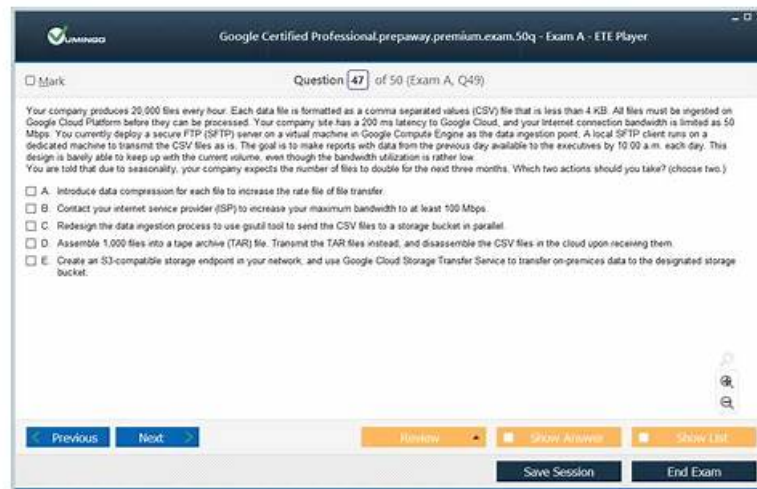


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Google Certified Professional Data Engineer Exam Sample Questions (Q224-Q229):

NEW QUESTION # 224

The Development and External teams have the project viewer Identity and Access Management (IAM) role in a folder named Visualization. You want the Development Team to be able to read data from both Cloud Storage and BigQuery, but the External Team should only be able to read data from BigQuery. What should you do?



- A. Remove Cloud Storage IAM permissions to the External Team on the acme-raw-data project
- B. Create a VPC Service Controls perimeter containing both protects and BigQuery as a restricted API. Add the External Team users to the perimeter's Access Level
- C. Create Virtual Private Cloud (VPC) firewall rules on the acme-raw-data protect that deny all Ingress traffic from the External Team CIDR range
- D. Create a VPC Service Controls perimeter containing both protects and Cloud Storage as a restricted API. Add the Development Team users to the perimeter's Access Level

Answer: B

NEW QUESTION # 225

You are developing a software application using Google's Dataflow SDK, and want to use conditional, for loops and other complex programming structures to create a branching pipeline. Which component will be used for the data processing operation?

- A. Pipeline
- B. Transform
- C. PCollection
- D. Sink API

Answer: B

Explanation:

In Google Cloud, the Dataflow SDK provides a transform component. It is responsible for the data processing operation. You can use conditional, for loops, and other complex programming structure to create a branching pipeline.

NEW QUESTION # 226

Which TensorFlow function can you use to configure a categorical column if you don't know all of the possible values for that column?

- A. categorical_column_with_vocabulary_list
- B. categorical_column_with_unknown_values
- C. categorical_column_with_hash_bucket

- D. `sparse_column_with_keys`

Answer: C

Explanation:

Explanation

If you know the set of all possible feature values of a column and there are only a few of them, you can use `categorical_column_with_vocabulary_list`. Each key in the list will get assigned an auto-incremental ID starting from 0.

What if we don't know the set of possible values in advance? Not a problem. We can use `categorical_column_with_hash_bucket` instead. What will happen is that each possible value in the feature column occupation will be hashed to an integer ID as we encounter them in training.

Reference: <https://www.tensorflow.org/tutorials/wide>

NEW QUESTION # 227

Your company is migrating their 30-node Apache Hadoop cluster to the cloud. They want to re-use Hadoop jobs they have already created and minimize the management of the cluster as much as possible. They also want to be able to persist data beyond the life of the cluster. What should you do?

- A. Create a Cloud Dataproc cluster that uses the Google Cloud Storage connector.
- B. Create a Hadoop cluster on Google Compute Engine that uses Local SSD disks.
- C. Create a Google Cloud Dataflow job to process the data.
- D. Create a Google Cloud Dataproc cluster that uses persistent disks for HDFS.
- E. Create a Hadoop cluster on Google Compute Engine that uses persistent disks.

Answer: A

NEW QUESTION # 228

You are building a streaming Dataflow pipeline that ingests noise level data from hundreds of sensors placed near construction sites across a city. The sensors measure noise level every ten seconds, and send that data to the pipeline when levels reach above 70 dBA. You need to detect the average noise level from a sensor when data is received for a duration of more than 30 minutes, but the window ends when no data has been received for 15 minutes. What should you do?

- A. Use session windows with a 30-minute gap duration.
- B. Use tumbling windows with a 15-minute window and a fifteen-minute `withAllowedLateness` operator.
- C. Use hopping windows with a 15-minute window, and a thirty-minute period.
- D. Use session windows with a 15-minute gap duration.

Answer: D

Explanation:

The key requirements for the windowing strategy are:

A window groups data for a specific sensor.

A window should contain data spanning at least 30 minutes ("duration of more than 30 minutes" implies activity for this period).

A window for a sensor ends when no data has been received from that sensor for 15 minutes (this is a gap).

This scenario perfectly describes session windows.

Session Windows: Session windows group elements (per key, e.g., per sensor ID) that arrive within a certain "gap duration" of each other. A new session starts if data for a key arrives after the gap duration has passed since the last data point for that key.

In this case, if data stops arriving for a sensor for 15 minutes, the current session for that sensor closes. This matches "the window ends when no data has been received for 15 minutes." The "duration of more than 30 minutes" requirement is a condition you would apply after the session window closes. You'd calculate the duration of the data within the closed session window and only compute the average if that session's duration (span of event times within it) exceeds 30 minutes. Session windows themselves don't have a fixed duration; their duration is determined by data activity and the gap.

Let's analyze why other options are less suitable:

A (Hopping windows with a 15-minute window, and a thirty-minute period): Hopping windows have a fixed size and a fixed period. They create overlapping windows. This doesn't align with the dynamic nature of sessions ending based on inactivity. A 30-minute period with a 15-minute window means windows like [0:00-0:15], [0:15-0:30], [0:30-0:45]. If activity is continuous, a 30-minute activity span would be covered, but the window closing is not based on a 15-minute gap of inactivity.

B (Tumbling windows with a 15-minute window and a fifteen-minute `.withAllowedLateness` operator):

Tumbling windows are fixed-size, non-overlapping windows. `.withAllowedLateness` deals with late data arriving for a window that has already passed its end time, not with defining the window based on activity gaps.

C (Session windows with a 30-minute gap duration): This would mean a session ends only if there's a 30-minute gap of inactivity. The requirement is a 15-minute gap.

Therefore, session windows with a 15-minute gap duration (Option D) correctly model the requirement for windows to close after 15 minutes of inactivity from a sensor. The subsequent filtering for sessions lasting more than 30 minutes is a downstream operation. Reference:

Apache Beam Programming Guide > Windowing > Windowing functions > Session windows. "Session windowing assigns elements to windows that represent sessions of activity. A session window starts when the first element arrives for a key. If another element arrives for that key within the specified gap duration, that element is included in the existing session window. If an element arrives after the gap duration, a new session window starts for that element... Session windows are useful for data that is irregularly distributed with respect to time, such as user activity data." This directly matches the sensor data behavior: data arrives when noise is high, and a period of no data for 15 minutes should close the analysis window for that sensor.

NEW QUESTION # 229

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