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Google Certified Professional Data Engineer Exam Sample Questions (Q173-Q178):

NEW QUESTION # 173

Which of these are examples of a value in a sparse vector? (Select 2 answers.)

- A. [0, 5, 0, 0, 0, 0]
- B. [0, 0, 0, 1, 0, 0, 1]
- C. [1, 0, 0, 0, 0, 0, 0]
- D. [0, 1]

Answer: C,D

Explanation:

Categorical features in linear models are typically translated into a sparse vector in which each possible value has a corresponding index or id. For example, if there are only three possible eye colors you can represent 'eye_color' as a length 3 vector: 'brown' would become [1, 0, 0], 'blue' would become [0, 1, 0] and 'green' would become [0, 0, 1]. These vectors are called "sparse" because they may be very long, with many zeros, when the set of possible values is very large (such as all English words).

[0, 0, 0, 1, 0, 0, 1] is not a sparse vector because it has two 1s in it. A sparse vector contains only a single 1.

[0, 5, 0, 0, 0, 0] is not a sparse vector because it has a 5 in it. Sparse vectors only contain 0s and 1s.

Reference: https://www.tensorflow.org/tutorials/linear#feature_columns_and_transformations

NEW QUESTION # 174

You want to encrypt the customer data stored in BigQuery. You need to implement for-user crypto-deletion on data stored in your tables. You want to adopt native features in Google Cloud to avoid custom solutions. What should you do?

- A. Encrypt your data during ingestion by using a cryptographic library supported by your ETL pipeline.
- B. Create a customer-managed encryption key (CMEK) in Cloud KMS. Use the key to encrypt data before storing in BigQuery.
- C. **Create a customer-managed encryption key (CMEK) in Cloud KMS. Associate the key to the table while creating the table.**
- D. Implement Authenticated Encryption with Associated Data (AEAD) BigQuery functions while storing your data in BigQuery.

Answer: C

Explanation:

To implement for-user crypto-deletion and ensure that customer data stored in BigQuery is encrypted, using native Google Cloud features, the best approach is to use Customer-Managed Encryption Keys (CMEK) with Cloud Key Management Service (KMS). Here's why:

Customer-Managed Encryption Keys (CMEK):

CMEK allows you to manage your own encryption keys using Cloud KMS. These keys provide additional control over data access and encryption management.

Associating a CMEK with a BigQuery table ensures that data is encrypted with a key you manage.

For-User Crypto-Deletion:

For-user crypto-deletion can be achieved by disabling or destroying the CMEK. Once the key is disabled or destroyed, the data encrypted with that key cannot be decrypted, effectively rendering it unreadable.

Native Integration:

Using CMEK with BigQuery is a native feature, avoiding the need for custom encryption solutions. This simplifies the management and implementation of encryption and decryption processes.

Steps to Implement:

Create a CMEK in Cloud KMS:

Set up a new customer-managed encryption key in Cloud KMS.

Associate the CMEK with BigQuery Tables:

When creating a new table in BigQuery, specify the CMEK to be used for encryption. This can be done through the BigQuery console, CLI, or API.

Reference:

BigQuery and CMEK

Cloud KMS Documentation

Encrypting Data in BigQuery

NEW QUESTION # 175

You have a streaming pipeline that ingests data from Pub/Sub in production. You need to update this streaming pipeline with improved business logic. You need to ensure that the updated pipeline reprocesses the previous two days of delivered Pub/Sub messages. What should you do?

Choose 2 answers

- A. Use the Pub/Sub subscription clear-retry-policy flag.
- B. Use the Pub/Sub subscription retain-asked-messages flag.
- C. Use Pub/Sub Snapshot capture two days before the deployment.
- D. **Create a new Pub/Sub subscription two days before the deployment.**
- E. Use Pub/Sub Seek with a timestamp.

Answer: D,E

Explanation:

To update a streaming pipeline with improved business logic and reprocess the previous two days of delivered Pub/Sub messages, you should use Pub/Sub Seek with a timestamp and Pub/Sub Snapshot capture two days before the deployment. Pub/Sub Seek allows you to replay or purge messages in a subscription based on a time or a snapshot. Pub/Sub Snapshot allows you to capture the state of a subscription at a given point in time and replay messages from that point. By using these features, you can ensure that the updated pipeline can process the messages that were delivered in the past two days without losing any data. References:

* Pub/Sub Seek

* Pub/Sub Snapshot

NEW QUESTION # 176

You are creating the CI/CD cycle for the code of the directed acyclic graphs (DAGs) running in Cloud Composer. Your team has two Cloud Composer instances: one instance for development and another instance for production. Your team is using a Git repository to maintain and develop the code of the DAGs. You want to deploy the DAGs automatically to Cloud Composer when a certain tag is pushed to the Git repository. What should you do?

- A. 1 Use Cloud Build to copy the code of the DAG to the Cloud Storage bucket of the development instance for DAG testing.
2. If the tests pass, use Cloud Build to copy the code to the bucket of the production instance.
- B. 1 Use Cloud Build to copy the code of the DAG to the Cloud Storage bucket of the development instance for DAG testing.
2. If the tests pass, use Cloud Build to build a container with the code of the DAG and the KubernetesPodOperator to deploy the container to the Google Kubernetes Engine (GKE) cluster of the production instance.
- C. **1 Use Cloud Build to build a container with the code of the DAG and the KubernetesPodOperator to deploy the code to the Google Kubernetes Engine (GKE) cluster of the development instance for testing.**
2. If the tests pass, use the KubernetesPodOperator to deploy the container to the GKE cluster of the production instance.
- D. 1. Use Cloud Build to build a container and the Kubernetes Pod Operator to deploy the code of the DAG to the Google Kubernetes Engine (GKE) cluster of the development instance for testing.
2. If the tests pass, copy the code to the Cloud Storage bucket of the production instance.

Answer: C

NEW QUESTION # 177

Which software libraries are supported by Cloud Machine Learning Engine?

- A. Theano and Torch
- B. TensorFlow and Torch

- C. Theano and TensorFlow
- D. TensorFlow

Answer: D

Explanation:

Cloud ML Engine mainly does two things:

Enables you to train machine learning models at scale by running TensorFlow training applications in the cloud.

Hosts those trained models for you in the cloud so that you can use them to get predictions about new data.

NEW QUESTION # 178

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