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➢ **Vendor: Cloudera**

➢ **Exam Code: CCA175**

➢ **Exam Name: Spark and Hadoop Developer Exam - Performance Based Scenarios**

➢ **Questions 01 – Question 10**

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QUESTION NO: 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: See the explanation for Step by Step Solution and configuration.

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QUESTION NO: 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: See the explanation for Step by Step Solution and configuration.

QUESTION NO: 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: See the explanation for Step by Step Solution and configuration.

QUESTION NO: 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: See the explanation for Step by Step Solution and configuration.

QUESTION NO: 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: See the explanation for Step by Step Solution and configuration.

QUESTION NO: 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: See the explanation for Step by Step Solution and configuration.

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QUESTION NO: 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: See the explanation for Step by Step Solution and configuration.

QUESTION NO: 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: See the explanation for Step by Step Solution and configuration.

QUESTION NO: 9

Problem Scenario 9 : 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 departments table in a directory.
2. Again import departments table same directory (However, directory already exist hence it should not overrride and append the results)
3. Also make sure your results fields are terminated by '|' and lines terminated by '\n\

Answer: See the explanation for Step by Step Solution and configuration.

QUESTION NO: 10

Problem Scenario 10 : 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. Create a database named hadoopexam and then create a table named departments in it, with following fields. department_id **int,**
department_name string

e.g. location should be hdfs://quickstart.cloudera:8020/user/hive/warehouse/hadoopexam.db/departments

2. Please import data in existing table created above from retaidb.departments into hive table hadoopexam.departments.

3. Please import data in a non-existing table, means while importing create hive table named hadoopexam.departments_new

Answer: See the explanation for Step by Step Solution and configuration.

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