DS-200 Q&As

Data Science Essentials

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QUESTION 1

You have a large file of N records (one per line), and want to randomly sample 10% them. You have two functions that are perfect random number generators (through they are a bit slow):

Random_uniform () generates a uniformly distributed number in the interval [0, 1] random_permotation (M) generates a random permutation of the number O through M -1.

Below are three different functions that implement the sampling.

Method A

For line in file: If random_uniform ()

Method B

i = 0

for line in file:

if i % 10 = = 0;

print line

i += 1

Method C

idxs = random_permotation (N) [: (N/10)]

i = 0

for line in file:

if i in idxs:

print line

i +=1

Which method requires the most RAM?

A. Method A

B. Method B

C. Method C

Correct Answer: B

QUESTION 2

You are building a system to perform outlier detection for a large online retailer. You need to build a system to detect if the total dollar value of sales are outside the norm for each U.S. state, as determined from the physical location of the buyer for each purchase. The retailer\\'s data sources are scattered across multiple systems and databases and are unorganized with little coordination or shared data or keys between the various data sources.

Below are the sources of data available to you. Determine which three will give you the smallest set of data sources but still allow you to implement the outlier detector by state.

A. Database of employees that Includes only the employee ID, start date, and department

B. Database of users that contains only their user ID, name, and a list of every Item the user has viewed

C. Transaction log that contains only basket ID, basket amount, time of sale completion, and a session ID

D. Database of user sessions that includes only session ID, corresponding user ID, and the corresponding IP address

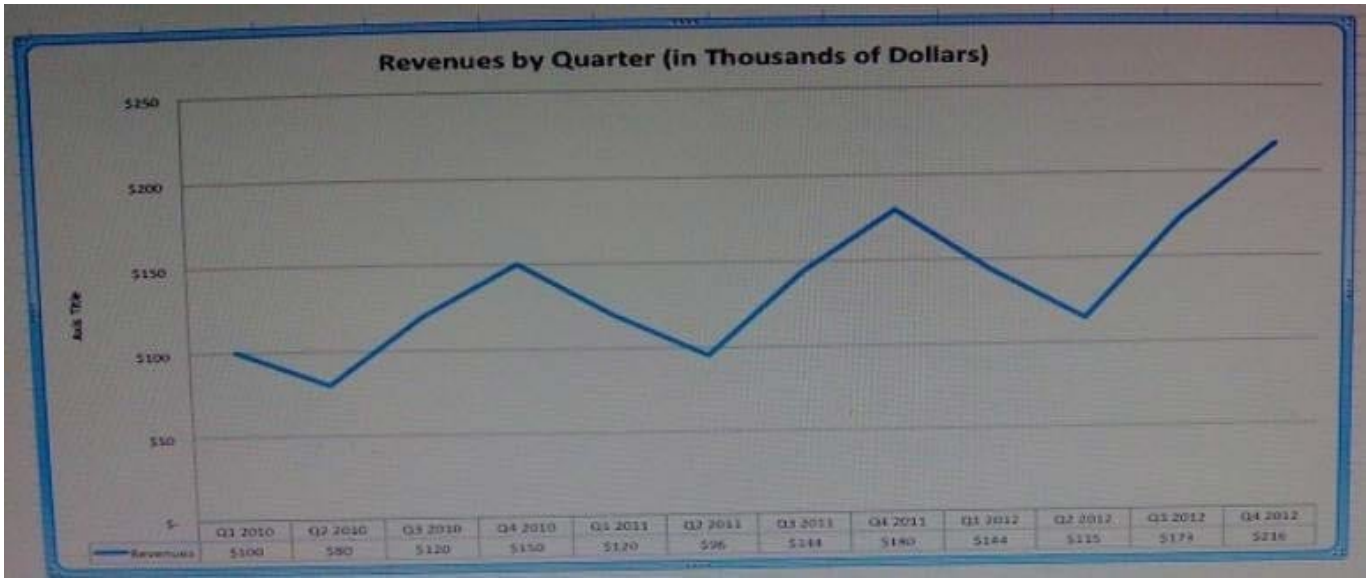
E. External database mapping IP addresses to geographic locations

F. Database of items that includes only the item name, item ID, and warehouse location

G. Database of shipments that includes only the basket ID, shipment address, shipment date, and shipment method

Correct Answer: ADF

QUESTION 3



Assuming the trends shown in this chart continue, what would we expect the value of the revenue to be in Q1 of 2013?

A. $125,000

B. $170,000

C. $220,000

D. $250,000

Correct Answer: A

QUESTION 4

When optimizing a function using stochastic gradient descent, how frequently should you update your estimate of the gradient?

A. Once after every pass through the data set

B. Once per observation

C. For each observation with a probability that you choose ahead of time

D. After a random number of observations

E. Once every N observations, where you decide N ahead of time

Correct Answer: AC

QUESTION 5

You have just run a MapReduce job to filter user messages to only those of a selected geographical region. The output for this job in a directory named westUsers, located just below your home directory in HDFS. Which command gathers these records into a single file on your local file system?

A. Hadoop fs getmerge westUsers WestUsers.txt

B. Hadoop fs get westUsers WestUsers.txt

C. Hadoop fs cp westUsers/* westUsers.txt

D. Hadoop fs getmerge R westUsers westUsers.txt

Correct Answer: B