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Google Certified Professional Data Engineer Exam Sample Questions (Q206-Q211):

NEW QUESTION # 206

You orchestrate ETL pipelines by using Cloud Composer One of the tasks in the Apache Airflow directed acyclic graph (DAG) relies on a third-party service. You want to be notified when the task does not succeed.

What should you do?

- A. Configure a Cloud Monitoring alert on the `sla_missed` metric associated with the task at risk to trigger a notification.
- B. Assign a function with notification logic to the `on_retry_callback` parameter for the operator responsible for the task at risk.
- C. Assign a function with notification logic to the `sla_miss_callback` parameter for the operator responsible for the task at risk.
- **D. Assign a function with notification logic to the `on_failure_callback` parameter for the operator responsible for the task at risk.**

Answer: D

Explanation:

By assigning a function with notification logic to the `on_failure_callback` parameter, you can customize the action that is taken when a task fails in your DAG¹. For example, you can send an email, a Slack message, or a PagerDuty alert to notify yourself or your team about the task failure². This option is more flexible and reliable than configuring a Cloud Monitoring alert on the `sla_missed` metric, which only triggers when a task misses its scheduled deadline³. The `sla_miss_callback` parameter is also related to the `sla_missed` metric, and it is executed when the task instance has not succeeded and the time is past the task's scheduled execution date plus its `sla`⁴. The `on_retry_callback` parameter is executed before a task is retried⁴. These options are not suitable for notifying when a task does not succeed, as they depend on the task's schedule and retry settings, which may not reflect the actual task completion status.

References:

1: Callbacks | Cloud Composer | Google Cloud

2: How to Send an Email on Task Failure in Airflow - Astronomer

3: Monitoring SLA misses | Cloud Composer | Google Cloud

4: BaseOperator | Apache Airflow Documentation

NEW QUESTION # 207

You want to build a managed Hadoop system as your data lake. The data transformation process is composed of a series of Hadoop jobs executed in sequence. To accomplish the design of separating storage from compute, you decided to use the Cloud Storage connector to store all input data, output data, and intermediary data

a. However, you noticed that one Hadoop job runs very slowly with Cloud Dataproc, when compared with the on-premises bare-metal Hadoop environment (8-core nodes with 100-GB RAM). Analysis shows that this particular Hadoop job is disk I/O intensive. You want to resolve the issue. What should you do?

- **A. Allocate sufficient memory to the Hadoop cluster, so that the intermediary data of that particular Hadoop job can be held in memory**
- B. Allocate additional network interface card (NIC), and configure link aggregation in the operating system to use the combined throughput when working with Cloud Storage
- C. Allocate more CPU cores of the virtual machine instances of the Hadoop cluster so that the networking bandwidth for each instance can scale up
- D. Allocate sufficient persistent disk space to the Hadoop cluster, and store the intermediate data of that particular Hadoop job on native HDFS

Answer: A

NEW QUESTION # 208

Your weather app queries a database every 15 minutes to get the current temperature. The frontend is powered by Google App Engine and server millions of users. How should you design the frontend to respond to a database failure?

- A. Reduce the query frequency to once every hour until the database comes back online.
- B. Retry the query every second until it comes back online to minimize staleness of data.
- **C. Retry the query with exponential backoff, up to a cap of 15 minutes.**

- D. Issue a command to restart the database servers.

Answer: C

Explanation:

<https://cloud.google.com/sql/docs/mysql/manage-connections#backoff>

NEW QUESTION # 209

What are all of the BigQuery operations that Google charges for?

- **A. Storage, queries, and streaming inserts**
- B. Queries and streaming inserts
- C. Storage, queries, and exporting data
- D. Storage, queries, and loading data from a file

Answer: A

Explanation:

Explanation

Google charges for storage, queries, and streaming inserts. Loading data from a file and exporting data are free operations.

Reference: <https://cloud.google.com/bigquery/pricing>

NEW QUESTION # 210

How can you get a neural network to learn about relationships between categories in a categorical feature?

- A. Create a hash bucket
- B. Create a one-hot column
- **C. Create an embedding column**
- D. Create a multi-hot column

Answer: C

Explanation:

Explanation

There are two problems with one-hot encoding. First, it has high dimensionality, meaning that instead of having just one value, like a continuous feature, it has many values, or dimensions. This makes computation more time-consuming, especially if a feature has a very large number of categories. The second problem is that it doesn't encode any relationships between the categories. They are completely independent from each other, so the network has no way of knowing which ones are similar to each other.

Both of these problems can be solved by representing a categorical feature with an embedding column. The idea is that each category has a smaller vector with, let's say, 5 values in it. But unlike a one-hot vector, the values are not usually 0. The values are weights, similar to the weights that are used for basic features in a neural network. The difference is that each category has a set of weights (5 of them in this case).

You can think of each value in the embedding vector as a feature of the category. So, if two categories are very similar to each other, then their embedding vectors should be very similar too.

Reference:

<https://cloudacademy.com/google/introduction-to-google-cloud-machine-learning-engine-course/a-wide-and-dee>

NEW QUESTION # 211

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