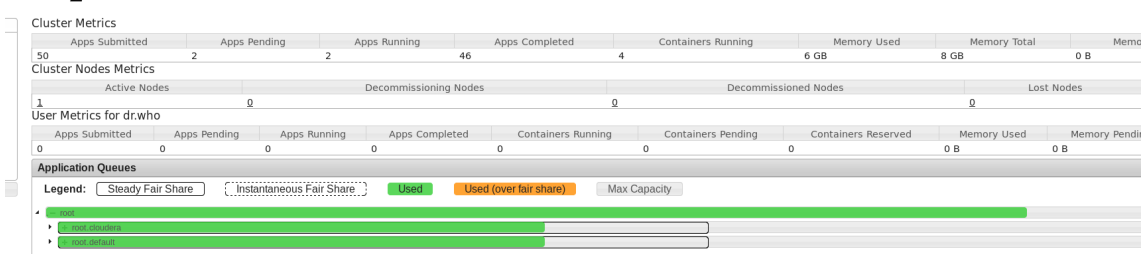
```
<configuration>
  <property>
    <name>mapred.job.queue.name</name>
    <value>root.default</value>
  </property>
</configuration>
```

```

</action>
<action name="importacion_ventas_pig">
  <pig>
    <job-tracker>${jobTracker}</job-tracker>
    <name-node>${nameNode}</name-node>
    <prepare>
      <delete path="${nameNode}/user/cloudera/blq2-tarea1/tabla_ventas" />
    </prepare>
    <configuration>
      <property>
        <name>mapred.job.queue.name</name>
        <value>root.default</value>
      </property>
    </configuration>
    <script>
      bin/importacion_ventas_pig.pig
    </script>
  </pig>
</action>

```

Podemos observar cómo se están realizando los dos trabajos de forma paralela en el panel de control de yarn.



También nos sucederá que el proceso se queda procesando continuamente y esto sucede por la memoria asignada a los procesos. Para solucionar este problema tendremos que dirigirnos al fichero de configuración de yarn, para asignarle una nueva configuración.

El fichero de configuración se encuentra en : "etc/hadoop/conf.pseudo/yarn-site.xml"

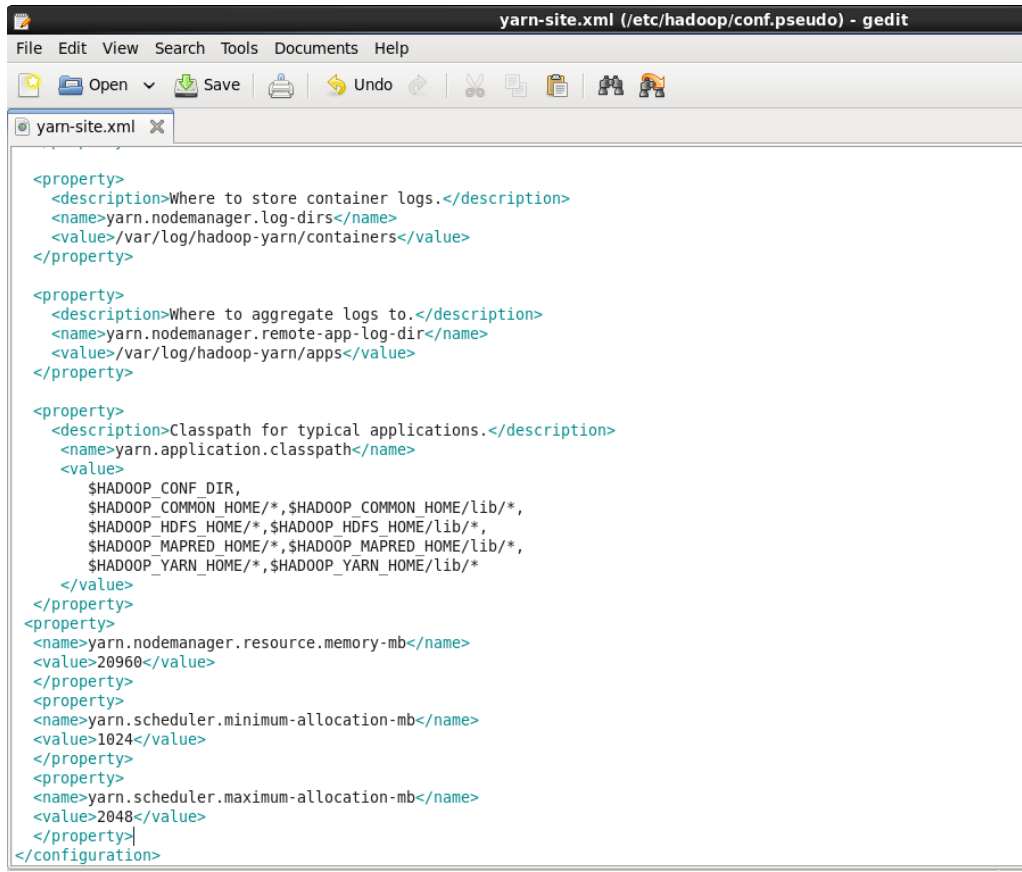
Una vez localizado el fichero será necesario agregar estas líneas de comando.

```

<property>
  <name>yarn.nodemanager.resource.memory-mb</name>
  <value>20960</value>
</property>
<property>
  <name>yarn.scheduler.minimum-allocation-mb</name>
  <value>1024</value>
</property>
</property>

```

```
<name>yarn.scheduler.maximum-allocation-mb</name>
<value>2048</value>
</property>
```



```
yarn-site.xml (/etc/hadoop/conf.pseudo) - gedit
File Edit View Search Tools Documents Help
Open Save Undo
yarn-site.xml
<property>
  <description>Where to store container logs.</description>
  <name>yarn.nodemanager.log-dirs</name>
  <value>/var/log/hadoop-yarn/containers</value>
</property>

<property>
  <description>Where to aggregate logs to.</description>
  <name>yarn.nodemanager.remote-app-log-dir</name>
  <value>/var/log/hadoop-yarn/apps</value>
</property>

<property>
  <description>Classpath for typical applications.</description>
  <name>yarn.application.classpath</name>
  <value>
    $HADOOP_CONF_DIR,
    $HADOOP_COMMON_HOME/*,$HADOOP_COMMON_HOME/lib/*,
    $HADOOP_HDFS_HOME/*,$HADOOP_HDFS_HOME/lib/*,
    $HADOOP_MAPRED_HOME/*,$HADOOP_MAPRED_HOME/lib/*,
    $HADOOP_YARN_HOME/*,$HADOOP_YARN_HOME/lib/*
  </value>
</property>
<property>
  <name>yarn.nodemanager.resource.memory-mb</name>
  <value>20960</value>
</property>
<property>
  <name>yarn.scheduler.minimum-allocation-mb</name>
  <value>1024</value>
</property>
<property>
  <name>yarn.scheduler.maximum-allocation-mb</name>
  <value>2048</value>
</property>
</configuration>
```

## Resultado Final

Observamos el job y los subprocessos que genera con sus respectivos estados.

Job (Name: practica\_guiada/JobId: 0000000-230508124210163-oozie-oozi-W)

Job Info Job Definition Job Configuration Job Log Job DAG

Job Id: 0000000-230508124210163-oozie-oozi-W

Name: practica\_guiada

App Path: hdfs://localhost:8020/user/cloudera/Practica2-9/workflowPractica2-9.xml

Run: 0

Status: SUCCEEDED

User: cloudera

Group:

Parent Coord:

Create Time: Mon, 08 May 2023 19:45:29 GMT

Start Time: Mon, 08 May 2023 19:45:29 GMT

Last Modified: Mon, 08 May 2023 19:47:17 GMT

End Time: Mon, 08 May 2023 19:47:17 GMT

Actions

Action Id	Name	Type	Status	Transition	StartTime	EndTime
1 0000000-230508124210163-oozie-oozi-W@start	:start:	:START:	OK	forking	Mon, 08 May 2023 19:45:29 G...	Mon, 08 May 2023 19:45:29 G...
2 0000000-230508124210163-oozie-oozi-W@forking	forking	:FORK:	OK	*	Mon, 08 May 2023 19:45:29 G...	Mon, 08 May 2023 19:45:29 G...
3 0000000-230508124210163-oozie-oozi-W@importacion_...	importacion...	pig	OK	joining	Mon, 08 May 2023 19:45:29 G...	Mon, 08 May 2023 19:46:13 G...
4 0000000-230508124210163-oozie-oozi-W@importacion_...	importacion...	sqoop	OK	joining	Mon, 08 May 2023 19:45:29 G...	Mon, 08 May 2023 19:46:09 G...
5 0000000-230508124210163-oozie-oozi-W@joining	joining	:JOIN:	OK	consulta_y_...	Mon, 08 May 2023 19:46:14 G...	Mon, 08 May 2023 19:46:14 G...
6 0000000-230508124210163-oozie-oozi-W@consulta_y_r...	consulta_y_...	hive	OK	end	Mon, 08 May 2023 19:46:14 G...	Mon, 08 May 2023 19:47:17 G...
7 0000000-230508124210163-oozie-oozi-W@end	end	:END:	OK		Mon, 08 May 2023 19:47:17 G...	Mon, 08 May 2023 19:47:17 G...

Nos dirigimos a la carpeta “blq2-tarea1/resultado/0000\_0” en este archivo podemos observar el resultado final del workflow.

HUE

Query

Search data and saved documents...

File Browser

resultado

000000\_0

View as binary

Edit file

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Last modified: 05/08/2023 7:47 PM

User: cloudera

Home / user / cloudera / blq2-tarea1 / resultado / 000000\_0

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