Latest DP-203 Study Plan & DP-203 Official Practice Test

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One of the key benefits of the DP-203 exam is that it is recognized by Microsoft as a valid certification for data engineers who work with Azure. This means that individuals who pass the exam can demonstrate to potential employers that they have the skills and knowledge needed to be successful in this role. Additionally, Microsoft Azure is one of the most widely used cloud platforms in the world, so having a certification in this area can open up new career opportunities.

Microsoft DP-203 certification exam is a great way to showcase your expertise in data engineering on the Azure platform. By passing DP-203 exam, you will gain recognition for your skills and knowledge, which can help you advance your career in the field of data engineering. Data Engineering on Microsoft Azure certification is also valuable for organizations that want to hire data engineers with the expertise to design and implement scalable data solutions on Azure.

Microsoft DP-203 (Data Engineering on Microsoft Azure) Certification Exam is designed to test your knowledge and skills in building and maintaining data processing systems on the Microsoft Azure platform. DP-203 exam is intended for individuals who work as data engineers, data architects, or data analysts, and want to demonstrate their proficiency in designing and implementing data solutions on Azure.

>> Latest DP-203 Study Plan <<

To Prepare for the Microsoft Exam, Get Microsoft DP-203 Dumps

Are you planning to attempt the Microsoft DP-203 certification exam and don't know where to study for it and pass it with good marks? Pass4sures has designed the Data Engineering on Microsoft Azure (DP-203) Questions, especially for the students who want to pass the DP-203 Certification Exam with good marks in a short time. These Data Engineering on Microsoft Azure (DP-203) practice test questions are available in three different formats that you can carry with you anywhere and even do preparation in extra or free time with ease.

Microsoft Data Engineering on Microsoft Azure Sample Questions (Q50-Q55):

NEW QUESTION # 50
You need to integrate the on-premises data sources and Azure Synapse Analytics. The solution must meet the data integration requirements.
Which type of integration runtime should you use?

- A. Azure-SSIS integration runtime
- B. Azure integration runtime
- C. self-hosted integration runtime

Answer: B

Explanation:
Topic 2, Litware, inc.
Overview
This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.
To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.
At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.
To start the case study
To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an All Information tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the Question button to return to the question.
Overview
Litware, Inc. owns and operates 300 convenience stores across the US. The company sells a variety of packaged foods and drinks, as well as a variety of prepared foods, such as sandwiches and pizzas.
Litware has a loyalty club whereby members can get daily discounts on specific items by providing their membership number at checkout.
Litware employs business analysts who prefer to analyze data by using Microsoft Power BI, and data scientists who prefer analyzing data in Azure Databricks notebooks.
Requirements
Business Goals
Litware wants to create a new analytics environment in Azure to meet the following requirements:
See inventory levels across the stores. Data must be updated as close to real time as possible.
Execute ad hoc analytical queries on historical data to identify whether the loyalty club discounts increase sales of the discounted products.
Every four hours, notify store employees about how many prepared food items to produce based on historical demand from the sales data.
Technical Requirements
Litware identifies the following technical requirements:
Minimize the number of different Azure services needed to achieve the business goals.
Use platform as a service (PaaS) offerings whenever possible and avoid having to provision virtual machines that must be managed by Litware.
Ensure that the analytical data store is accessible only to the company's on-premises network and Azure services.
Use Azure Active Directory (Azure AD) authentication whenever possible.
Use the principle of least privilege when designing security.
Stage Inventory data in Azure Data Lake Storage Gen2 before loading the data into the analytical data store. Litware wants to remove transient data from Data Lake Storage once the data is no longer in use. Files that have a modified date that is older than 14 days must be removed.
Limit the business analysts' access to customer contact information, such as phone numbers, because this type of data is not analytically relevant.
Ensure that you can quickly restore a copy of the analytical data store within one hour in the event of corruption or accidental deletion.
Planned Environment
Litware plans to implement the following environment:
The application development team will create an Azure event hub to receive real-time sales data, including store number, date, time, product ID, customer loyalty number, price, and discount amount, from the point of sale (POS) system and output the data to data storage in Azure.
Customer data, including name, contact information, and loyalty number, comes from Salesforce, a SaaS application, and can be imported into Azure once every eight hours. Row modified dates are not trusted in the source table.
Product data, including product ID, name, and category, comes from Salesforce and can be imported into Azure once every eight

hours. Row modified dates are not trusted in the source table.

Daily inventory data comes from a Microsoft SQL server located on a private network.

Litware currently has 5 TB of historical sales data and 100 GB of customer data. The company expects approximately 100 GB of new data per month for the next year.

Litware will build a custom application named FoodPrep to provide store employees with the calculation results of how many prepared food items to produce every four hours.

Litware does not plan to implement Azure ExpressRoute or a VPN between the on-premises network and Azure.

NEW QUESTION # 51

You need to create a partitioned table in an Azure Synapse Analytics dedicated SQL pool.

How should you complete the Transact-SQL statement? To answer, drag the appropriate values to the correct targets. Each value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Reference:

https://docs.microsoft.com/en-us/sql/t-sql/statements/create-table-azure-sql-data-warehouse?

NEW QUESTION # 52

You have a Microsoft SQL Server database that uses a third normal form schema.

You plan to migrate the data in the database to a star schema in an Azure Synapse Analytics dedicated SQI pool.

You need to design the dimension tables. The solution must optimize read operations.

What should you include in the solution? to answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Explanation:

Box 1: Denormalize to a second normal form

Denormalization is the process of transforming higher normal forms to lower normal forms via storing the join of higher normal form relations as a base relation. Denormalization increases the performance in data retrieval at cost of bringing update anomalies to a database.

Box 2: New identity columns

The collapsing relations strategy can be used in this step to collapse classification entities into component entities to obtain #at dimension tables with single-part keys that connect directly to the fact table. The single- part key is a surrogate key generated to ensure it remains unique over time.

Example:

Note: A surrogate key on a table is a column with a unique identifier for each row. The key is not generated from the table data. Data modelers like to create surrogate keys on their tables when they design data warehouse models. You can use the IDENTITY property to achieve this goal simply and effectively without affecting load performance.

Reference:

https://www.mssqltips.com/sqlservertip/5614/explore-the-role-of-normal-forms-in-dimensional-modeling/

https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-tables- identity

NEW QUESTION # 53

A company uses the Azure Data Lake Storage Gen2 service.

You need to design a data archiving solution that meets the following requirements:

Data that is older than five years is accessed infrequency but must be available within one second when requested.

Data that is older than seven years in NOT accessed.

Costs must be minimized while maintaining the required availability.

How should you manage the data? To answer, select the appropriate option in he answers area.

NOTE: Each correct selection is worth one point.

Answer:

Explanation:
□
Explanation:
□

NEW QUESTION # 54
You are designing a slowly changing dimension (SCD) for supplier data in an Azure Synapse Analytics dedicated SQL pool.
You plan to keep a record of changes to the available fields.
The supplier data contains the following columns.
□
Which three additional columns should you add to the data to create a Type 2 SCD? Each correct answer presents part of the solution.
NOTE: Each correct selection is worth one point.

- A. foreign key
- B. business key
- C. effective end date
- D. effective start date
- E. last modified date
- F. surrogate primary key

Answer: C,D,F

Explanation:
Reference:
https://docs.microsoft.com/en-us/sql/integration-services/data-flow/transformations/slowly-changing- dimension-transformation

NEW QUESTION # 55
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The Microsoft DP-203 Certification is a valuable credential in the modern world. The Microsoft DP-203 certification exam offers a great opportunity for beginners and experienced professionals to validate their skills and knowledge level. With the one certification Data Engineering on Microsoft Azure exam you can upgrade your expertise and knowledge.

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