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Microsoft DP-600 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> • Maintain a data analytics solution: This section of the exam measures the skills of administrators and covers tasks related to enforcing security and managing the Power BI environment. It involves setting up access controls at both workspace and item levels, ensuring appropriate permissions for users and groups. Row-level, column-level, object-level, and file-level access controls are also included, alongside the application of sensitivity labels to classify data securely. This section also tests the ability to endorse Power BI items for organizational use and oversee the complete development lifecycle of analytics assets by configuring version control, managing Power BI Desktop projects, setting up deployment pipelines, assessing downstream impacts from various data assets, and handling semantic model deployments using XMLA endpoint. Reusable asset management is also a part of this domain.
Topic 2	<ul style="list-style-type: none"> • Prepare data: This section of the exam measures the skills of engineers and covers essential data preparation tasks. It includes establishing data connections and discovering sources through tools like the OneLake data hub and the real-time hub. Candidates must demonstrate knowledge of selecting the appropriate storage type—lakehouse, warehouse, or eventhouse—depending on the use case. It also includes implementing OneLake integrations with Eventhouse and semantic models. The transformation part involves creating views, stored procedures, and functions, as well as enriching, merging, denormalizing, and aggregating data. Engineers are also expected to handle data quality issues like duplicates, missing values, and nulls, along with converting data types and filtering. Furthermore, querying and analyzing data using tools like SQL, KQL, and the Visual Query Editor is tested in this domain.
Topic 3	<ul style="list-style-type: none"> • Implement and manage semantic models: This section of the exam measures the skills of architects and focuses on designing and optimizing semantic models to support enterprise-scale analytics. It evaluates understanding of storage modes and implementing star schemas and complex relationships, such as bridge tables and many-to-many joins. Architects must write DAX-based calculations using variables, iterators, and filtering techniques. The use of calculation groups, dynamic format strings, and field parameters is included. The section also includes configuring large semantic models and designing composite models. For optimization, candidates are expected to improve report visual and DAX performance, configure Direct Lake behaviors, and implement incremental refresh strategies effectively.

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Microsoft Implementing Analytics Solutions Using Microsoft Fabric Sample Questions (Q112-Q117):

NEW QUESTION # 112

You have a Fabric tenant that contains a machine learning model registered in a Fabric workspace. You need to use the model to generate predictions by using the predict function in a fabric notebook. Which two languages can you use to perform model scoring? Each correct answer presents a complete solution. NOTE: Each correct answer is worth one point.

- A. PySpark
- B. T-SQL
- C. Spark SQL
- D. DAX EC.

Answer: A,C

Explanation:

The two languages you can use to perform model scoring in a Fabric notebook using the predict function are Spark SQL (option C) and PySpark (option D). These are both part of the Apache Spark ecosystem and are supported for machine learning tasks in a Fabric environment. References = You can find more information about model scoring and supported languages in the context of Fabric notebooks in the official documentation on Azure Synapse Analytics.

NEW QUESTION # 113

You have a Fabric workspace that uses the default Spark starter pool and runtime version 1,2.

You plan to read a CSV file named Sales.raw.csv in a lakehouse, select columns, and save the data as a Delta table to the managed area of the lakehouse. Sales_raw.csv contains 12 columns.

You have the following code.

```
from pyspark.sql.functions import year

(spark
 .read
 .format("csv")
 .option("header", 'true')
 .load("Files/sales_raw.csv")
 .select('SalesOrderNumber', 'OrderDate', 'CustomerName', 'UnitPrice')
 .withColumn("Year", year("OrderDate"))
 .write
 .partitionBy('Year')
 .saveAsTable("Sales"))
```



For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Answer Area	Microsoft	Yes	No
Statements			
The Spark engine will read only the 'SalesOrderNumber', 'OrderDate', 'CustomerName', 'UnitPrice' columns from Sales_raw.csv.		<input type="radio"/>	<input type="radio"/>
Removing the partition will reduce the execution time of the query.		<input type="radio"/>	<input type="radio"/>
Adding inferSchema='true' to the options will increase the execution time of the query.		<input type="radio"/>	<input type="radio"/>

Answer:

Explanation:

Answer Area

Statements	Yes	No
The Spark engine will read only the 'SalesOrderNumber', 'OrderDate', 'CustomerName', 'UnitPrice' columns from Sales_raw.csv.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Removing the partition will reduce the execution time of the query.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Adding <code>inferSchema=true</code> to the options will increase the execution time of the query.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

NEW QUESTION # 114

You have a Fabric tenant named Tenant1 that contains a workspace named WS1. WS1 uses a capacity named C1 and contains a dataset named DS1. You need to ensure read-write access to DS1 is available by using the XMLA endpoint. What should be modified first?

- A. the DS1 settings
- B. the WS1 settings
- C. the C1 settings
- D. the Tenant1 settings

Answer: C

Explanation:

To ensure read-write access to DS1 is available by using the XMLA endpoint, the C1 settings (which refer to the capacity settings) should be modified first. XMLA endpoint configuration is a capacity feature, not specific to individual datasets or workspaces. References = The configuration of XMLA endpoints in Power BI capacities is detailed in the Power BI documentation on dataset management.

NEW QUESTION # 115

You have a Fabric tenant that contains a semantic model named model1. The two largest columns in model1 are shown in the following table.

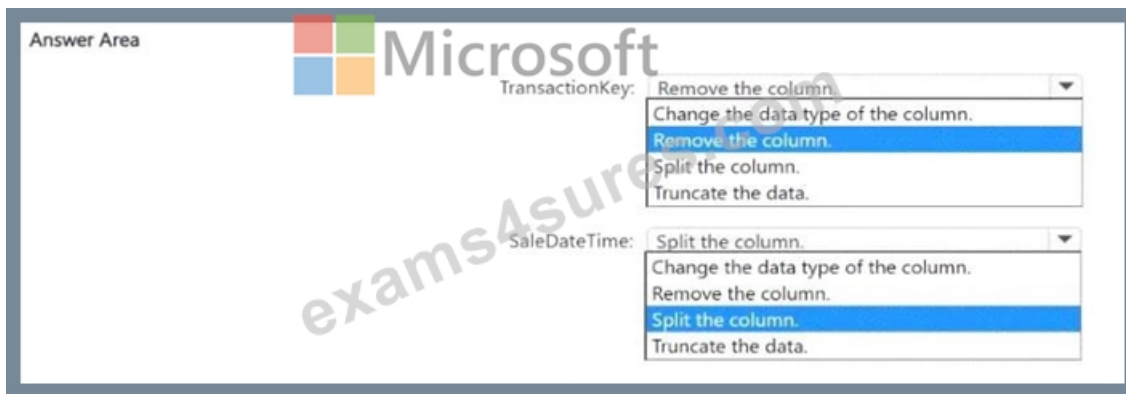
Name	Cardinality	Compressed size	Description
TransactionKey	2,500,350,000	760 GB	Contains an incrementing surrogate key for a fact table named SalesTransaction
SaleDateTime	6,850,273	120 GB	Contains the datetime (to the nearest second) of when a sale occurred

You need to optimize model 1. The solution must meet the following requirements:

- * Reduce the model size.
- * Increase refresh performance when using Import mode.
- * Ensure that the datetime value for each sales transaction is available in the model.

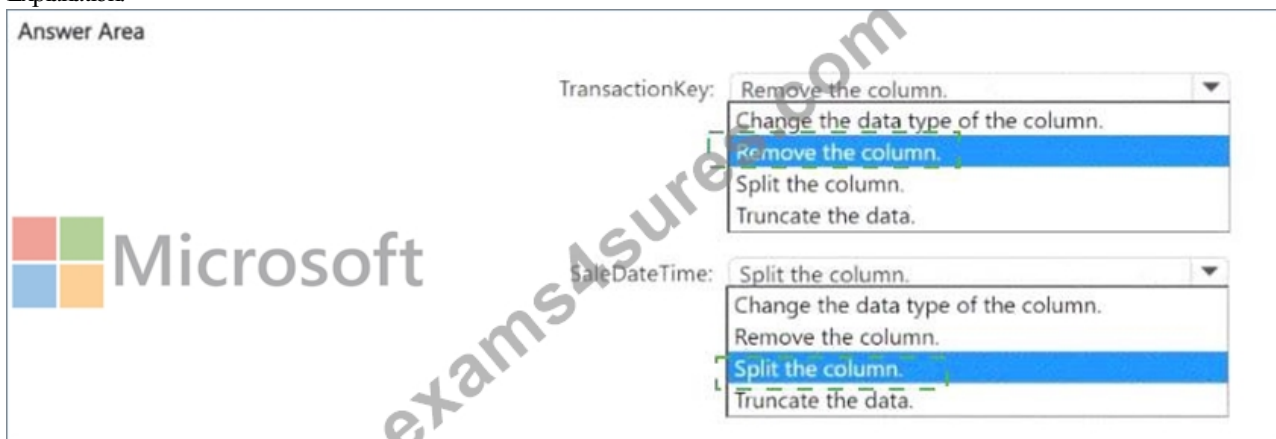
What should you do on each column? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.



Answer:

Explanation:



Explanation:



We are optimizing model in Fabric with two very large columns:

TransactionKey

Cardinality: 2.5 billion

Size: 160 GB

Description: surrogate key for SalesTransaction fact table.

SaleDateTime

Cardinality: 6.8 million

Size: 120 GB

Description: datetime (to the second) of when a sale occurred.

Goal:

Reduce model size.

Improve refresh performance (Import mode).

Ensure datetime values remain available.

Analysis per column

1. TransactionKey (very high cardinality)

Surrogate keys with extremely high cardinality do not add analytical value in a semantic model because they are not used in measures or grouping.

They take a lot of memory and reduce refresh performance.

Best practice: remove the column from the model.

2. SaleDateTime

Needed to analyze transactions by date and time.

However, storing the full datetime at second-level cardinality causes huge memory usage.

To optimize: split the column into Date and Time columns.

Reduces cardinality significantly.

Preserves full datetime information (can recombine if needed).

Improves compression and refresh speed.

Final Answer:

TransactionKey: Remove the column.

SaleDateTime: Split the column.

References:

Microsoft Fabric optimization guidance - reduce cardinality

Best practices for datetime optimization in semantic models

Answer Selection:

TransactionKey # Remove the column

SaleDateTime # Split the column

NEW QUESTION # 116

You have a Fabric tenant that contains a workspace named Workspace1 and a user named User1. User1 is assigned the Contributor role for Workspace1.

You plan to configure Workspace1 to use an Azure DevOps repository for version control.

You need to ensure that User1 can commit items to the repository.

Which two settings should you enable for User1? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Users can create and use Data workflows
- **B. Users can create Fabric items**
- C. Users can sync workspace items with GitHub repositories
- **D. Users can synchronize workspace items with their Git repositories**

Answer: B,D

NEW QUESTION # 117

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