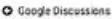


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EXAM PROFESSIONAL DATA ENGINEER TOPIC 1 QUESTION 310 DISCUSSION

Actual exam question from Google's Professional Data Engineer
Question # 310
Topic # 1
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You need to look at BigQuery data from a specific table multiple times a day. The underlying table you are querying is several petabytes in size, but you want to filter your data and provide simple aggregations to downstream users. You want to run queries faster and get up-to-date insights quicker. What should you do?

- A. Run a scheduled query to pull the necessary data at specific intervals daily.
- B. Use a cached query to accelerate time to results.
- C. Limit the query columns being pulled in the final result.
- D. Create a materialized view based off of the query being run.

[Show Answer](#)

Suggested Answer: D
Community vote distribution
90% (100%)

by [AllenChen123](#) at Jan. 26, 2024, 12:53 a.m.

Comments

 **AllenChen123** [Copy link](#) 8 months ago

Suggested Answer: D
Create a materialized view as query source.
Materialized views are precomputed views that periodically cache the results of a query for increased performance and efficiency.
updated 5 times

 **Shenbasekhar** [Copy link](#) 7 months ago

Suggested Answer: D
Option D. Materialized view
updated 1 time

 **Sofia98** 7 months, 4 weeks ago

Suggested Answer: D

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Google Professional-Data-Engineer certification exam covers a broad range of topics, including data processing systems, data modeling, data analysis, data visualization, and machine learning. It requires a strong understanding of Google Cloud Platform products and services, such as BigQuery, Dataflow, Dataproc, and Pub/Sub. Professional-Data-Engineer Exam also tests the ability to design and implement solutions that are scalable, efficient, and secure.

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Who is the Professional Data Engineer Exam Intended for?

This exam is designed for individuals who are experts in designing, building, securing, and monitoring data processing systems with a particular emphasis on compliance and security. The candidate who wants to take the Professional Data Engineer exam should have the ability to deploy, leverage, and training pre-existing machine learning models. Moreover, every applicant should have experience of more than 3 years including 1-year experience in designing and handling solutions utilizing GCP.

The Google Professional-Data-Engineer Exam consists of multiple-choice questions and requires candidates to demonstrate their knowledge of various data engineering concepts and technologies. The questions are designed to test the candidate's ability to analyze data, transform data, and implement data processing solutions using Google Cloud Platform's tools and services. Professional-Data-Engineer exam is two hours long, and candidates must achieve a passing score of 70% or higher to earn the certification.

Google Certified Professional Data Engineer Exam Sample Questions (Q370-Q375):

NEW QUESTION # 370

How would you query specific partitions in a BigQuery table?

- A. Use the `__PARTITIONTIME` pseudo-column in the WHERE clause
- B. Use DATE BETWEEN in the WHERE clause
- C. Use the EXTRACT(DAY) clause
- D. Use the DAY column in the WHERE clause

Answer: A

Explanation:

Partitioned tables include a pseudo column named `__PARTITIONTIME` that contains a date-based timestamp for data loaded into the table. To limit a query to particular partitions (such as Jan 1st and 2nd of 2017), use a clause similar to this: `WHERE __PARTITIONTIME BETWEEN TIMESTAMP('2017-01-01') AND TIMESTAMP('2017-01-02')`

Reference:

https://cloud.google.com/bigquery/docs/partitioned-tables#the_partitiontime_pseudo_column

NEW QUESTION # 371

What are two methods that can be used to denormalize tables in BigQuery?

- A. 1) Use a partitioned table; 2) Join tables into one table
- B. 1) Join tables into one table; 2) Use nested repeated fields
- C. 1) Split table into multiple tables; 2) Use a partitioned table
- D. 1) Use nested repeated fields; 2) Use a partitioned table

Answer: B

NEW QUESTION # 372

You work for an advertising company, and you've developed a Spark ML model to predict click-through rates at advertisement blocks. You've been developing everything at your on-premises data center, and now your company is migrating to Google Cloud. Your data center will be closing soon, so a rapid lift-and-shift migration is necessary. However, the data you've been using will be migrated to BigQuery. You periodically retrain your Spark ML models, so you need to migrate existing training pipelines to Google Cloud. What should you do?

- A. Use Cloud ML Engine for training existing Spark ML models
- B. Spin up a Spark cluster on Compute Engine, and train Spark ML models on the data exported from BigQuery
- C. Use Cloud Dataproc for training existing Spark ML models, but start reading data directly from BigQuery
- D. Rewrite your models on TensorFlow, and start using Vertex AI

Answer: C

NEW QUESTION # 373

Cloud Bigtable is Google's _____ Big Data database service.

- A. Relational
- B. mySQL
- **C. NoSQL**
- D. SQL Server

Answer: C

Explanation:

Cloud Bigtable is Google's NoSQL Big Data database service. It is the same database that Google uses for services, such as Search, Analytics, Maps, and Gmail. It is used for requirements that are low latency and high throughput including Internet of Things (IoT), user analytics, and financial data analysis.

Reference: <https://cloud.google.com/bigtable/>

NEW QUESTION # 374

You are loading CSV files from Cloud Storage to BigQuery. The files have known data quality issues, including mismatched data types, such as STRINGS and INT64s in the same column, and inconsistent formatting of values such as phone numbers or addresses. You need to create the data pipeline to maintain data quality and perform the required cleansing and transformation. What should you do?

- **A. Use Data Fusion to transform the data before loading it into BigQuery.**
- B. Create a table with the desired schema, load the CSV files into the table, and perform the transformations in place using SQL.
- C. Load the CSV files into a staging table with the desired schema, perform the transformations with SQL, and then write the results to the final destination table.
- D. Use Data Fusion to convert the CSV files to a self-describing data format, such as AVRO, before loading the data to BigQuery.

Answer: A

Explanation:

Data Fusion's advantages:

Visual interface: Offers a user-friendly interface for designing data pipelines without extensive coding, making it accessible to a wider range of users.

Built-in transformations: Includes a wide range of pre-built transformations to handle common data quality issues, such as:

Data type conversions

Data cleansing (e.g., removing invalid characters, correcting formatting) Data validation (e.g., checking for missing values, enforcing constraints) Data enrichment (e.g., adding derived fields, joining with other datasets) Custom transformations: Allows for custom transformations using SQL or Java code for more complex cleaning tasks.

Scalability: Can handle large datasets efficiently, making it suitable for processing CSV files with potential data quality issues.

Integration with BigQuery: Integrates seamlessly with BigQuery, allowing for direct loading of transformed data.

NEW QUESTION # 375

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