

Google Professional-Data-Engineer Clear Exam & Professional-Data-Engineer Reliable Test Labs



This acknowledges that

Santosh Beora

has successfully completed all the requirements to be a

Google Cloud Certified
Professional Data Engineer

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ID: 0ec3a6fb064a579e2c25a0edf9083b
Certified As: Santosh Beora

Thomas Kurian
CEO, Google Cloud



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The Google Professional-Data-Engineer exam consists of multiple-choice and multiple-select questions, and it lasts for two hours. Candidates have to answer a total of 50 questions, and the passing score is 70%. Professional-Data-Engineer exam is available in English and Japanese and can be taken online or at a testing center. The fee for the exam is \$200, and it is valid for two years.

Google Professional-Data-Engineer certification exam consists of multiple choice and scenario-based questions. Professional-Data-Engineer exam covers a wide range of topics, including data processing architecture, data modeling, data ingestion, data transformation, data analysis, and data visualization. Professional-Data-Engineer exam also tests the candidate's ability to work with various Google Cloud Platform tools and services, such as Google Cloud Storage, Google BigQuery, and Google Cloud Dataflow. Candidates who pass the exam will receive the Google Certified Professional Data Engineer certification, which demonstrates their expertise in the field of data engineering and their ability to use Google Cloud Platform technologies to design and implement data processing systems.

The Google Professional-Data-Engineer Exam Tests the candidate's proficiency in working with various data processing tools, including Google Cloud Platform technologies such as BigQuery, Dataflow, and Cloud Storage. Professional-Data-Engineer exam also covers topics such as data modeling, data ingestion, data transformation, and data analysis. Additionally, the exam tests the candidate's understanding of best practices for data engineering, including performance optimization, security, and compliance.

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Google Certified Professional Data Engineer Exam Sample Questions (Q278-Q283):

NEW QUESTION # 278

You need to create a new transaction table in Cloud Spanner that stores product sales data. You are deciding what to use as a primary key. From a performance perspective, which strategy should you choose?

- A. A random universally unique identifier number (version 4 UUID)
- B. The original order identification number from the sales system, which is a monotonically increasing integer
- C. A concatenation of the product name and the current epoch time
- D. The current epoch time

Answer: A

Explanation:

Explanation/Reference: <https://www.uuidgenerator.net/version4>

NEW QUESTION # 279

Your company uses a proprietary system to send inventory data every 6 hours to a data ingestion service in the cloud. Transmitted data includes a payload of several fields and the timestamp of the transmission. If there are any concerns about a transmission, the system re-transmits the data. How should you deduplicate the data most efficiently?

- A. Assign global unique identifiers (GUID) to each data entry.
- B. Maintain a database table to store the hash value and other metadata for each data entry.
- C. Compute the hash value of each data entry, and compare it with all historical data.
- D. Store each data entry as the primary key in a separate database and apply an index.

Answer: B

Explanation:

Using Hash values we can remove duplicate values from a database. Hashvalues will be same for duplicate data and thus can be easily rejected.

NEW QUESTION # 280

Your company uses a proprietary system to send inventory data every 6 hours to a data ingestion service in the cloud. Transmitted data includes a payload of several fields and the timestamp of the transmission. If there are any concerns about a transmission, the system re-transmits the data.

- A. Store each data entry as the primary key in a separate database and apply an index.
- B. Assign global unique identifiers (GUID) to each data entry.
- C. How should you deduplicate the data most efficiently?
- D. Compute the hash value of each data entry, and compare it with all historical data.
- E. Maintain a database table to store the hash value and other metadata for each data entry.

Answer: A

NEW QUESTION # 281

Your company is running their first dynamic campaign, serving different offers by analyzing real-time data during the holiday season. The data scientists are collecting terabytes of data that rapidly grows every hour during their 30-day campaign. They are using Google Cloud Dataflow to preprocess the data and collect the feature (signals) data that is needed for the machine learning model in Google Cloud Bigtable. The team is observing suboptimal performance with reads and writes of their initial load of 10 TB of data. They want to improve this performance while minimizing cost. What should they do?

- A. Redesign the schema to use row keys based on numeric IDs that increase sequentially per user viewing the offers.
- B. Redefine the schema by evenly distributing reads and writes across the row space of the table.

- C. The performance issue should be resolved over time as the size of the BigDate cluster is increased.
- D. Redesign the schema to use a single row key to identify values that need to be updated frequently in the cluster.

Answer: B

NEW QUESTION # 282

You have spent a few days loading data from comma-separated values (CSV) files into the Google BigQuery table CLICK_STREAM. The column DT stores the epoch time of click events. For convenience, you chose a simple schema where every field is treated as the STRING type. Now, you want to compute web session durations of users who visit your site, and you want to change its data type to the TIMESTAMP. You want to minimize the migration effort without making future queries computationally expensive. What should you do?

- A. Create a view CLICK_STREAM_V, where strings from the column DT are cast into TIMESTAMP values. the view CLICK_STREAM_V instead of the table CLICK_STREAM from now on.
- B. Construct a query to return every row of the table CLICK_STREAM, while using the built-in function to cast strings from the column DT into TIMESTAMP values. Run the query into a destination table NEW_CLICK_STREAM, in which the column TS is the TIMESTAMP type. the table NEW_CLICK_STREAM instead of the table CLICK_STREAM from now on. In the future, new data is loaded into the table NEW_CLICK_STREAM.
- C. Add two columns to the table CLICK_STREAM: TS of the TIMESTAMP type and IS_NEW of the BOOLEAN type. Reload all data in append mode. For each appended row, set the value of IS_NEW to true. For future queries, the column TS instead of the column DT, with the WHERE clause ensuring that the value of IS_NEW must be true.
- D. Delete the table CLICK_STREAM, and then re-create it such that the column DT is of the TIMESTAMP type. Reload the data.
- E. Add a column TS of the TIMESTAMP type to the table CLICK_STREAM, and populate the numeric values from the column TS for each row. the column TS instead of the column DT from now on.

Answer: B

Explanation:

It's better to create a new table and delete old one when we are changing the datatype is permanent. View is not suitable because every time the query will run and additional charges will be applied.

NEW QUESTION # 283

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