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Google Professional-Data-Engineer Exam is a certification offered by Google to validate the skills and expertise of data engineers. Professional-Data-Engineer exam is designed to test the ability of professionals to design, build, and maintain data processing systems that meet the needs of their organizations. It covers a wide range of topics, including data processing architecture, data modeling, data ingestion, and transformation.

Google Certified Professional Data Engineer Exam Sample Questions (Q397-Q402):

NEW QUESTION # 397

A live TV show asks viewers to cast votes using their mobile phones. The event generates a large volume of data during a 3 minute period. You are in charge of the Voting restructure* and must ensure that the platform can handle the load and that all votes are

processed. You must display partial results while voting is open.

After voting closes you need to count the votes exactly once while optimizing cost. What should you do?



- A. Write votes to a Pub/Sub topic and load into both Bigtable and BigQuery via a Dataflow pipeline. Query Bigtable for real-time results and BigQuery for later analysis. Shutdown the Bigtable instance when voting concludes. Create a Cloud SQL for PostgreSQL database with high availability (HA) configuration and multiple read replicas.
- B. Write votes to a Pub/Sub topic and have Cloud Functions subscribe to it and write votes to BigQuery.
- C. Create a Memorystore instance with a high availability (HA) configuration.

Answer: A

NEW QUESTION # 398

When you design a Google Cloud Bigtable schema it is recommended that you _____.

- A. Create schema designs that are based on a relational database design.
- B. Create schema designs that require atomicity across rows.
- C. Avoid schema designs that require atomicity across rows.
- D. Avoid schema designs that are based on NoSQL concepts.

Answer: C

Explanation:

Explanation:

All operations are atomic at the row level. For example, if you update two rows in a table, it's possible that one row will be updated successfully and the other update will fail. Avoid schema designs that require atomicity across rows.

Reference: <https://cloud.google.com/bigtable/docs/schema-design#row-keys>

NEW QUESTION # 399

You have a data pipeline with a Dataflow job that aggregates and writes time series metrics to Bigtable. You notice that data is slow to update in Bigtable. This data feeds a dashboard used by thousands of users across the organization. You need to support additional concurrent users and reduce the amount of time required to write the data. What should you do?

Choose 2 answers

- A. Increase the maximum number of Dataflow workers by setting `maxNumWorkers` in `PipelineOptions`.
- B. Increase the number of nodes in the Bigtable cluster.
- C. Modify your Dataflow pipeline to use the `CoGroupByKey` transform before writing to Bigtable.
- D. Configure your Dataflow pipeline to use local execution.
- E. Modify your Dataflow pipeline to use the `Flatten` transform before writing to Bigtable.

Answer: A,B

Explanation:

<https://cloud.google.com/bigtable/docs/performance#performance-write-throughput>

<https://cloud.google.com/dataflow/docs/reference/pipeline-options>

NEW QUESTION # 400

You have a query that filters a BigQuery table using a WHERE clause on timestamp and ID columns. By using `bq query --dry_run` you learn that the query triggers a full scan of the table, even though the filter on timestamp and ID selects a tiny fraction of the overall

data. You want to reduce the amount of data scanned by BigQuery with minimal changes to existing SQL queries. What should you do?

- A. Use the LIMIT keyword to reduce the number of rows returned.
- B. Create a separate table for each ID.
- C. Recreate the table with a partitioning column and clustering column.
- D. Use the bq query - -maximum_bytes_billed flag to restrict the number of bytes billed.

Answer: A

NEW QUESTION # 401

Your company's customer_order table in BigQuery stores the order history for 10 million customers, with a table size of 10 PB. You need to create a dashboard for the support team to view the order history. The dashboard has two filters, countryname and username. Both are string data types in the BigQuery table. When a filter is applied, the dashboard fetches the order history from the table and displays the query results.

However, the dashboard is slow to show the results when applying the filters to the following query:

```
SELECT date, order, status FROM customer_order
WHERE country = '<country_name>' AND username = '<username>'
```

How should you redesign the BigQuery table to support faster access?

- A. Partition the table by country and username fields.
- B. Cluster the table by country and username fields
- C. Partition the table by _PARTITIONTIME.
- D. Cluster the table by country field, and partition by username field.

Answer: B

Explanation:

To improve the performance of querying a large BigQuery table with filters on countryname and username, clustering the table by these fields is the most effective approach. Here's why option C is the best choice:

* Clustering in BigQuery:

* Clustering organizes data based on the values in specified columns. This can significantly improve query performance by reducing the amount of data scanned during query execution.

* Clustering by countryname and username means that data is physically sorted and stored together based on these fields, allowing BigQuery to quickly locate and read only the relevant data for queries using these filters.

* Filter Efficiency:

* With the table clustered by countryname and username, queries that filter on these columns can benefit from efficient data retrieval, reducing the amount of data processed and speeding up query execution.

* This directly addresses the performance issue of the dashboard queries that apply filters on these fields.

Steps to Implement:

* Redesign the Table:

* Create a new table with clustering on countryname and username:

```
CREATE TABLE project.dataset.new_table
CLUSTER BY countryname, username AS
SELECT * FROM project.dataset.customer_order;
```

* Migrate Data:

* Transfer the existing data from the original table to the new clustered table.

* Update Queries:

* Modify the dashboard queries to reference the new clustered table.

Reference Links:

* BigQuery Clustering Documentation

* Optimizing Query Performance

NEW QUESTION # 402

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well on this point. Our Professional-Data-Engineer real exam materials have their own unique learning method, abandon the traditional rote learning, adopt diversified memory patterns, such as the combination of text and graphics memory method, to distinguish between the memory of knowledge. Our Professional-Data-Engineer learning reference files are so scientific and reasonable that you can buy them safely.

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