



CCA175^{Q&As}

CCA Spark and Hadoop Developer Exam

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QUESTION 1

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",classOf[GzipCodec])
```

 What would be the correct replacement for A and B in above snippet.

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

Solution :

- A. NullWritable
 - B. BytesWritable
-

QUESTION 2

Problem Scenario 40 : You have been given sample data as below in a file called spark15/file1.txt
3070811,1963,1096,, "US", "CA" ,, 1, 3022811,1963,1096, "US", "CA" ,, 1,56 3033811,1963,1096,, "US", "CA" ,, 1,23 Below is the code snippet to process this file. val field= sc.textFile("spark15/file1.txt") val mapper = field.map(x=> A) mapper.map(x => x.map(x=> {B})).collect

Please fill in A and B so it can generate below final output

```
Array(Array(3070811,1963,1096, 0, "US", "CA", 0,1, 0)  
,Array(3022811,1963,1096, 0, "US", "CA", 0,1, 56)  
,Array(3033811,1963,1096, 0, "US", "CA", 0,1, 23)  
)
```

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

Solution :

- A. x.split(",",-1)
 - B. if (x. isEmpty) 0 else x
-

QUESTION 3

Problem Scenario 52 : You have been given below code snippet.

```
val b = sc.parallelize(List(1,2,3,4,5,6,7,8,2,4,2,1,1,1,1,1))
```



Operation_xyz

Write a correct code snippet for Operation_xyz which will produce below output.

```
scalaxollection.Map[Int,Long] = Map(5 -> 1, 8 -> 1, 3 -> 1, 6 -> 1, 1 -> S, 2 -> 3, 4 -> 2, 7 ->
```

1)

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

Solution : `b.countByValue` `countByValue` Returns a map that contains all unique values of the RDD and their respective occurrence counts. (Warning: This operation will finally aggregate the information in a single reducer.) Listing Variants
`def countByValue(): Map[T, Long]`

QUESTION 4

Problem Scenario 13 : 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_export (department_id int(11), department_name varchar(45),  
created_date T1MESTAMP DEFAULT NOWQ);
```

2.

Now import the data from following directory into `departments_export` table,

```
/user/cloudera/departments new
```

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

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_export (departmentjd int(11), department_name varchar(45),  
created_date T1MESTAMP DEFAULT NOW());
```

```
show tables;
```

Step 3 : Export data from `/user/cloudera/departmentsnew` to new table `departments_export`

```
sqoop export -connect jdbc:mysql://quickstart:3306/retail_db \
```



```
-username retaildba \  
--password cloudera \  
--table departments_export \  
-export-dir /user/cloudera/departments_new \  
-batch
```

Step 4 : Now check the export is correctly done or not. mysql -user*retail_dba password=cloudera

```
show databases;
```

```
use retail_db;
```

```
show tables;
```

```
select\'\' from departments_export;
```

QUESTION 5

Problem Scenario 84 : In Continuation of previous question, please accomplish following activities.

1.

Select all the products which has product code as null

2.

Select all the products, whose name starts with Pen and results should be order by Price descending order.

3.

Select all the products, whose name starts with Pen and results should be order by Price descending order and quantity ascending order.

4.

Select top 2 products by price

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

Solution : Step 1 : Select all the products which has product code as null val results = sqlContext.sql(.....SELECT\'\' FROM products WHERE code IS NULL.....) results. showQ val results = sqlContext.sql(.....SELECT * FROM products WHERE code = NULL ",,M) results.showQ Step 2 : Select all the products , whose name starts with Pen and results should be order by Price descending order. val results = sqlContext.sql(.....SELECT * FROM products WHERE name LIKE \'\'Pen %\'\' ORDER BY price DESC.....) results. showQ Step 3 : Select all the products , whose name starts with Pen and results should be order by Price descending order and quantity ascending order. val results = sqlContext.sql(.....SELECT * FROM products WHERE name LIKE \'\'Pen %\'\' ORDER BY price DESC, quantity.....) results. showQ Step 4 : Select top 2 products by price val results = sqlContext.sql(.....SELECT\'\' FROM products ORDER BY price desc LIMIT2.....} results. show()



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