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Guide to preparing for the Google Cloud Professional Data Engineer Certification



April 5th @ 9AM PT

with live Q&A

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The software is designed for use on a Windows computer. This software helps hopefuls improve their performance on subsequent attempts by recording and analyzing Google Certified Professional Data Engineer Exam (Professional-Data-Engineer) exam results. Like the actual Google Professional-Data-Engineer Certification Exam, Google Certified Professional Data Engineer Exam (Professional-Data-Engineer) practice exam software has a certain number of questions and allocated time to answer.

To be eligible for the Google Professional-Data-Engineer Certification, candidates need to have a strong understanding of data engineering principles and practical experience in building and deploying data processing systems. Google Certified Professional Data Engineer Exam certification is ideal for professionals who work in data engineering or related fields, such as data analysis, business intelligence, and data science. It is also suitable for individuals who aspire to become data engineers and want to learn more about the field.

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Google Professional-Data-Engineer Certification Exam is one of the most sought-after certifications in the field of data engineering. Google Certified Professional Data Engineer Exam certification is ideal for individuals who are looking to take their career to the next level and want to demonstrate their expertise in cloud-based data engineering. By earning this certification, individuals can prove to employers that they have the necessary skills and knowledge to design and implement data processing systems using Google Cloud Platform technologies.

Google Certified Professional Data Engineer Exam Sample Questions (Q377-Q382):

NEW QUESTION # 377

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

- A. [0, 1]
- B. [1, 0, 0, 0, 0, 0, 0]
- 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.

NEW QUESTION # 378

You are designing the architecture to process your data from Cloud Storage to BigQuery by using Dataflow. The network team provided you with the Shared VPC network and subnetwork to be used by your pipelines. You need to enable the deployment of the pipeline on the Shared VPC network. What should you do?

- A. Assign the compute.networkUser role to the Dataflow service agent.
- B. Assign the dataflow, admin role to the Dataflow service agent.
- **C. Assign the compute.networkUser role to the service account that executes the Dataflow pipeline.**
- D. Assign the dataflow, admin role to the service account that executes the Dataflow pipeline.

Answer: C

Explanation:

To use a Shared VPC network for a Dataflow pipeline, you need to specify the subnetwork parameter with the full URL of the subnetwork, and grant the service account that executes the pipeline the compute.networkUser role in the host project. This role allows the service account to use the subnetworks in the Shared VPC network. The Dataflow service agent does not need this role, as it only creates and manages the resources for the pipeline, but does not execute it. The dataflow.admin role is not related to the network access, but to the permissions to create and delete Dataflow jobs and resources. Reference:

Specify a network and subnetwork | Cloud Dataflow | Google Cloud

How to config dataflow Pipeline to use a Shared VPC?

NEW QUESTION # 379

Your company handles data processing for a number of different clients. Each client prefers to use their own suite of analytics tools, with some allowing direct query access via Google BigQuery. You need to secure the data so that clients cannot see each other's data. a. You want to ensure appropriate access to the data. Which three steps should you take? (Choose three.)

- A. Load data into different partitions.
- B. Only allow a service account to access the datasets.
- **C. Restrict a client's dataset to approved users.**
- **D. Load data into a different dataset for each client.**
- **E. Use the appropriate identity and access management (IAM) roles for each client's users.**
- F. Put each client's BigQuery dataset into a different table.

Answer: C,D,E

NEW QUESTION # 380

What are two of the benefits of using denormalized data structures in BigQuery?

- A. Reduces the amount of data processed, increases query speed
- B. Reduces the amount of storage required, increases query speed
- **C. Increases query speed, makes queries simpler**
- D. Reduces the amount of data processed, reduces the amount of storage required

Answer: C

Explanation:

Denormalization increases query speed for tables with billions of rows because BigQuery's performance degrades when doing JOINS on large tables, but with a denormalized data structure, you don't have to use JOINS, since all of the data has been combined into one table. Denormalization also makes queries simpler because you do not have to use JOIN clauses.

Denormalization increases the amount of data processed and the amount of storage required because it creates redundant data. Reference:

https://cloud.google.com/solutions/bigquery-data-warehouse#denormalizing_data

NEW QUESTION # 381

You're training a model to predict housing prices based on an available dataset with real estate properties. Your plan is to train a fully connected neural net, and you've discovered that the dataset contains latitude and longitude of the property. Real estate professionals have told you that the location of the property is highly influential on price, so you'd like to engineer a feature that incorporates this physical dependency.

What should you do?

- A. Create a numeric column from a feature cross of latitude and longitude.
- **B. Create a feature cross of latitude and longitude, bucketize at the minute level and use L1 regularization during optimization.**
- C. Create a feature cross of latitude and longitude, bucketize it at the minute level and use L2 regularization during optimization.
- D. Provide latitude and longitude as input vectors to your neural net.

Answer: B

Explanation:

Reference <https://cloud.google.com/bigquery/docs/gis-dataa>

NEW QUESTION # 382

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