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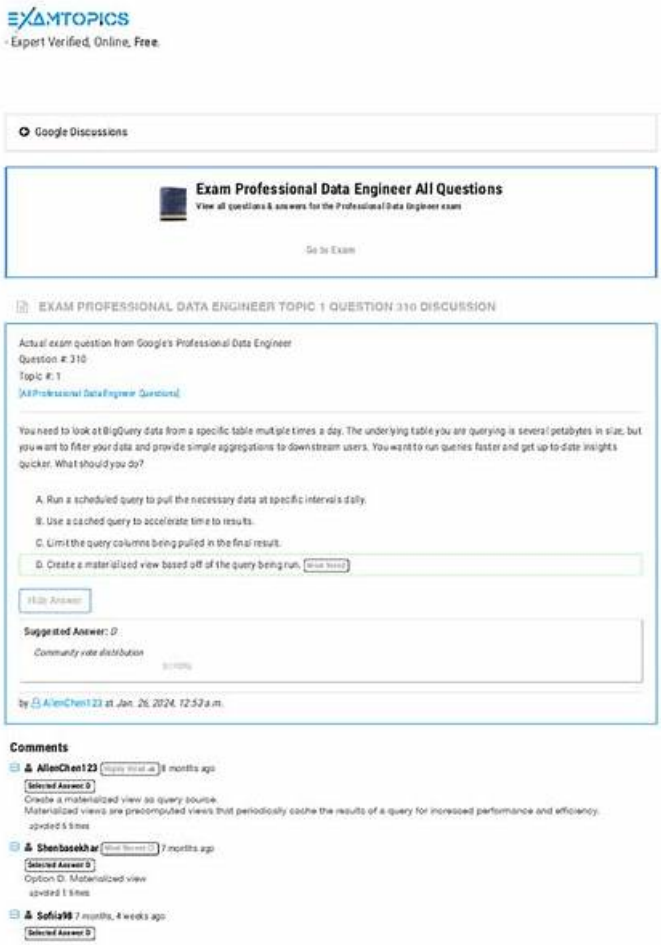

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Google Professional-Data-Engineer exam is a certification exam offered by Google Cloud Platform for data professionals who want to demonstrate their expertise in designing, building, and managing data processing systems on Google Cloud Platform. It is a highly valued certification in the industry and is especially relevant for those looking to work with Big Data. Professional-Data-Engineer Exam Tests a candidate's knowledge of various data engineering tools and technologies, and passing the exam demonstrates that the candidate has the skills and knowledge to design and implement data solutions on Google Cloud Platform.

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Whereas the Google Professional-Data-Engineer PDF Dumps file is concerned, this file is simply a collection of real, valid, and updated Google Certified Professional Data Engineer Exam (Professional-Data-Engineer) exam questions that also help you in

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Google Professional-Data-Engineer Certification is a highly respected and in-demand certification for data professionals. Google Certified Professional Data Engineer Exam certification is designed for individuals who possess the knowledge and skills to design, build, maintain, and troubleshoot data processing systems with a particular emphasis on the Google Cloud Platform. Google Certified Professional Data Engineer Exam certification is offered by Google and is recognized globally as a valuable credential for professionals in the data engineering field.

Google Certified Professional Data Engineer Exam Sample Questions (Q142-Q147):

NEW QUESTION # 142
You are designing storage for 20 TB of text files as part of deploying a data pipeline on Google Cloud.
Your input data is in CSV format. You want to minimize the cost of querying aggregate values for multiple users who will query the data in Cloud Storage with multiple engines. Which storage service and schema design should you use?

- A. Use Cloud Storage for storage. Link as permanent tables in BigQuery for query.
- B. Use Cloud Bigtable for storage. Install the HBase shell on a Compute Engine instance to query the Cloud Bigtable data.
- C. Use Cloud Storage for storage. Link as temporary tables in BigQuery for query.
- D. Use Cloud Bigtable for storage. Link as permanent tables in BigQuery for query.

Answer: B

NEW QUESTION # 143
Case Study 2 - MJTelco
Company Overview
MJTelco is a startup that plans to build networks in rapidly growing, underserved markets around the world.
The company has patents for innovative optical communications hardware. Based on these patents, they can create many reliable, high-speed backbone links with inexpensive hardware.
Company Background
Founded by experienced telecom executives, MJTelco uses technologies originally developed to overcome communications challenges in space. Fundamental to their operation, they need to create a distributed data infrastructure that drives real-time analysis and incorporates machine learning to continuously optimize their topologies. Because their hardware is inexpensive, they plan to overdeploy the network allowing them to account for the impact of dynamic regional politics on location availability and cost.
Their management and operations teams are situated all around the globe creating many-to-many relationship between data consumers and provides in their system. After careful consideration, they decided public cloud is the perfect environment to support their needs.
Solution Concept
MJTelco is running a successful proof-of-concept (PoC) project in its labs. They have two primary needs:
* Scale and harden their PoC to support significantly more data flows generated when they ramp to more than 50,000 installations.
* Refine their machine-learning cycles to verify and improve the dynamic models they use to control topology definition.
MJTelco will also use three separate operating environments - development/test, staging, and production - to meet the needs of running experiments, deploying new features, and serving production customers.
Business Requirements
* Scale up their production environment with minimal cost, instantiating resources when and where needed in an unpredictable, distributed telecom user community.
* Ensure security of their proprietary data to protect their leading-edge machine learning and analysis.
* Provide reliable and timely access to data for analysis from distributed research workers
* Maintain isolated environments that support rapid iteration of their machine-learning models without affecting their customers.
Technical Requirements
* Ensure secure and efficient transport and storage of telemetry data
* Rapidly scale instances to support between 10,000 and 100,000 data providers with multiple flows each.
* Allow analysis and presentation against data tables tracking up to 2 years of data storing approximately
100m records/day
* Support rapid iteration of monitoring infrastructure focused on awareness of data pipeline problems both in telemetry flows and in production learning cycles.
CEO Statement

Our business model relies on our patents, analytics and dynamic machine learning. Our inexpensive hardware is organized to be highly reliable, which gives us cost advantages. We need to quickly stabilize our large distributed data pipelines to meet our reliability and capacity commitments.
CTO Statement
Our public cloud services must operate as advertised. We need resources that scale and keep our data secure. We also need environments in which our data scientists can carefully study and quickly adapt our models. Because we rely on automation to process our data, we also need our development and test environments to work as we iterate.
CFO Statement
The project is too large for us to maintain the hardware and software required for the data and analysis.
Also, we cannot afford to staff an operations team to monitor so many data feeds, so we will rely on automation and infrastructure. Google Cloud's machine learning will allow our quantitative researchers to work on our high-value problems instead of problems with our data pipelines.
You need to compose visualization for operations teams with the following requirements:
* Telemetry must include data from all 50,000 installations for the most recent 6 weeks (sampling once every minute)
* The report must not be more than 3 hours delayed from live data.
* The actionable report should only show suboptimal links.
* Most suboptimal links should be sorted to the top.
* Suboptimal links can be grouped and filtered by regional geography.
* User response time to load the report must be <5 seconds.
You create a data source to store the last 6 weeks of data, and create visualizations that allow viewers to see multiple date ranges, distinct geographic regions, and unique installation types. You always show the latest data without any changes to your visualizations. You want to avoid creating and updating new visualizations each month. What should you do?

- A. Look through the current data and compose a small set of generalized charts and tables bound to criteria filters that allow value selection.
- B. Look through the current data and compose a series of charts and tables, one for each possible combination of criteria.
- C. Export the data to a spreadsheet, compose a series of charts and tables, one for each possible combination of criteria, and spread them across multiple tabs.
- D. Load the data into relational database tables, write a Google App Engine application that queries all rows, summarizes the data across each criteria, and then renders results using the Google Charts and visualization API.

Answer: A

NEW QUESTION # 144
Google Cloud Bigtable indexes a single value in each row. This value is called the _____.

- A. master key
- B. unique key
- C. row key
- D. primary key

Answer: C

Explanation:
Cloud Bigtable is a sparsely populated table that can scale to billions of rows and thousands of columns, allowing you to store terabytes or even petabytes of data. A single value in each row is indexed; this value is known as the row key.
Reference: https://cloud.google.com/bigtable/docs/overview

NEW QUESTION # 145
You are creating a new pipeline in Google Cloud to stream IoT data from Cloud Pub/Sub through Cloud Dataflow to BigQuery. While previewing the data, you notice that roughly 2% of the data appears to be corrupt.
You need to modify the Cloud Dataflow pipeline to filter out this corrupt data. What should you do?

- A. Add a GroupByKey transform in Cloud Dataflow to group all of the valid data together and discard the rest.
- B. Add a SideInput that returns a Boolean if the element is corrupt.
- C. Add a ParDo transform in Cloud Dataflow to discard corrupt elements.
- D. Add a Partition transform in Cloud Dataflow to separate valid data from corrupt data.

Answer: C

Explanation:
Explanation

NEW QUESTION # 146
You have a job that you want to cancel. It is a streaming pipeline, and you want to ensure that any data that is in-flight is processed and written to the output. Which of the following commands can you use on the Dataflow monitoring console to stop the pipeline job?

- A. Drain
- B. Finish
- C. Cancel
- D. Stop

Answer: A

Explanation:
Using the Drain option to stop your job tells the Dataflow service to finish your job in its current state. Your job will immediately stop ingesting new data from input sources, but the Dataflow service will preserve any existing resources (such as worker instances) to finish processing and writing any buffered data in your pipeline.
Reference: https://cloud.google.com/dataflow/pipelines/stopping-a-pipeline

NEW QUESTION # 147
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