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Cloudera

CCA175
CCA Spark and Hadoop Developer

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Question: 1

Problem Scenario 1:
You have been given MySQL DB with following details.
user=retail_dba
password=cloudera
database=retail_db
table=retail_db.categories
jdbc URL = jdbc:mysql://quickstart:3306/retail_db
Please accomplish following activities.
1. Connect MySQL DB and check the content of the tables.
2. Copy "retaildb.categories" table to hdfs, without specifying directory name.
3. Copy "retaildb.categories" table to hdfs, in a directory name "categories_target".
4. Copy "retaildb.categories" table to hdfs, in a warehouse directory name "categories_warehouse".

Answer:

Solution :
Step 1 : Connecting to existing MySQL Database mysql --user=retail_dba --password=cloudera retail_db
Step 2 : Show all the available tables show tables;
Step 3 : View/Count data from a table in MySQL select count(1} from categories;
Step 4 : Check the currently available data in HDFS directory hdfs dfs -Is
Step 5 : Import Single table (Without specifying directory).
sqoop import --connect jdbc:mysql://quickstart:3306/retail_db -username=retail_dba -password=cloudera -table=categories
Note : Please check you dont have space between before or after '=' sign. Sqoop uses the MapReduce framework to copy data from RDBMS to hdfs
Step 6 : Read the data from one of the partition, created using above command, hdfs dfs -catxategories/part-m-00000
Step 7 : Specifying target directory in import command (We are using number of mappers =1, you can change accordingly) sqoop import -connect jdbc:mysql://quickstart:3306/retail_db -username=retail_dba -password=cloudera ~table=categories-target-dir=categortes_target --m 1
Step 8 : Check the content in one of the partition file.
hdfs dfs -cat categories_target/part-m-00000
Step 9 : Specifying parent directory so that you can copy more than one table in a specified target directory. Command to specify warehouse directory.
sqoop import -.-connect jdbc:mysql://quickstart:3306/retail_db --username=retail dba -password=cloudera -table=categories -warehouse-dir=categories_warehouse --m 1

Question: 2

Problem Scenario 2 :
There is a parent organization called "ABC Group Inc", which has two child companies named Tech Inc and MPTech.

Both companies employee information is given in two separate text file as below. Please do the following activity for employee details.

Tech Inc.txt

1,Alok,Hyderabad
2,Krish,Hongkong
3,Jyoti,Mumbai
4,Atul,Banglore
5,Ishan,Gurgaon

MPTech.txt

6,John,Newyork
7,alp2004,California
8,tellme,Mumbai
9,Gagan21,Pune
10,Mukesh,Chennai

1. Which command will you use to check all the available command line options on HDFS and How will you get the Help for individual command.
2. Create a new Empty Directory named Employee using Command line. And also create an empty file named in it Techinc.txt
3. Load both companies Employee data in Employee directory (How to override existing file in HDFS).
4. Merge both the Employees data in a Single tile called MergedEmployee.txt, merged tiles should have new line character at the end of each file content.
5. Upload merged file on HDFS and change the file permission on HDFS merged file,so that owner and group member can read and write, other user can read the file.
6. Write a command to export the individual file as well as entire directory from HDFS to local file System.

Answer:

Solution :

Step 1 : Check All Available command hdfs dfs

Step 2 : Get help on Individual command hdfs dfs -help get

Step 3 : Create a directory in HDFS using named Employee and create a Dummy file in it called e.g. Techinc.txt hdfs dfs -mkdir Employee

Now create an emplty file in Employee directory using Hue.

Step 4 : Create a directory on Local file System and then Create two files, with the given data in problems.

Step 5 : Now we have an existing directory with content in it, now using HDFS command line , overrid this existing Employee directory. While copying these files from local file System to HDFS. cd /home/cloudera/Desktop/ hdfs dfs -put -f Employee

Step 6 : Check All files in directory copied successfully hdfs dfs -Is Employee

Step 7 : Now merge all the files in Employee directory, hdfs dfs -getmerge -nl Employee MergedEmployee.txt

Step 8 : Check the content of the file. cat MergedEmployee.txt

Step 9 : Copy merged file in Employeed directory from local file ssytem to HDFS. hdfs dfs -put MergedEmployee.txt Employee/

Step 10 : Check file copied or not. hdfs dfs -Is Employee

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Step 11 : Change the permission of the merged file on HDFS hdfs dfs -chmpd 664 Employee/MergedEmployee.txt
Step 12 : Get the file from HDFS to local file system, hdfs dfs -get Employee Employee_hdfs

Question: 3

Problem Scenario 3: You have been given MySQL DB with following details.
user=retail_dba
password=cloudera
database=retail_db
table=retail_db.categories
jdbc URL = jdbc:mysql://quickstart:3306/retail_db
Please accomplish following activities.
1. Import data from categories table, where category=22 (Data should be stored in categories subset)
2. Import data from categories table, where category>22 (Data should be stored in categories_subset_2)
3. Import data from categories table, where category between 1 and 22 (Data should be stored in categories_subset_3)
4. While importing catagories data change the delimiter to '|' (Data should be stored in categories_subset_S)
5. Importing data from catagories table and restrict the import to category_name,category id columns only with delimiter as '|'
6. Add null values in the table using below SQL statement ALTER TABLE categories modify category_department_id int(11); INSERT INTO categories values (eO.NULL.'TESTING');
7. Importing data from catagories table (In categories_subset_17 directory) using '|' delimiter and categoryjd between 1 and 61 and encode null values for both string and non string columns.
8. Import entire schema retail_db in a directory categories_subset_all_tables

Answer:

Solution:
Step 1: Import Single table (Subset data} Note: Here the ' is the same you find on - key
sqoop import --connect jdbc:mysql://quickstart:3306/retail_db --username=retail_dba -password=cloudera -table=categories ~warehouse-dir=categories_subset --where \'category_id\'=22 --m 1
Step 2 : Check the output partition
hdfs dfs -cat categoriessubset/categories/part-m-00000
Step 3 : Change the selection criteria (Subset data)
sqoop import --connect jdbc:mysql://quickstart:3306/retail_db --username=retail_dba -password=cloudera -table=categories ~warehouse-dir=categories_subset_2 --where \'category_id\'\>22 -m 1
Step 4 : Check the output partition
hdfs dfs -cat categories_subset_2/categories/part-m-00000
Step 5 : Use between clause (Subset data)

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sqoop import --connect jdbc:mysql://quickstart:3306/retail_db --username=retail_dba -password=cloudera -table=categories ~warehouse-dir=categories_subset_3 --where "\'category_id\' between 1 and 22" --m 1
Step 6 : Check the output partition
hdfs dfs -cat categories_subset_3/categories/part-m-00000
Step 7 : Changing the delimiter during import.
sqoop import --connect jdbc:mysql://quickstart:3306/retail_db --username=retail dba -password=cloudera -table=categories -warehouse-dir=:categories_subset_6 --where "/'categoryjd /' between 1 and 22" -fields-terminated-by='|' -m 1
Step 8 : Check the.output partition
hdfs dfs -cat categories_subset_6/categories/part-m-00000
Step 9 : Selecting subset columns
sqoop import --connect jdbc:mysql://quickstart:3306/retail_db --username=retail_dba -password=cloudera -table=categories --warehouse-dir=categories subset col -where "/'category id/' between 1 and 22" -fields-terminated-by=T -columns=category name,category id --m 1
Step 10 : Check the output partition
hdfs dfs -cat categories_subset_col/categories/part-m-00000
Step 11 : Inserting record with null values (Using mysql} ALTER TABLE categories modify category_department_id int(11); INSERT INTO categories values ^NULL/TESTING'); select" from categories;
Step 12 : Encode non string null column
sqoop import --connect jdbc:mysql://quickstart:3306/retail_db --username=retail dba -password=cloudera -table=categories --warehouse-dir=categortes_subset_17 -where "\"category_id\" between 1 and 61" -fields-terminated-by=,|' --null-string-N' -null-non-string=,N' --m 1
Step 13 : View the content
hdfs dfs -cat categories_subset_17/categories/part-m-00000
Step 14 : Import all the tables from a schema (This step will take little time)
sqoop import-all-tables -connect jdbc:mysql://quickstart:3306/retail_db --username=retail_dba -password=cloudera -warehouse-dir=categories_si
Step 15 : View the contents
hdfs dfs -Is categories_subset_all_tables
Step 16 : Cleanup or back to originals.
delete from categories where categoryid in (59,60);
ALTER TABLE categories modify category_department_id int(11) NOTNULL;
ALTER TABLE categories modify category_name varchar(45) NOT NULL;
desc categories;

Question: 4

Problem Scenario 4: You have been given MySQL DB with following details.
user=retail_dba
password=cloudera
database=retail_db
table=retail_db.categories
jdbc URL = jdbc:mysql://quickstart:3306/retail_db
Please accomplish following activities.

Import Single table categories(Subset data} to hive managed table , where category_id between 1 and 22

Answer:

Solution :
Step 1 : Import Single table (Subset data)
sqoop import --connect jdbc:mysql://quickstart:3306/retail_db -username=retail_dba -password=cloudera -table=categories -where "\'category_id\' between 1 and 22" --hive-import --m 1
Note: Here the ' is the same you find on ~ key
This command will create a managed table and content will be created in the following directory.
/user/hive/warehouse/categories
Step 2 : Check whether table is created or not (In Hive)
show tables;
select * from categories;

Question: 5

Problem Scenario 5 : You have been given following mysql database details.
user=retail_dba
password=cloudera
database=retail_db
jdbc URL = jdbc:mysql://quickstart:3306/retail_db
Please accomplish following activities.
1. List all the tables using sqoop command from retail_db
2. Write simple sqoop eval command to check whether you have permission to read database tables or not.
3. Import all the tables as avro files in /user/hive/warehouse/retail cca174.db
4. Import departments table as a text file in /user/cloudera/departments.

Answer:

Solution:
Step 1 : List tables using sqoop
sqoop list-tables --connect jdbc:mysql://quickstart:330G/retail_db --username retail dba -password cloudera
Step 2 : Eval command, just run a count query on one of the table.
sqoop eval \
--connect jdbc:mysql://quickstart:3306/retail_db \
-username retail_dba \
-password cloudera \
--query "select count(1) from ordeMtems"
Step 3 : Import all the tables as avro file.
sqoop import-all-tables \
-connect jdbc:mysql://quickstart:3306/retail_db \

-username=retail_dba \
-password=cloudera \
-as-avrodatafile \
-warehouse-dir=/user/hive/warehouse/retail stage.db \
-ml
Step 4 : Import departments table as a text file in /user/cloudera/departments
sqoop import \
-connect jdbc:mysql://quickstart:3306/retail_db \
-username=retail_dba \
-password=cloudera \
-table departments \
-as-textfile \
-target-dir=/user/cloudera/departments
Step 5 : Verify the imported data.
hdfs dfs -Is /user/cloudera/departments
hdfs dfs -Is /user/hive/warehouse/retailstage.db
hdfs dfs -Is /user/hive/warehouse/retail_stage.db/products

Question: 6

Problem Scenario 6 : You have been given following mysql database details as well as other info.
user=retail_dba
password=cloudera
database=retail_db
jdbc URL = jdbc:mysql://quickstart:3306/retail_db
Compression Codec : org.apache.hadoop.io.compress.SnappyCodec
Please accomplish following.
1. Import entire database such that it can be used as a hive tables, it must be created in default schema.
2. Also make sure each tables file is partitioned in 3 files e.g. part-00000, part-00002, part-00003
3. Store all the Java files in a directory called java_output to evalute the further

Answer:

Solution :
Step 1 : Drop all the tables, which we have created in previous problems. Before implementing the solution.
Login to hive and execute following command.
show tables;
drop table categories;
drop table customers;
drop table departments;
drop table employee;
drop table ordeMtems;
drop table orders;
drop table products;
show tables;

Check warehouse directory. hdfs dfs -Is /user/hive/warehouse
Step 2 : Now we have cleaned database. Import entire retail db with all the required parameters as problem statement is asking.

```
sqoop import-all-tables \
-m3\
-connect jdbc:mysql://quickstart:3306/retail_db \
--username=retail_dba \
-password=cloudera \
-hive-import \
--hive-overwrite \
-create-hive-table \
--compress \
--compression-codec org.apache.hadoop.io.compress.SnappyCodec \
--outdir java_output
```

Step 3 : Verify the work is accomplished or not.
a. Go to hive and check all the tables hive

```
show tables;
select count(1) from customers;
```

b. Check the-warehouse directory and number of partitions,

```
hdfs dfs -Is /user/hive/warehouse
hdfs dfs -Is /user/hive/warehouse/categories
```

c. Check the output Java directory.

```
Is -Itr java_output/
```

Question: 7

Problem Scenario 7 : You have been given following mysql database details as well as other info.

```
user=retail_dba
password=cloudera
database=retail_db
jdbc URL = jdbc:mysql://quickstart:3306/retail_db
```

Please accomplish following.
1. Import department tables using your custom boundary query, which import departments between 1 to 25.
2. Also make sure each tables file is partitioned in 2 files e.g. part-00000, part-00002
3. Also make sure you have imported only two columns from table, which are department_id,department_name

Answer:

Solutions :
Step 1 : Clean the hdfs tile system, if they exists clean out.

```
hadoop fs -rm -R departments
hadoop fs -rm -R categories
hadoop fs -rm -R products
hadoop fs -rm -R orders
```

hadoop fs -rm -R order_itmes
hadoop fs -rm -R customers
Step 2 : Now import the department table as per requirement.
sqoop import \
-connect jdbc:mysql://quickstart:3306/retail_db \
--username=retail_dba \
-password=cloudera \
-table departments \
-target-dir /user/cloudera/departments \
-m2\
-boundary-query "select 1, 25 from departments" \
-columns department_id,department_name
Step 3 : Check imported data.
hdfs dfs -ls departments
hdfs dfs -cat departments/part-m-00000
hdfs dfs -cat departments/part-m-00001

Question: 8

Problem Scenario 8 : You have been given following mysql database details as well as other info.
Please accomplish following.
1. Import joined result of orders and order_items table join on orders.order_id = order_items.order_item_order_id.
2. Also make sure each tables file is partitioned in 2 files e.g. part-00000, part-00002
3. Also make sure you use orderid columns for sqoop to use for boundary conditions.

Answer:

Solutions:
Step 1 : Clean the hdfs file system, if they exists clean out.
hadoop fs -rm -R departments
hadoop fs -rm -R categories
hadoop fs -rm -R products
hadoop fs -rm -R orders
hadoop fs -rm -R order_items
hadoop fs -rm -R customers
Step 2 : Now import the department table as per requirement.
sqoop import \
--connect jdbc:mysql://quickstart:3306/retail_db \
-username=retail_dba \
-password=cloudera \
-query="select' from orders join order_items on orders.orderid = order_items.order_item_order_id where \SCONDITlONS" \
-target-dir /user/cloudera/order_join \
-split-by order_id \
--num-mappers 2

Step 3 : Check imported data.
hdfs dfs -Is order_join
hdfs dfs -cat order_join/part-m-00000
hdfs dfs -cat order_join/part-m-00001

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