

Reliable Professional-Data-Engineer Dumps Sheet - Valid Professional-Data-Engineer Exam Labs



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As we all know, no pain, no gain. If you want to enter a better company, you must have the competitive force. Professional-Data-Engineer learning materials will offer you such opportunity to pass the exam and get the certificate successfully, so that you can improve your competitive force. Also, you need to spend certain time on practicing the Professional-Data-Engineer Exam Dumps, so that you can get the certificate at last. Besides, we pass guarantee and money back guarantee if you fail to pass the exam after buying Professional-Data-Engineer learning materials. We also offer you free update for one year, and the update version will be sent to your email automatically.

This course will show you how to manage big data including loading, extracting, cleaning, and validating data. At the end of the training, you can easily create machine learning and statistical models as well as visualizing query results. This program is a bit lengthy but you have to practice well to get the knowledge needed on the actual exam. These are the following modules covered in the course:

- Custom Model building Using SQL in BigQuery ML
- Custom Model building Utilizing Cloud AutoML
- Bigtable Streaming Features and High-Throughput BigQuery
- Performing Spark on Cloud Dataproc
- Introduction to Processing Streaming Data
- Big Data Analytics with Cloud AI Platform Notebook
- Handling Data Pipelines with Cloud Composer and Cloud Data Fusion
- Creating a Data Lake
- Cloud Dataflow Streaming Features
- Serverless Messaging Using Cloud Sub/Pub
- Building a Data Warehouse
- Introduction to Data Engineering
- Production ML Pipelines and use of Kubeflow
- Prebuilt ML Models APIs for Unsaturated Data

These modules involve everything the candidate requires for passing the Professional Data Engineer certification exam. Thus, you will not miss anything if you are taking this learning program keenly and apply the required knowledge in an appropriate way. You would end up getting a good score and achieving the Google Professional Data Engineer certification.

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Professional-Data-Engineer Exam Braindumps Convey All Important Information of Professional-Data-Engineer Exam

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Google Certified Professional Data Engineer Exam Sample Questions (Q375-Q380):

NEW QUESTION # 375

Case Study: 1 - Flowlogistic

Company Overview

Flowlogistic is a leading logistics and supply chain provider. They help businesses throughout the world manage their resources and transport them to their final destination. The company has grown rapidly, expanding their offerings to include rail, truck, aircraft, and oceanic shipping.

Company Background

The company started as a regional trucking company, and then expanded into other logistics market.

Because they have not updated their infrastructure, managing and tracking orders and shipments has become a bottleneck. To improve operations, Flowlogistic developed proprietary technology for tracking shipments in real time at the parcel level. However, they are unable to deploy it because their technology stack, based on Apache Kafka, cannot support the processing volume. In addition, Flowlogistic wants to further analyze their orders and shipments to determine how best to deploy their resources.

Solution Concept

Flowlogistic wants to implement two concepts using the cloud:

Use their proprietary technology in a real-time inventory-tracking system that indicates the location of their loads. Perform analytics on all their orders and shipment logs, which contain both structured and unstructured data, to determine how best to deploy resources, which markets to expand into. They also want to use predictive analytics to learn earlier when a shipment will be delayed.

Existing Technical Environment

Flowlogistic architecture resides in a single data center:

Databases

8 physical servers in 2 clusters

SQL Server - user data, inventory, static data

3 physical servers

Cassandra - metadata, tracking messages

10 Kafka servers - tracking message aggregation and batch insert

Application servers - customer front end, middleware for order/customs 60 virtual machines across 20 physical servers Tomcat -

Java services Nginx - static content Batch servers Storage appliances iSCSI for virtual machine (VM) hosts Fibre Channel storage

area network (FC SAN) ?SQL server storage Network-attached storage (NAS) image storage, logs, backups Apache Hadoop

/Spark servers Core Data Lake Data analysis workloads

20 miscellaneous servers

Jenkins, monitoring, bastion hosts,

Business Requirements

Build a reliable and reproducible environment with scaled parity of production. Aggregate data in a centralized Data Lake for analysis. Use historical data to perform predictive analytics on future shipments. Accurately track every shipment worldwide using proprietary technology. Improve business agility and speed of innovation through rapid provisioning of new resources. Analyze and optimize architecture for performance in the cloud. Migrate fully to the cloud if all other requirements are met. Technical Requirements. Handle both streaming and batch data. Migrate existing Hadoop workloads. Ensure architecture is scalable and elastic to meet the changing demands of the company.

Use managed services whenever possible

Encrypt data flight and at rest

Connect a VPN between the production data center and cloud environment. **SEO Statement** We have grown so quickly that our inability to upgrade our infrastructure is really hampering further growth and efficiency. We are efficient at moving shipments around the world, but we are inefficient at moving data around.

We need to organize our information so we can more easily understand where our customers are and what they are shipping.

CTO Statement

IT has never been a priority for us, so as our data has grown, we have not invested enough in our technology. I have a good staff to

manage IT, but they are so busy managing our infrastructure that I cannot get them to do the things that really matter, such as organizing our data, building the analytics, and figuring out how to implement the CFO's tracking technology.

CFO Statement

Part of our competitive advantage is that we penalize ourselves for late shipments and deliveries. Knowing where our shipments are at all times has a direct correlation to our bottom line and profitability.

Additionally, I don't want to commit capital to building out a server environment.

Flowlogic's CEO wants to gain rapid insight into their customer base so his sales team can be better informed in the field. This team is not very technical, so they've purchased a visualization tool to simplify the creation of BigQuery reports. However, they've been overwhelmed by all the data in the table, and are spending a lot of money on queries trying to find the data they need. You want to solve their problem in the most cost-effective way. What should you do?

- **A. Create a view on the table to present to the virtualization tool.**
- B. Create an additional table with only the necessary columns.
- C. Export the data into a Google Sheet for virtualization.
- D. Create identity and access management (IAM) roles on the appropriate columns, so only they appear in a query.

Answer: A

NEW QUESTION # 376

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. Redefine the schema by evenly distributing reads and writes across the row space of the table.**
- B. Redesign the schema to use a single row key to identify values that need to be updated frequently in the cluster.
- C. Redesign the schema to use row keys based on numeric IDs that increase sequentially per user viewing the offers.
- D. The performance issue should be resolved over time as the size of the Bigtable cluster is increased.

Answer: A

Explanation:

<https://cloud.google.com/bigtable/docs/performance#troubleshooting>

If you find that you're reading and writing only a small number of rows, you might need to redesign your schema so that reads and writes are more evenly distributed.

NEW QUESTION # 377

Your business users need a way to clean and prepare data before using the data for analysis. Your business users are less technically savvy and prefer to work with graphical user interfaces to define their transformations. After the data has been transformed, the business users want to perform their analysis directly in a spreadsheet. You need to recommend a solution that they can use. What should you do?

- A. Use Dataflow to clean the data, and write the results to BigQuery. Analyze the data by using Connected Sheets.
- B. Use Dataprep to clean the data, and write the results to BigQuery. Analyze the data by using Looker Studio.
- C. Use Dataflow to clean the data, and write the results to BigQuery. Analyze the data by using Looker Studio.
- **D. Use Dataprep to clean the data, and write the results to BigQuery. Analyze the data by using Connected Sheets.**

Answer: D

Explanation:

For business users who are less technically savvy and prefer graphical user interfaces, Dataprep is an ideal tool for cleaning and preparing data, as it offers a user-friendly interface for defining data transformations without the need for coding. Once the data is cleaned and prepared, writing the results to BigQuery allows for the storage and management of large datasets. Analyzing the data using Connected Sheets enables business users to work within the familiar environment of a spreadsheet, leveraging the power of BigQuery directly within Google Sheets. This solution aligns with the needs of the users and follows Google's recommended practices for data cleaning, preparation, and analysis.

Reference:

Connected Sheets | Google Sheets | Google for Developers

NEW QUESTION # 378

Which of these is not a supported method of putting data into a partitioned table?

- A. Run a query to get the records for a specific day from an existing table and for the destination table, specify a partitioned table ending with the day in the format "\$YYYYMMDD".
- B. Create a partitioned table and stream new records to it every day.
- C. Use ORDER BY to put a table's rows into chronological order and then change the table's type to "Partitioned".
- D. If you have existing data in a separate file for each day, then create a partitioned table and upload each file into the appropriate partition.

Answer: C

Explanation:

You cannot change an existing table into a partitioned table. You must create a partitioned table from scratch. Then you can either stream data into it every day and the data will automatically be put in the right partition, or you can load data into a specific partition by using "\$YYYYMMDD" at the end of the table name.

Reference: <https://cloud.google.com/bigquery/docs/partitioned-tables>

NEW QUESTION # 379

Your company needs to upload their historic data to Cloud Storage. The security rules don't allow access from external IPs to their on-premises resources. After an initial upload, they will add new data from existing on-premises applications every day. What should they do?

- A. Use Cloud Dataflow and write the data to Cloud Storage.
- B. Install an FTP server on a Compute Engine VM to receive the files and move them to Cloud Storage.
- C. Execute gsutil rsync from the on-premises servers.
- D. Write a job template in Cloud Dataproc to perform the data transfer.

Answer: C

NEW QUESTION # 380

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