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Google Certified Professional Data Engineer Exam Sample Questions (Q33-Q38):

NEW QUESTION # 33

Which of the following statements about Legacy SQL and Standard SQL is not true?

- A. One difference between the two query languages is how you specify fully-qualified table names (i.e. table names that include their associated project name).
- B. If you write a query in Legacy SQL, it might generate an error if you try to run it with Standard SQL.
- C. Standard SQL is the preferred query language for BigQuery.
- **D. You need to set a query language for each dataset and the default is Standard SQL.**

Answer: D

Explanation:

You do not set a query language for each dataset. It is set each time you run a query and the default query language is Legacy SQL. Standard SQL has been the preferred query language since BigQuery 2.0 was released.

In legacy SQL, to query a table with a project-qualified name, you use a colon, :, as a separator. In standard SQL, you use a period, ., instead.

Due to the differences in syntax between the two query languages (such as with project-qualified table names), if you write a query in Legacy SQL, it might generate an error if you try to run it with Standard SQL.

Reference:

<https://cloud.google.com/bigquery/docs/reference/standard-sql/migrating-from-legacy-sql>

NEW QUESTION # 34

Which of these sources can you not load data into BigQuery from?

- **A. Google Cloud SQL**
- B. File upload
- C. Google Drive
- D. Google Cloud Storage

Answer: A

Explanation:

You can load data into BigQuery from a file upload, Google Cloud Storage, Google Drive, or Google Cloud Bigtable. It is not possible to load data into BigQuery directly from Google Cloud SQL. One way to get data from Cloud SQL to BigQuery would be to export data from Cloud SQL to Cloud Storage and then load it from there.

Reference: <https://cloud.google.com/bigquery/loading-data>

NEW QUESTION # 35

Which of these rules apply when you add preemptible workers to a Dataproc cluster (select 2 answers)?

- **A. A Dataproc cluster cannot have only preemptible workers.**
- B. Preemptible workers cannot use persistent disk.
- **C. Preemptible workers cannot store data.**
- D. If a preemptible worker is reclaimed, then a replacement worker must be added manually.

Answer: A,C

Explanation:

The following rules will apply when you use preemptible workers with a Cloud Dataproc cluster:

. Processing only-Since preemptibles can be reclaimed at any time, preemptible workers do not store data. Preemptibles added to a Cloud Dataproc cluster only function as processing nodes.

. No preemptible-only clusters-To ensure clusters do not lose all workers, Cloud Dataproc cannot create preemptible-only clusters.

. Persistent disk size-As a default, all preemptible workers are created with the smaller of 100GB or the primary worker boot disk

size. This disk space is used for local caching of data and is not available through HDFS. The managed group automatically re-adds workers lost due to reclamation as capacity permits.

NEW QUESTION # 36

You have a network of 1000 sensors. The sensors generate time series data: one metric per sensor per second, along with a timestamp. You already have 1 TB of data, and expect the data to grow by 1 GB every day. You need to access this data in two ways. The first access pattern requires retrieving the metric from one specific sensor stored at a specific timestamp, with a median single-digit millisecond latency. The second access pattern requires running complex analytic queries on the data, including joins, once a day. How should you store this data?

- A. Store your data in Bigtable. Concatenate the sensor ID and metric, and use it as the row key. Perform an export to BigQuery every day.
- B. Store your data in BigQuery. Use the metric as a primary key.
- **C. Store your data in Bigtable. Concatenate the sensor ID and timestamp and use it as the row key. Perform an export to BigQuery every day.**
- D. Store your data in BigQuery. Concatenate the sensor ID and timestamp, and use it as the primary key.

Answer: C

Explanation:

To store your data in a way that meets both access patterns, you should:

- A). Store your data in Bigtable. Concatenate the sensor ID and timestamp and use it as the row key. Perform an export to BigQuery every day. This option allows you to leverage the high performance and scalability of Bigtable for low-latency point queries on sensor data, as well as the powerful analytics capabilities of BigQuery for complex queries on large datasets. By using the sensor ID and timestamp as the row key, you can ensure that your data is sorted and distributed evenly across Bigtable nodes, and that you can easily retrieve the metric for a specific sensor and time. By performing an export to BigQuery every day, you can transfer your data to a columnar storage format that is optimized for analytical queries, and take advantage of BigQuery's features such as partitioning, clustering, and caching.
- B). Store your data in BigQuery. Concatenate the sensor ID and timestamp, and use it as the primary key. This option is not optimal because BigQuery is not designed for low-latency point queries, and using a concatenated primary key may result in poor performance and high costs. BigQuery does not support primary keys natively, and you would have to use a unique constraint or a hash function to enforce uniqueness. Moreover, BigQuery charges by the amount of data scanned, so using a long and complex primary key may increase the query cost and complexity.
- C). Store your data in Bigtable. Concatenate the sensor ID and metric, and use it as the row key. Perform an export to BigQuery every day. This option is not optimal because using the sensor ID and metric as the row key may result in data skew and hotspots in Bigtable, as some sensors may generate more metrics than others, or some metrics may be more common than others. This may affect the performance and availability of Bigtable, as well as the efficiency of the export to BigQuery.
- D). Store your data in BigQuery. Use the metric as a primary key. This option is not optimal because using the metric as a primary key may result in data duplication and inconsistency in BigQuery, as multiple sensors may generate the same metric at different times, or the same sensor may generate different metrics at the same time. This may affect the accuracy and reliability of your analytical queries, as well as the query cost and complexity.

NEW QUESTION # 37

Your data science team needs to perform interactive SQL queries on large datasets stored in Apache Parquet format within a Cloud Storage bucket. The team is familiar with Apache Hive and wants to leverage existing HiveQL queries. You need to provide an environment for the team to run their interactive HiveQL queries directly against the data in Cloud Storage. You want to keep operational overhead to a minimum. What should you do?

- A. Install and configure an Apache Hadoop and Hive cluster manually on a group of Compute Engine instances.
- **B. Deploy a Dataproc cluster with Hive services enabled.**
- C. Load the Parquet data into a BigQuery native table and use the BigQuery Connector for Hive to run the queries.
- D. Configure BigQuery with an external table definition pointing to the Parquet files.

Answer: B

Explanation:

The core requirement is to run interactive HiveQL queries (not just standard SQL) while keeping operational overhead low.

* Dataproc: Dataproc is the managed service for running Apache Hadoop, Spark, and Hive on Google Cloud. It allows the team to

use the exact HiveQL syntax and Hive tools they are familiar with.

Because it is a managed service, it significantly reduces the overhead compared to manual installation on GCE.

* Cloud Storage Integration: Dataproc is designed to use Cloud Storage as the underlying "file system" (using the gs:// connector), allowing Hive to query Parquet files directly without moving them.

* Correcting other options:

* A: Loading data into BigQuery is an ingestion process that adds overhead and moves the data, contradicting the "run directly against data in Cloud Storage" and "minimum overhead" goals.

* B: Manual installation on Compute Engine has the highest operational overhead.

* C: While BigQuery external tables can query Parquet on GCS, BigQuery uses GoogleSQL syntax, not HiveQL. The requirement explicitly mentions the team's familiarity and existing queries in HiveQL.

Reference: Google Cloud Documentation on Dataproc:

"Dataproc is a fully managed and highly scalable service for running Apache Spark, Apache Flink, Presto, and Apache Hadoop/Hive... It allows you to use your existing open-source tools and workflows on Google Cloud without the management burden of a manual cluster." (Source: Dataproc Overview)

"You can use Dataproc to run Hive queries... By default, Dataproc uses the Cloud Storage connector to allow Hive and other components to access data directly in Cloud Storage." (Source: Using Hive on Dataproc)

NEW QUESTION # 38

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