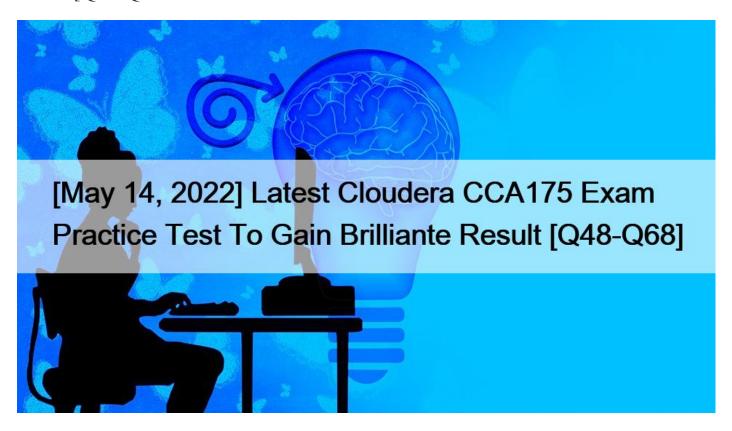
[May 14, 2022 Latest Cloudera CCA175 Exam Practice Test To Gain Brilliante Result [Q48-Q68



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NEW QUESTION 48

CORRECT TEXT

Problem Scenario 57: You have been given below code snippet.

val a = sc.parallelize(1 to 9, 3) operation

Write a correct code snippet for operationl which will produce desired output, shown below.

Array[(String, Seq[lnt])] = Array((even, ArrayBuffer(2, 4, G, 8)), (odd, ArrayBuffer(1, 3, 5, 7,

9)))

See the explanation for Step by Step Solution and configuration.

Explanation:

Solution:

 $a.group \\ By(x => \{if\ (x\ \%\ 2 == 0)\ \&\#8220; even \&\#8221;\ else\ \&\#8220; odd \&\#8221;\ \}).collect$

NEW QUESTION 49

CORRECT TEXT

Problem Scenario 39: You have been given two files

spark16/file1.txt

1,9,5

2,7,4

3,8,3

spark16/file2.txt

1,g,h

2 ,i,j

```
3 ,k,1
Load these two tiles as Spark RDD and join them to produce the below results
(1,((9,5),(g,h)))
(2, ((7,4), (i,j))) (3, ((8,3), (k,l)))
And write code snippet which will sum the second columns of above joined results (5+4+3).
See the explanation for Step by Step Solution and configuration.
Explanation:
Solution:
Step 1: Create tiles in hdfs using Hue.
Step 2: Create pairRDD for both the files.
val one = sc.textFile("spark16/file1.txt").map{
_.split(",",-1) match {
case Array(a, b, c) => (a, (b, c))
} }
val two = sc.textFHe(Mspark16/file2.txt").map{
_.split('7-1) match {
case Array(a, b, c) \Rightarrow (a, (b, c))
} }
Step 3 : Join both the RDD. val joined = one.join(two)
Step 4: Sum second column values.
```

NEW QUESTION 50

val sum = joined.map {

case (_, ((_, num2), (_, _))) => num2.tolnt

CORRECT TEXT

}.reduce(_ + _)

Problem Scenario 85: In Continuation of previous question, please accomplish following activities.

- 1. Select all the columns from product table with output header as below. productID AS ID code AS Code name AS Description price AS 'Unit Price'
- 2. Select code and name both separated by ' -' and header name should be Product

Description '.

- 3. Select all distinct prices.
- 4 . Select distinct price and name combination.
- 5 . Select all price data sorted by both code and productID combination.
- 6. count number of products.
- 7. Count number of products for each code.

See the explanation for Step by Step Solution and configuration.

Explanation:

Solution:

Step 1 : Select all the columns from product table with output header as below. productID

AS ID code AS Code name AS Description price AS "Unit Price'

val results = sqlContext.sql(……SELECT productID AS ID, code AS Code, name AS

Description, price AS Unit Price' FROM products ORDER BY ID"""

results.show()

Step 2: Select code and name both separated by ' -' and header name should be " Product

Description.

 $val\ results = sqlContext.sql(\&\#8230;\&\#8230;SELECT\ CONCAT(code,\&\#8217;\ -\&\#8216;,\ name)\ AS\ Product\ Description,\ price\ FROM\ products\&\#8221;\&\#8221;\&\#8221;\)\ results.showQ$

Step 3: Select all distinct prices.

val results = sqlContext.sql(……SELECT DISTINCT price AS Distinct Price" FROM products……) results.show()

Step 4 : Select distinct price and name combination.

 $val\ results = sqlContext.sql(\&\#8230;\&\#8230;SELECT\ DISTINCT\ price,\ name\ FROM\ products\&\#8221;\&\#8221;\&\#8221;\)\ results.$ showQ

Step 5: Select all price data sorted by both code and productID combination.

val results = sqlContext.sql('…...SELECT' FROM products ORDER BY code, productID'…...) results.show()

Step 6 : count number of products.

val results = sqlContext.sql(……SELECT COUNT(') AS 'Count' FROM products……) results.show()

Step 7: Count number of products for each code.

val results = sqlContext.sql(……SELECT code, COUNT('} FROM products GROUP BY code……) results. showQ val results = sqlContext.sql(……SELECT code, COUNT('} AS count FROM products

GROUP BY code ORDER BY count DESC……)

results. showQ

NEW QUESTION 51

CORRECT TEXT

Problem Scenario 61: You have been given below code snippet.

 $val\ a = sc.parallelize(List(\&\#8220;dog\&\#8221;,\&\#8220;salmon\&\#8221;,\&\#8220;salmon\&\#8221;,\&\#8220;rat\&\#8221;,\&\#8220;elephant\&\#8221;),\ 3)\ val\ b = a.keyBy(_.length)\ val\ c = sc.parallelize(List(\&\#8220;dog\&\#8221;,\&\#8221;cat\&\#8221;,\&\#8221;gnu\&\#8221;,\&\#8221;salmon\&\#8221;,\&\#8221;rabbit\&\#8221;,\&\#8221;turkey\&\#8221;,\&\#8221;wolf\&\#8221;,\&\#8221;bear\&\#8221;,\&\#8221;beak\#8221;),\ 3)\ val\ d = c.keyBy(_.length)\ operationl$

Write a correct code snippet for operationl which will produce desired output, shown below.

Array[(lnt, (String, Option[String])}] = Array((6,(salmon,Some(salmon))),

(6,(salmon,Some(rabbit))),

(6,(salmon,Some(turkey))), (6,(salmon,Some(salmon))), (6,(salmon,Some(rabbit))),

(6,(salmon,Some(turkey))), (3,(dog,Some(dog))), (3,(dog,Some(cat))),

(3,(dog,Some(dog))), (3,(dog,Some(bee))), (3,(rat,Some(dogg)), (3,(rat,Some(cat)j),

 $(3,\!(rat.Some(gnu))).\ (3,\!(rat,\!Some(bee))),\ (8,\!(elephant,\!None)))$

See the explanation for Step by Step Solution and configuration.

Explanation:

Solution:

b.leftOuterJoin(d).collect

leftOuterJoin [Pair]: Performs an left outer join using two key-value RDDs. Please note that the keys must be generally comparable to make this work keyBy: Constructs two- component tuples (key-value pairs) by applying a function on each data item. Trie result of the function becomes the key and the original data item becomes the value of the newly created tuples.

NEW QUESTION 52

CORRECT TEXT

Problem Scenario 86: In Continuation of previous question, please accomplish following activities.

- 1 . Select Maximum, minimum, average, Standard Deviation, and total quantity.
- 2 . Select minimum and maximum price for each product code.
- 3. Select Maximum, minimum, average, Standard Deviation, and total quantity for each product code, hwoever make sure Average and Standard deviation will have maximum two decimal values.
- 4. Select all the product code and average price only where product count is more than or equal to 3.
- 5. Select maximum, minimum, average and total of all the products for each code. Also produce the same across all the products. See the explanation for Step by Step Solution and configuration.

Explanation:

Solution:

Step 1: Select Maximum, minimum, average, Standard Deviation, and total quantity.

val results = sqlContext.sql('…...SELECT MAX(price) AS MAX, MIN(price) AS MIN,

AVG(price) AS Average, STD(price) AS STD, SUM(quantity) AS total_products FROM products … …) results. showQ

Step 2 : Select minimum and maximum price for each product code.

val results = sqlContext.sql(……SELECT code, MAX(price) AS Highest Price', MIN(price)

AS Lowest Price'

FROM products GROUP BY code……)

results. showQ

Step 3 : Select Maximum, minimum, average, Standard Deviation, and total quantity for each product code, hwoever make sure Average and Standard deviation will have maximum two decimal values.

val results = sqlContext.sql(……SELECT code, MAX(price), MIN(price),

CAST(AVG(price) AS DECIMAL(7,2)) AS Average', CAST(STD(price) AS DECIMAL(7,2)) AS 'Std Dev SUM(quantity) FROM products GROUP BY code……) results. showQ Step 4: Select all the product code and average price only where product count is more than or equal to 3. val results = sqlContext.sql(……SELECT code AS Product Code', COUNTf) AS Count', CAST(AVG(price) AS DECIMAL(7,2)) AS Average ' FROM products GROUP BY code HAVING Count >=3″M") results. showQ Step 5: Select maximum, minimum, average and total of all the products for each code. Also produce the same across all the products. val results = sqlContext.sql(" " " SELECT code, MAX(price), MIN(pnce), CAST(AVG(price) AS DECIMAL(7,2)) AS Average ', SUM(quantity)-FROM products GROUP BY code WITH ROLLUP""") results. show() **NEW QUESTION 53 CORRECT TEXT** Problem Scenario 12: 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 table in retailedb with following definition.
CREATE table departments_new (department_id int(11), department_name varchar(45), created_date T1MESTAMP DEFAULT NOW());
2 . Now isert records from departments table to departments_new
3 . Now import data from departments_new table to hdfs.
4 . Insert following 5 records in departmentsnew table. Insert into departments_new values(110, "Civil" , null); Insert into departments_new values(111, "Mechanical" , null);
Insert into departments_new values(112, "Automobile" , null); Insert into departments_new values(113, "Pharma" , null);
Insert into departments_new values(114, "Social Engineering" , null);
5. Now do the incremental import based on created_date column. See the explanation for Step by Step Solution and configuration.
Explanation:
Solution:
Step 1 : Login to musql db
mysql –user=retail_dba -password=cloudera
show databases;
use retail db; show tables;
Step 2 : Create a table as given in problem statement.
CREATE table departments_new (department_id int(11), department_name varchar(45), createddate T1MESTAMP DEFAULT NOW()); show tables;
Step 3: isert records from departments table to departments_new insert into departments_new select a.", null from departments a;

Step 4 : Import data from departments new table to hdfs.

```
sqoop import
-connect jdbc:mysql://quickstart:330G/retail_db
~ username=retail_dba
-password=cloudera
-table departments_new
–target-dir /user/cloudera/departments_new
–split-by departments
Stpe 5: Check the imported data.
hdfs dfs -cat /user/cloudera/departmentsnew/part"
Step 6: Insert following 5 records in departmentsnew table.
Insert into departments new values(110, "Civil" , null);
Insert into departments_new values(111, "Mechanical" , null);
Insert into departments_new values(112, " Automobile " , null);
Insert into departments_new values(113, "Pharma" , null);
Insert into departments_new values(114, "Social Engineering" , null);
commit;
Stpe 7: Import incremetal data based on created_date column.
sqoop import
-connect jdbc:mysql://quickstart:330G/retaiI_db
-username=retail_dba
-password=cloudera
–table departments_new
-target-dir /user/cloudera/departments_new
-append
-check-column created date
```

-incremental lastmodified
-split-by departments
-last-value "2016-01-30 12:07:37.0"
Step 8 : Check the imported value.
hdfs dfs -cat /user/cloudera/departmentsnew/part"
NEW QUESTION 54
CORRECT TEXT
Problem Scenario 23: You have been given log generating service as below.
Start_logs (It will generate continuous logs)
Tail_logs (You can check, what logs are being generated)
Stop_logs (It will stop the log service)
Path where logs are generated using above service : /opt/gen_logs/logs/access.log
Now write a flume configuration file named flume3.conf , using that configuration file dumps logs in HDFS file system in a directory called flumeflume3/% $Y/\%$ m/% d/% H/% M
Means every minute new directory should be created). Please us the interceptors to provide timestamp information, if message header does not have header info.
And also note that you have to preserve existing timestamp, if message contains it. Flume channel should have following property as well. After every 100 message it should be committed, use non-durable/faster channel and it should be able to hold maximum 1000 events. See the explanation for Step by Step Solution and configuration.
Explanation:
Solution:
Step 1 : Create flume configuration file, with below configuration for source, sink and channel.
#Define source, sink, channel and agent,
agent1 .sources = source1
agent1.sinks = sink1
agent1.channels = channel1

```
# Describe/configure source1
agent1 .sources.source1.type = exec
agentl.sources.source1.command = tail -F /opt/gen logs/logs/access.log
#Define interceptors
agent1 .sources.source1.interceptors=i1
agent1 .sources.source1.interceptors.i1.type=timestamp
agent1 .sources.source1.interceptors.i1.preserveExisting=true
## Describe sink1
agent1 .sinks.sink1.channel = memory-channel
agent1.sinks.sink1.type = hdfs
agent1 .sinks.sink1.hdfs.path = flume3/% Y/% m/% d/% H/% M
agent1 .sinks.sjnkl.hdfs.fileType = Data Stream
# Now we need to define channel1 property.
agent1.channels.channel1.type = memory
agent1.channels.channel1.capacity = 1000
agent1.channels.channel1.transactionCapacity = 100
# Bind the source and sink to the channel
Agent1.sources.source1.channels = channel1
agent1.sinks.sink1.channel = channel1
Step 2: Run below command which will use this configuration file and append data in hdfs.
Start log service using : start_logs
Start flume service:
flume-ng agent -conf /home/cloudera/flumeconf -conf-file
/home/cloudera/flumeconf/flume3.conf -DfIume.root.logger=DEBUG,INFO,console -name agent1
Wait for few mins and than stop log service.
```

stop 1	ogs
--------	-----

NEW QUESTION 55

CORRECT TEXT

Problem Scenario 31: You have given following two files

- 1 . Content.txt: Contain a huge text file containing space separated words.
- 2 . Remove.txt: Ignore/filter all the words given in this file (Comma Separated).

Write a Spark program which reads the Content.txt file and load as an RDD, remove all the words from a broadcast variables (which is loaded as an RDD of words from Remove.txt).

And count the occurrence of the each word and save it as a text file in HDFS.

Content.txt

Hello this is ABCTech.com

This is TechABY.com

Apache Spark Training

This is Spark Learning Session

Spark is faster than MapReduce

Remove.txt

Hello, is, this, the

See the explanation for Step by Step Solution and configuration.

Explanation:

Solution:

Step 1: Create all three files in hdfs in directory called spark2 (We will do using Hue).

However, you can first create in local filesystem and then upload it to hdfs

Step 2: Load the Content.txt file

val content = sc.textFile("spark2/Content.txt") //Load the text file

Step 3: Load the Remove.txt file

val remove = sc.textFile("spark2/Remove.txt") //Load the text file

Step 4: Create an RDD from remove, However, there is a possibility each word could have trailing spaces, remove those whitespaces as well. We have used two functions here flatMap, map and trim.

val removeRDD= remove.flatMap(x=> x.splitf',")).map(word=>word.trim)//Create an array of words

Step 5: Broadcast the variable, which you want to ignore

val bRemove = sc.broadcast(removeRDD.collect().toList) // It should be array of Strings

Step 6: Split the content RDD, so we can have Array of String. val words = content.flatMap(line => line.split(" "))

Step 7: Filter the RDD, so it can have only content which are not present in "Broadcast

Variable". val filtered = words.filter{case (word) => !bRemove.value.contains(word)}

Step 8 : Create a PairRDD, so we can have (word,1) tuple or PairRDD. val pairRDD = filtered.map(word => (word,1))

Step 9 : Nowdo the word count on PairRDD. val wordCount = pairRDD.reduceByKey(_ + _)

Step 10: Save the output as a Text file.

wordCount.saveAsTextFile("spark2/result.txt")

NEW QUESTION 56

CORRECT TEXT

Problem Scenario 17: 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

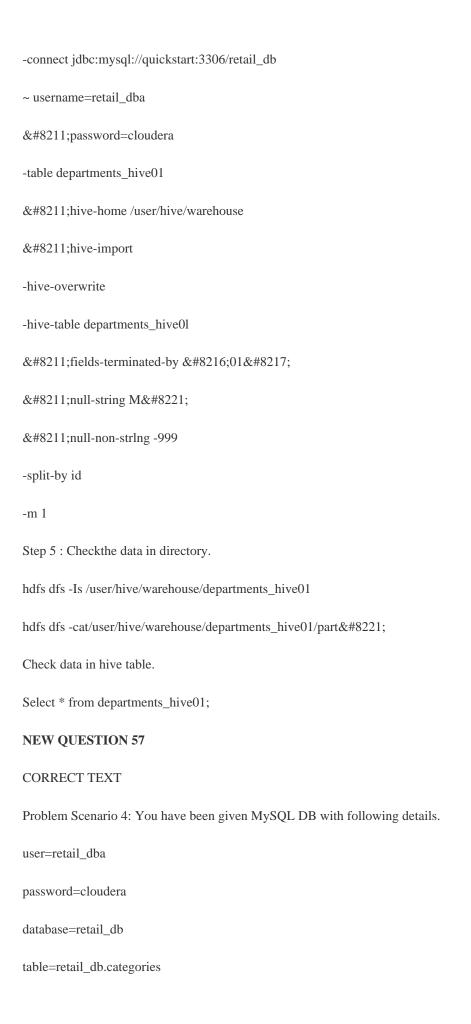
Please accomplish below assignment.

- 1. Create a table in hive as below, create table departments_hiveOl(department_id int, department_name string, avg_salary int);
- 2. Create another table in mysql using below statement CREATE TABLE IF NOT EXISTS departments_hive01(id int, department name varchar(45), avg_salary int);
- 3. Copy all the data from departments table to departments_hive01 using insert into departments_hive01 select a.*, null from departments a;

Also insert following records as below

insert into departments hive01 values(777, "Not known",1000);

insert into departments_hive01 values(8888, null,1000); insert into departments_hive01 values(666, null,1100); 4. Now import data from mysql table departments_hive01 to this hive table. Please make sure that data should be visible using below hive command. Also, while importing if null value found for department_name column replace it with " " (empty string) and for id column with -999 select * from departments_hive; See the explanation for Step by Step Solution and configuration. Explanation: Solution: Step 1: Create hive table as below. hive show tables; create table departments_hive01(department_id int, department_name string, avgsalary int); Step 2: Create table in mysql db as well. mysql -user=retail_dba -password=cloudera use retail db CREATE TABLE IF NOT EXISTS departments hive01(id int, department name varchar(45), avg_salary int); show tables: step 3: Insert data in mysql table. insert into departments_hive01 select a.*, null from departments a; check data inserts select' from departments_hive01; Now iserts null records as given in problem, insert into departments hive01 values(777, "Not known",1000); insert into departments_hive01 values(8888, null,1000); insert into departments_hive01 values(666, null,1100); Step 4: Now import data in hive as per requirement. sqoop import



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 See the explanation for Step by Step Solution and configuration. Explanation: 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; **NEW QUESTION 58** CORRECT TEXT Problem Scenario 62: You have been given below code snippet. val a = sc.parallelize(List("dogM, "tiger", "lion", "cat", #8220; panther #8221;, #8220; eagle #8221;), 2) val b = a.map(x => (x.length, x)) operation 1 Write a correct code snippet for operationl which will produce desired output, shown below. Array[(Int, String)] = Array((3,xdogx), (5,xtigerx), (4,xlionx), (3,xcatx), (7,xpantherx),(5,xeaglex)) See the explanation for Step by Step Solution and configuration. Explanation: Solution: b.mapValuesf'x" + _ + "x").collect

mapValues [Pair]: Takes the values of a RDD that consists of two-component tuples, and applies the provided function to transform each value. Tlien, it forms newtwo-componend tuples using the key and the transformed value and stores them in a new RDD.

NEW QUESTION 59

CORRECT TEXT

Problem Scenario 58: You have been given below code snippet.

val a = sc.parallelize(List("dog", "tiger", "lion", "cat", "spider", "eagle"), 2) val b = a.keyBy(_.length) operation1

Write a correct code snippet for operationl which will produce desired output, shown below.

Array[(lnt, Seq[String])] = Array((4,ArrayBuffer(lion)), (6,ArrayBuffer(spider)),

(3,ArrayBuffer(dog, cat)), (5,ArrayBuffer(tiger, eagle}}}} See the explanation for Step by Step Solution and configuration.

Explanation:

Solution:

b.groupByKey.collect

groupByKey [Pair]

Very similar to groupBy, but instead of supplying a function, the key-component of each pair will automatically be presented to the partitioner.

Listing Variants

def groupByKeyQ: RDD[(K, lterable[V]}]

def groupByKey(numPartittons: Int): RDD[(K, lterable[V])]

def groupByKey(partitioner: Partitioner): RDD[(K, lterable[V])]

NEW QUESTION 60

CORRECT TEXT

Problem Scenario 68: You have given a file as below.

spark75/f ile1.txt

File contain some text. As given Below

spark75/file1.txt

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Apache Hadoop is an open-source software framework written in Java for distributed storage and distributed processing of very large data sets on computer clusters built from commodity hardware. All the modules in Hadoop are designed with a fundamental assumption that hardware failures are common and should be automatically handled by the framework

The core of Apache Hadoop consists of a storage part known as Hadoop Distributed File

System (HDFS) and a processing part called MapReduce. Hadoop splits files into large blocks and distributes them across nodes in a cluster. To process data, Hadoop transfers packaged code for nodes to process in parallel based on the data that needs to be processed.

his approach takes advantage of data locality nodes manipulating the data they have access to to allow the dataset to be processed faster and more efficiently than it would be in a more conventional supercomputer architecture that relies on a parallel file system where computation and data are distributed via high-speed networking

For a slightly more complicated task, lets look into splitting up sentences from our documents into word bigrams. A bigram is pair of successive tokens in some sequence.

We will look at building bigrams from the sequences of words in each sentence, and then try to find the most frequently occuring ones.

The first problem is that values in each partition of our initial RDD describe lines from the file rather than sentences. Sentences may be split over multiple lines. The glom() RDD method is used to create a single entry for each document containing the list of all lines, we can then join the lines up, then resplit them into sentences using "." as the separator, using flatMap so that every object in our RDD is now a sentence.

A bigram is pair of successive tokens in some sequence. Please build bigrams from the sequences of words in each sentence, and then try to find the most frequently occuring ones.

See the explanation for Step by Step Solution and configuration.

Explanation:

Solution:

Step 1 : Create all three tiles in hdfs (We will do using Hue). However, you can first create in local filesystem and then upload it to hdfs.

Step 2 : The first problem is that values in each partition of our initial RDD describe lines from the file rather than sentences. Sentences may be split over multiple lines.

The glom() RDD method is used to create a single entry for each document containing the list of all lines, we can then join the lines up, then resplit them into sentences using "." as the separator, using flatMap so that every object in our RDD is now a sentence.

sentences = sc.textFile("spark75/file1.txt") .glom()

map(lambda x: " ".join(x)) .flatMap(lambda x: x.spllt("."))

Step 3: Now we have isolated each sentence we can split it into a list of words and extract the word bigrams from it. Our new RDD contains tuples containing the word bigram (itself a tuple containing the first and second word) as the first value and the number 1 as

```
the second value. bigrams = sentences.map(lambda x:x.split())
  .flatMap(lambda x: [((x[i],x[i+1]),1)for i in range(0,len(x)-1)])
Step 4: Finally we can apply the same reduceByKey and sort steps that we used in the wordcount example, to count up the bigrams
and sort them in order of descending frequency. In reduceByKey the key is not an individual word but a bigram.
freq_bigrams = bigrams.reduceByKey(lambda x,y:x+y)
map(lambda x:(x[1],x[0]))
sortByKey(False)
freq_bigrams.take(10)
NEW QUESTION 61
CORRECT TEXT
Problem Scenario 47: You have been given below code snippet, with intermediate output.
val z = \text{sc.parallelize}(\text{List}(1,2,3,4,5,6), 2)
// lets first print out the contents of the RDD with partition labels
def myfunc(index: Int, iter: lterator[(lnt)]): lterator[String] = {
iter.toList.map(x =  "[partID:" + index + ", val: " + x + "]").iterator
}
//In each run, output could be different, while solving problem assume belowm output only.
z.mapPartitionsWithIndex(myfunc).collect
res28: Array[String] = Array([partlD:0, val: 1], [partlD:0, val: 2], [partlD:0, val: 3], [partlD:1, val: 4], [partlD:1, val: S], [partlD:1, val: 4], [partlD:1, val: 4], [partlD:1, val: 5], [partlD:1, val: 4], [partlD:1, val: 4
val: 6])
Now apply aggregate method on RDD z, with two reduce function, first will select max value in each partition and second will add
all the maximum values from all partitions.
Initialize the aggregate with value 5. hence expected output will be 16.
z.aggregate(5)(math.max(\_, J, \_ + \_)
NEW QUESTION 62
```

Problem Scenario 15: You have been given following mysql database details as well as other info.

CORRECT TEXT

user=retail_dba
password=cloudera
database=retail_db
jdbc URL = jdbc:mysql://quickstart:3306/retail_db
Please accomplish following activities.
1. In mysql departments table please insert following record. Insert into departments values(9999, '"Data Science"1);
2. Now there is a downstream system which will process dumps of this file. However, system is designed the way that it can process only files if fields are enlcosed in(') single quote and separate of the field should be (-) and line needs to be terminated by : (colon).
3. If data itself contains the " (double quote } than it should be escaped by .
4. Please import the departments table in a directory called departments_enclosed by and file should be able to process by downstream system. See the explanation for Step by Step Solution and configuration.
Explanation:
Solution:
Step 1 : Connect to mysql database.
mysql –user=retail_dba -password=cloudera
show databases; use retail_db; show tables;
Insert record
Insert into departments values(9999, ' " Data Science " ');
select" from departments;
Step 2 : Import data as per requirement.
sqoop import
-connect jdbc:mysql;//quickstart:3306/retail_db
~ username=retail_dba
–password=cloudera
-table departments

-target-dir /user/cloudera/departments_enclosedby -enclosed-by V -escaped-by \ -fields-terminated-by–' -lines-terminated-by: Step 3: Check the result. hdfs dfs -cat/user/cloudera/departments_enclosedby/part" **NEW QUESTION 63** CORRECT TEXT Problem Scenario 82: You have been given table in Hive with following structure (Which you have created in previous exercise). productid int code string name string quantity int price float Using SparkSQL accomplish following activities. 1. Select all the products name and quantity having quantity <= 2000 2. Select name and price of the product having code as 'PEN' 3. Select all the products, which name starts with PENCIL 4. Select all products which "name" begins with 'P followed by any two characters, followed by space, followed by zero or more characters See the explanation for Step by Step Solution and configuration. Explanation: Solution: Step 1 : Copy following tile (Mandatory Step in Cloudera QuickVM) if you have not done it. sudo su root cp /usr/lib/hive/conf/hive-site.xml /usr/lib/sparkVconf/ Step 2: Now start spark-shell Step 3; Select all the products name and quantity having quantity <= 2000 val results = sqlContext.sql(……SELECT name, quantity FROM products WHERE quantity <= 2000……) results.showQ Step 4: Select name and price of the product having code as 'PEN'

```
val results = sqlContext.sql(……SELECT name, price FROM products WHERE code =
'PEN…….)
results. showQ
Step 5: Select all the products, which name starts with PENCIL
val results = sqlContext.sql(……SELECT name, price FROM products WHERE upper(name) LIKE
'PENCIL%…….} results. showQ
Step 6: select all products which "name" begins with 'P', followed by any two characters, followed
by space, followed byzero or more characters
— "name" begins with 'P', followed by any two characters,
– followed by space, followed by zero or more characters
val results = sqlContext.sql(……SELECT name, price FROM products WHERE name LIKE
'P_ % …….)
results. show()
NEW QUESTION 64
CORRECT TEXT
Problem Scenario 74: You have been given MySQL DB with following details.
user=retail_dba
password=cloudera
database=retail_db
table=retail_db.orders
table=retail_db.order_items
jdbc URL = jdbc:mysql://quickstart:3306/retail_db
Columns of order table : (orderjd , order_date , ordercustomerid, order status)
Columns of orderjtems table: (order_item_td, order_item_order_id,
order_item_product_id,
order item quantity, order item subtotal, order item product price)
```

Please accomplish following activities.

- 1. Copy "retaildb.orders" and "retaildb.orderjtems" table to hdfs in respective directory p89_orders and p89_order_items .
- 2. Join these data using orderid in Spark and Python
- 3. Now fetch selected columns from joined data Orderld, Order date and amount collected on this order.
- 4. Calculate total order placed for each date, and produced the output sorted by date. See the explanation for Step by Step Solution and configuration.

Explanation:

Solution:

Step 1: Import Single table.

sqoop import –connect jdbc:mysql://quickstart:3306/retail_db -username=retail_dba – password=cloudera -table=orders –target-dir=p89_orders – -m1 sqoop import –connect jdbc:mysql://quickstart:3306/retail_db -username=retail_dba – password=cloudera -table=order_items ~target-dir=p89_ order items -m 1

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 2: Read the data from one of the partition, created using above command, hadoopfs

-cat p89 orders/part-m-00000 hadoop fs -cat p89 order items/part-m-00000

Step 3 : Load these above two directory as RDD using Spark and Python (Open pyspark terminal and do following). orders = sc.textFile("p89_orders") orderitems = sc.textFile("p89_order_items")

Step 4: Convert RDD into key value as (orderjd as a key and rest of the values as a value)

#First value is orderid

ordersKeyValue = orders.map(lambda line: (int(line.split(",")[0]), line))

#Second value as an Orderjd

orderltemsKeyValue = orderltems.map(lambda line: (int(line.split(",")[1]), line))

Step 5: Join both the RDD using orderjd

joinedData = orderltemsKeyValue.join(ordersKeyValue)

#print the joined data

tor line in joinedData.collect():

```
print(line)
Format of joinedData as below.
[Orderld, 'All columns from orderltemsKeyValue', 'All columns from orders Key Value']
Step 6: Now fetch selected values Orderld, Order date and amount collected on this order.
revenuePerOrderPerDay = joinedData.map(lambda row: (row[0]( row[1][1].split(",")[1](
f!oat(row[1][0].split('M}[4]}}
#printthe result
for line in revenuePerOrderPerDay.collect():
print(line)
Step 7: Select distinct order ids for each date.
#distinct(date,order_id)
distinctOrdersDate = joinedData.map(lambda row: row[1][1].split('")[1] + "," +
str(row[0])).distinct() for line in distinctOrdersDate.collect(): print(line)
Step 8: Similar to word count, generate (date, 1) record for each row. newLineTuple = distinctOrdersDate.map(lambda line:
(line.split(",")[0], 1))
Step 9: Do the count for each key(date), to get total order per date. totalOrdersPerDate = newLineTuple.reduceByKey(lambda a, b:
a + b
#print results
for line in totalOrdersPerDate.collect():
print(line)
step 10 : Sort the results by date sortedData=totalOrdersPerDate.sortByKey().collect()
#print results
for line in sortedData:
print(line)
NEW QUESTION 65
CORRECT TEXT
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
1 0,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. See the explanation for Step by Step Solution and configuration.
Explanation:
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

 $Step \ 9: Copy \ merged \ file \ in \ Employeed \ directory \ from \ local \ file \ ssytem \ to \ HDFS. \ hdfs \ dfs \ \&\#8211; \ put \ Merged Employee.txt \ Employee/$

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

Step 11: Change the permission of the merged file on HDFS hdfs dfs -chmpd 664

Employee/Merged Employee.txt

Step 12: Get the file from HDFS to local file system, hdfs dfs -get Employee

Employee_hdfs

NEW QUESTION 66

CORRECT TEXT

Problem Scenario 35: You have been given a file named spark7/EmployeeName.csv

(id,name).

EmployeeName.csv

E01,Lokesh

E02,Bhupesh
E03,Amit
E04,Ratan
E05,Dinesh
E06,Pavan
E07,Tejas
E08,Sheela
E09,Kumar
E10,Venkat
1. Load this file from hdfs and sort it by name and save it back as (id,name) in results directory. However, make sure while saving it should be able to write In a single file. See the explanation for Step by Step Solution and configuration.
Explanation:
Solution:
Step 1 : Create file in hdfs (We will do using Hue). However, you can first create in local filesystem and then upload it to hdfs.
Step 2 : Load EmployeeName.csv file from hdfs and create PairRDDs
val name = sc.textFile("spark7/EmployeeName.csv")
val namePairRDD = name.map(x=> (x.split(",")(0),x.split(",")(1)))
Step 3: Now swap namePairRDD RDD.
val swapped = namePairRDD.map(item => item.swap)
step 4: Now sort the rdd by key.
val sortedOutput = swapped.sortByKey()
Step 5 : Now swap the result back
val swappedBack = sortedOutput.map(item => item.swap)
Step 6: Save the output as a Text file and output must be written in a single file.
swappedBack. repartition(1).saveAsTextFile("spark7/result.txt")

NEW QUESTION 67
CORRECT TEXT
Problem Scenario 38: You have been given an RDD as below,
val rdd: RDD[Array[Byte]]
Now you have to save this RDD as a SequenceFile. And below is the code snippet.
import org.apache.hadoop.io.compress.GzipCodec
rdd.map(bytesArray => (A.get(), new
B(bytesArray))).saveAsSequenceFile('7output/path",classOt[GzipCodec])
What would be the correct replacement for A and B in above snippet. See the explanation for Step by Step Solution and configuration.
Explanation:
Solution:
A. NullWritable
B. BytesWritable
NEW QUESTION 68
CORRECT TEXT
Problem Scenario 16: 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 below assignment.
1. Create a table in hive as below.
create table departments_hive(department_id int, department_name string);
2. Now import data from mysql table departments to this hive table. Please make sure that data should be visible using below hive command, select" from departments_hive See the explanation for Step by Step Solution and configuration.

Explanation:
Solution:
Step 1 : Create hive table as said.
hive
show tables;
create table departments_hive(department_id int, department_name string);
Step 2: The important here is, when we create a table without delimiter fields. Then default delimiter for hive is A (01). Hence, while importing data we have to provide proper delimiter.
sqoop import
-connect jdbc:mysql://quickstart:3306/retail_db
~ username=retail_dba
-password=cloudera
–table departments
–hive-home /user/hive/warehouse
-hive-import
-hive-overwrite
–hive-table departments_hive
–fields-terminated-by '01'
Step 3 : Check-the data in directory.
hdfs dfs -Is /user/hive/warehouse/departments_hive
hdfs dfs -cat/user/hive/warehouse/departmentshive/part'
Check data in hive table.
Select * from departments_hive;

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