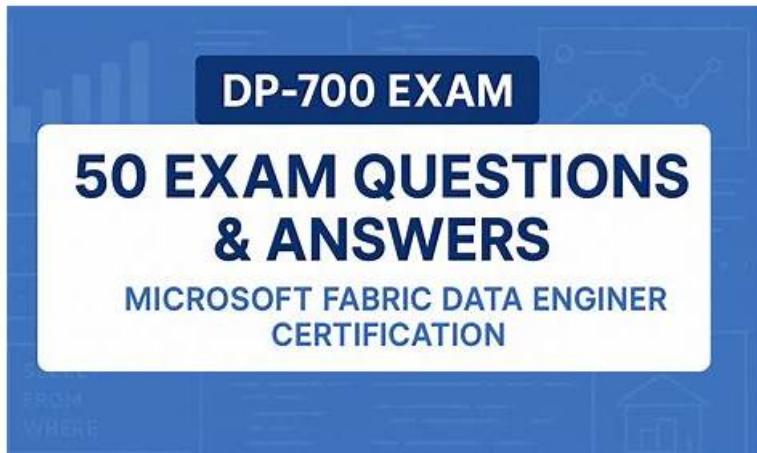


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Completing the preparation for the Google Professional-Data-Engineer exam on time is the most important aspect. The other thing is to prepare for the Google Professional-Data-Engineer exam by evaluating your preparation using authentic exam questions. Itexamguide provides the most authentic Google Professional-Data-Engineer Exam Questions compiled according to the rules and patterns supplied by Professional-Data-Engineer.

To become a certified Google Professional Data Engineer, candidates must pass the Professional-Data-Engineer exam. Professional-Data-Engineer exam consists of multiple-choice and scenario-based questions that test the candidate's knowledge of Google Cloud data processing technologies, data storage solutions, and data analysis tools. Professional-Data-Engineer Exam also evaluates the candidate's ability to design and implement data pipelines using Google Cloud services, such as BigQuery, Cloud Dataflow, and Cloud Dataproc.

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To become a Google Certified Professional Data Engineer, candidates need to pass the Professional-Data-Engineer exam. Professional-Data-Engineer exam is designed to test the knowledge and skills of professionals in designing, building, and maintaining data processing systems. Professional-Data-Engineer exam consists of multiple-choice and scenario-based questions that test the candidate's ability to analyze and solve real-world problems related to data engineering.

Google Professional-Data-Engineer exam is designed to test an individual's ability to design, build, and maintain data processing systems on Google Cloud Platform. Professional-Data-Engineer Exam is intended for data engineers, developers, and other IT professionals who are responsible for designing and implementing data solutions on Google Cloud Platform. Professional-Data-Engineer exam covers a broad range of topics, including data processing, data warehousing, data analysis, and machine learning.

Google Certified Professional Data Engineer Exam Sample Questions (Q191-Q196):

NEW QUESTION # 191

Which of these are examples of a value in a sparse vector? (Select 2 answers.)

- A. [1, 0, 0, 0, 0, 0, 0]
- B. [0, 1]
- C. [0, 5, 0, 0, 0, 0]
- D. [0, 0, 0, 1, 0, 0, 1]

Answer: A,B

Explanation:

Categorical features in linear models are typically translated into a sparse vector in which each possible value has a corresponding index or id. For example, if there are only three possible eye colors you can represent 'eye_color' as a length 3 vector: 'brown' would become [1, 0, 0], 'blue' would become [0, 1, 0] and 'green' would become [0, 0, 1]. These vectors are called "sparse" because they may be very long, with many zeros, when the set of possible values is very large (such as all English words).

[0, 0, 0, 1, 0, 0, 1] is not a sparse vector because it has two 1s in it. A sparse vector contains only a single 1.

[0, 5, 0, 0, 0, 0] is not a sparse vector because it has a 5 in it. Sparse vectors only contain 0s and 1s.

Reference:

https://www.tensorflow.org/tutorials/linear#feature_columns_and_transformations

NEW QUESTION # 192

Government regulations in your industry mandate that you have to maintain an auditable record of access to certain types of data. Assuming that all expiring logs will be archived correctly, where should you store data that is subject to that mandate?

- A. In a bucket on Cloud Storage that is accessible only by an AppEngine service that collects user information and logs the access before providing a link to the bucket.
- B. In Cloud SQL, with separate database user names to each user. The Cloud SQL Admin activity logs will be used to provide the auditability.
- C. Encrypted on Cloud Storage with user-supplied encryption keys. A separate decryption key will be given to each authorized user.
- D. In a BigQuery dataset that is viewable only by authorized personnel, with the Data Access log used to provide the auditability.

Answer: D

NEW QUESTION # 193

MJTelco is building a custom interface to share data

a. They have these requirements:

They need to do aggregations over their petabyte-scale datasets.

They need to scan specific time range rows with a very fast response time (milliseconds).

Which combination of Google Cloud Platform products should you recommend?

- A. BigQuery and Cloud Storage
- B. Cloud Datastore and Cloud Bigtable
- C. Cloud Bigtable and Cloud SQL
- D. BigQuery and Cloud Bigtable

Answer: D

NEW QUESTION # 194

An aerospace company uses a proprietary data format to store its night data

a. You need to connect this new data source to BigQuery and stream the data into BigQuery. You want to efficiently import the data into BigQuery where consuming as few resources as possible. What should you do?

- A. Use a standard Dataflow pipeline to store the raw data in BigQuery and then transform the format later when the data is used.

- B. Use an Apache Beam custom connector to write a Dataflow pipeline that streams the data into BigQuery in Avro format
- C. Write a shell script that triggers a Cloud Function that performs periodic ETL batch jobs on the new data source
- D. Use Apache Hive to write a Dataproc job that streams the data into BigQuery in CSV format

Answer: B

NEW QUESTION # 195

You need to modernize your existing on-premises data strategy. Your organization currently uses.

* Apache Hadoop clusters for processing multiple large data sets, including on-premises Hadoop Distributed File System (HDFS) for data replication.

* Apache Airflow to orchestrate hundreds of ETL pipelines with thousands of job steps.

You need to set up a new architecture in Google Cloud that can handle your Hadoop workloads and requires minimal changes to your existing orchestration processes. What should you do?

- A. Use Dataproc to migrate Hadoop clusters to Google Cloud, and Cloud Storage to handle any HDFS use cases Convert your ETL pipelines to Dataflow.
- B. Use Dataproc to migrate your Hadoop clusters to Google Cloud, and Cloud Storage to handle any HDFS use cases. Use Cloud Data Fusion to visually design and deploy your ETL pipelines.
- C. Use Dataproc to migrate Hadoop clusters to Google Cloud, and Cloud Storage to handle any HDFS use cases. Orchestrate your pipelines with Cloud Composer..
- D. Use Bigtable for your large workloads, with connections to Cloud Storage to handle any HDFS use cases Orchestrate your pipelines with Cloud Composer.

Answer: C

Explanation:

Dataproc is a fully managed service that allows you to run Apache Hadoop and Spark workloads on Google Cloud. It is compatible with the open source ecosystem, so you can migrate your existing Hadoop clusters to Dataproc with minimal changes. Cloud Storage is a scalable, durable, and cost-effective object storage service that can replace HDFS for storing and accessing data. Cloud Storage offers interoperability with Hadoop through connectors, so you can use it as a data source or sink for your Dataproc jobs. Cloud Composer is a fully managed service that allows you to create, schedule, and monitor workflows using Apache Airflow. It is integrated with Google Cloud services, such as Dataproc, BigQuery, Dataflow, and Pub/Sub, so you can orchestrate your ETL pipelines across different platforms. Cloud Composer is compatible with your existing Airflow code, so you can migrate your existing orchestration processes to Cloud Composer with minimal changes.

The other options are not as suitable as Dataproc and Cloud Composer for this use case, because they either require more changes to your existing code, or do not meet your requirements. Dataflow is a fully managed service that allows you to create and run scalable data processing pipelines using Apache Beam. However, Dataflow is not compatible with your existing Hadoop code, so you would need to rewrite your ETL pipelines using Beam. Bigtable is a fully managed NoSQL database service that can handle large and complex data sets.

However, Bigtable is not compatible with your existing Hadoop code, so you would need to rewrite your queries and applications using Bigtable APIs. Cloud Data Fusion is a fully managed service that allows you to visually design and deploy data integration pipelines using a graphical interface. However, Cloud Data Fusion is not compatible with your existing Airflow code, so you would need to recreate your orchestration processes using Cloud Data Fusion UI. References:

- * Dataproc overview
- * Cloud Storage connector for Hadoop
- * Cloud Composer overview

NEW QUESTION # 196

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