ESPECIALIZACIÓN BIG DATA CTIC

Grupo Paperos

Universidad Nacional de Ingeniería Centro de Tecnologías de Información y Comunicaciones

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Schedule

1 Creando Tablas En GCP

- 2 Creando Tablas En Cloudera
 - Configuración inicial
 - Cloudera Manager
 - Creando Tablas
 - Generando Reporte



Creando Tablas En GCP



Creando DDBB

Figure: Elaboración propia.



Visualizando tabla

```
0: jdbc:hive2://> select * from paperos.DIM_CATEGORIA;

0K

| dim_categoria.id_categoria | dim_categoria.nom_categoria |
| ID_CATEGORIA | NOM_CATEGORIA |
| 1 | LACTEOS |
| 2 | LIMPIEZA |
| 3 | ABARROTES |
| 4 | LICORES |
| 5 | CARNES |
| 6 rows selected (2.373 seconds)
| 9: jdbc:hive2://>
```

Figure: Elaboración propia.



Verificando tablas

```
lpfernando@cluster-a51f-m:~$ hdfs dfs -ls /user/main/bd/paperos
Found 9 items
drwxr-xr-x
             - lpfernando hadoop
                                          0 2020-10-15 20:56 /user/main/bd/paperos/DIM CATEGORIA
             - lpfernando hadoop
                                          0 2020-10-15 21:05 /user/main/bd/paperos/DIM CLIENTE
drwxr-xr-x
             - lpfernando hadoop
drwxr-xr-x
                                          0 2020-10-15 21:05 /user/main/bd/paperos/DIM DEPARTAMENTO
drwxr-xr-x
             - lpfernando hadoop
                                          0 2020-10-15 21:05 /user/main/bd/paperos/DIM PRODUCTO
drwxr-xr-x
             - lpfernando hadoop
                                          0 2020-10-15 21:02 /user/main/bd/paperos/DIM PROVINCIA
             - lpfernando hadoop
                                          0 2020-10-15 21:03 /user/main/bd/paperos/DIM_SEDE
drwxr-xr-x
drwxr-xr-x

    lpfernando hadoop

                                          0 2020-10-15 21:04 /user/main/bd/paperos/DIM TIEMPO
             - lpfernando hadoop
                                          0 2020-10-15 21:04 /user/main/bd/paperos/DIM VENDEDOR
drwxr-xr-x
             - lpfernando hadoop
                                          0 2020-10-15 21:06 /user/main/bd/paperos/FACT VENTA
drwxr-xr-x
lpfernando@cluster-a51f-m:~$
```

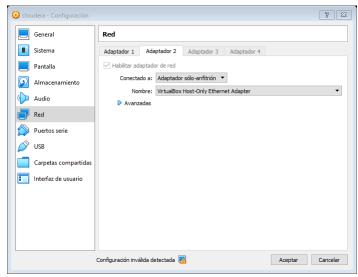
Figure: Elaboración propia.



Creando Tablas En Cloudera



Configuración Cloudera





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Figure: Elaboración propia.

Transfiriendo Datasets

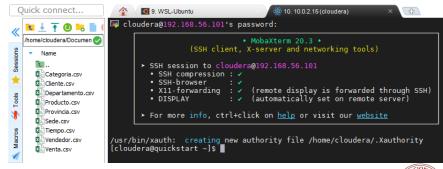


Figure: Elaboración propia.



Comprobando Datasets

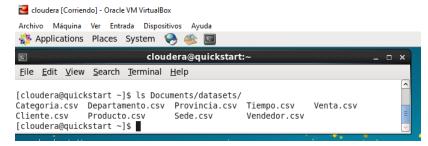


Figure: Elaboración propia.



Obteniendo Autenticación

Password: cloudera

```
[cloudera@quickstart ~]$ sudo /home/cloudera/cloudera-manager --force --express
[QuickStart] Shutting down CDH services via init scripts...
[QuickStart] Disabling CDH services on boot...
[QuickStart] Starting Cloudera Manager daemons...
[QuickStart] Waiting for Cloudera Manager API...
[QuickStart] Configuring deployment...
[QuickStart] Deploying client configuration...
[QuickStart] Starting Cloudera Management Service...
[QuickStart] Enabling Cloudera Manager daemons on boot...

Success! You can now log into Cloudera Manager from the QuickStart VM's browser:

http://quickstart.cloudera:7180

Username: cloudera
```

Figure: Elaboración propia.



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Activando herramientas



Figure: Elaboración propia.



Consultando Tabla

Figure: Elaboración propia.



Verificando Creación DDBB

```
0: jdbc:hive2://> show databases;
OK

| database_name |
| default |
| papacloud |
| paperos |
| database_name |
```

Figure: Elaboración propia.



Mostrando tablas

```
[cloudera@quickstart ~]$ hadoop fs -ls /user/cloudera/papacloud
Found 9 items
drwxr-xr-x
             - cloudera cloudera
                                          0 2020-10-16 16:11 /user/cloudera/papacloud/DIM CATEGORIA
             - cloudera cloudera
                                          0 2020-10-16 16:17 /user/cloudera/papacloud/DIM CLIENTE
drwxr-xr-x
drwxr-xr-x
             - cloudera cloudera
                                          0 2020-10-16 16:18 /user/cloudera/papacloud/DIM DEPARTAMENT
drwxr-xr-x

    cloudera cloudera

                                          0 2020-10-16 16:18 /user/cloudera/papacloud/DIM PRODUCTO
drwxr-xr-x
             - cloudera cloudera
                                          0 2020-10-16 16:19 /user/cloudera/papacloud/DIM PROVINCIA
drwxr-xr-x
             - cloudera cloudera
                                          0 2020-10-16 16:19 /user/cloudera/papacloud/DIM SEDE
drwxr-xr-x
             - cloudera cloudera
                                          0 2020-10-16 16:19 /user/cloudera/papacloud/DIM TIEMPO
drwxr-xr-x
             - cloudera cloudera
                                          0 2020-10-16 16:20 /user/cloudera/papacloud/DIM VENDEDOR
             - cloudera cloudera
                                          0 2020-10-16 16:20 /user/cloudera/papacloud/FACT VENTA
drwxr-xr-x
[cloudera@quickstart ~]$
```

Figure: Elaboración propia.



Instalando ODBC

Cloudera ODBC Driver for Apache Hive DSN Setup	
Data Source Name:	HiveConnection
Description:	
Hive Server Type:	Hive Server 2 ∨
Service Discovery Mode:	No Service Discovery
Host(s):	192.168.56.101
Port:	10000
Database:	default
ZooKeeper Namespace:	
Authentication	
Mechanism:	User Name ∨
Realm:	
Host FQDN:	_HOST
Service Name:	hive
	✓ Canonicalize Principal FQDN
	Delegate Kerberos Credentials
User Name:	doudera
Password:	
	Save Password (Encrypted)



Mostrando tablas en PowerBI

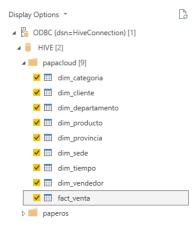


Figure: Elaboración propia.



Visualización Reporte

