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A00-221

SAS Big Data Programming and Loading



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Question: 1

What is an advantage of using a LIBNAME statement to interact with your Hadoop cluster?
Response:

- A. It enables you to submit user-written HiveQL code to Hive.
- B. The GENERATE_PIG_CODE= option enables you to bypass Hive and generate Pig Latin code.
- C. It enables some SAS procedures to push processing into Hive.
- D. It ensures that Hive will handle all processing.

Answer: C

Question: 2

Which operator is NOT a diagnostic operator for testing a Pig program?
Response:

- A. DUMP
- B. ILLUSTRATE
- C. EXPLAIN
- D. SPLIT

Answer: D

Question: 3

When working with data stored in Hadoop, which SAS function is NOT passed to Hive by default?
Response:

- A. DATE
- B. HOUR
- C. VAR
- D. UPCASE

Answer: A

Question: 4

Refer to the log message shown below:

```
58    proc ds2;  
59    data test;  
60    dcl double date;  
61    method run();  
62    set work.one;  
63    mm=2;  
64    end;  
65    enddata;  
66    run;
```

ERROR: Compilation error.

ERROR: Parse encountered type when expecting identifier.

ERROR: Parse failed on line 60: dcl double >>> date <<< ;

NOTE: PROC DS2 has set option NOEXEC and will continue to prepare statements.

```
67    quit;
```

Which of the following changes will fix the errors shown in the log?

Response:

- A. Replace line 60 with dcl double 'date';
- B. Replace line 60 with dcl double "date";
- C. Replace line 60 with dcl string date;
- D. Replace line 60 with dcl double 'date'n;

Answer: B

Question: 5

In the example below, the input data set is a Hive table accessed using a SAS/ACCESS to Hadoop LIBNAME statement.

```
procfreq data=hivelib.myhivetable;  
class month;  
by year;  
run;
```

Which statement is true about this program?

Response:

- A. The procedure will fail unless the table HIVELIB.MYHIVETABLE is already stored ordered by YEAR.
- B. SAS will generate a HiveQL query to return the data to SAS ordered by YEAR so that the procedure receives the data ordered by YEAR as required.
- C. BY statements do not require the data be received by the procedure in any specific order.
- D. BY statements are not supported for Hive tables because it is not possible to order data that is distributed on different nodes of the Hadoop cluster.

Answer: B

Question: 6

Many temporary tables may be created in the LASR server by PROC IMSTAT analysis actions. What happens to temporary tables when a PROC IMSTAT session is terminated?

Response:

- A. All temporary tables are saved to the SAS server WORK library.
- B. All temporary tables are purged from the LASR server.
- C. The last temporary table created is saved to the SAS WORK library.
- D. The last temporary table created is saved to storage in the HDFS.

Answer: B

Question: 7

The following SAS program is submitted:

```
proc ds2;  
datawork.sasorders;  
dcl timestamp order_timestamp;  
dcl double order_datetime;  
method run();  
set orders;  
order_timestamp = to_timestamp(order_datetime);  
end;  
enddata;  
run;  
quit;
```

What happens when the program is executed?

Response:

- A. The variable order_timestamp is created and processed as an ANSI timestamp value in the DS2 program. The order_timestamp value is converted to a SAS datetime when it is written to the output SAS data set.
- B. The variable order_timestamp is created and processed as an ANSI timestamp value in the DS2 program. The output data set stores the values as a SAS timestamp value.
- C. The variable order_timestamp is converted to a SAS time value. The output data set stores this as the number of seconds since midnight.
- D. The program does not execute because order_datetime is a SAS datetime value.

Answer: A

Question: 8

Web server logs are written in an HDFS directory. The following lines indicate the format and an example of the comma-separated values for one line in the log file.

IP address, timestamp, request, status, size

192.168.12.41,24/Nov/2015:10:09:58 -0500,"GET /services/config.xml HTTP/1.1",200,816

Which CREATE TABLE statement enables a Hive query to access each of the fields?

Response:

- A. create external table weblogs (ip string, dt string, req string, status int, sz string) row format delimited fields terminated by ',' location '/data/weblogs';
- B. create external table weblogs (ip string, dt string, req string, status int, sz string) fields terminated by ',' location '/data/weblogs';
- C. create external table weblogs (ip string, rest string) row format delimited fields terminated by ',' location '/data/weblogs';
- D. create external table weblogs (ip string, dt string, req string, status int, sz string) fields delimited fields by ',' location '/data/weblogs';

Answer: A

Question: 9

Which statement creates a temporary array within DS2?

Response:

- A. vararray double a[2];
- B. vararray double a(2);
- C. array a(2) s1-s2;
- D. dcl double a[2];

Answer: D

Question: 10

This question will ask you to provide a line of missing code.

Which line of code would you insert to get the mean and standard deviation of INCOME and AGE, calculated separately for GENDER variable values F (female) and M (male)?

procimstat;

tablemylasr.bankdata(tag="&TagString");

<insert code here>

run;

Response:

- A. summary income age / groupby=gender;
- B. crosstab income*gender age*gender;

- C. summary income age / by=gender;
- D. univariate income age / by=gender;

Answer: A

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