

## **DP-203**<sup>Q&As</sup>

Data Engineering on Microsoft Azure

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### **QUESTION 1**

### **DRAG DROP**

You have an Apache Spark DataFrame named temperatures. A sample of the data is shown in the following table.

Date	Temp		
***	***		
18-01-2021	3		
19-01-2021	4		
20-01-2021	2		
21-01-2021	2		
***			

You need to produce the following table by using a Spark SQL query.

Year	JAN	FEB	MAR	APR	MAY
2019	2.3	4.1	5.2	7.6	9.2
2020	2.4	4.2	4.9	7.8	9.1
2021	2.6	5.3	3.4	7.9	9.5

How should you complete the query? 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.

Select and Place:



### Values Answer Area

```
SELECT * FROM (
          SELECT YEAR (Date) Year, MONTH (Date) Month, Temp
          FROM temperatures
CAST
          WHERE date BETWEEN DATE '2019-01-01' AND DATE '2021-08-31'
COLLATE
CONVERT
          AVG (
                         (Temp AS DECIMAL(4, 1)))
FLATTEN
          FOR Month in (
PIVOT
           1 JAN, 2 FEB, 3 MAR, 4 APR, 5 MAY, 6 JUN,
            7 JUL, 8 AUG, 9 SEP, 10 OCT, 11 NOV, 12 DEC
                    )
UNPIVOT
          ORDER BY Year ASC
```

Correct Answer:

### Values Answer Area

```
SELECT * FROM (
          SELECT YEAR (Date) Year, MONTH (Date) Month, Temp
          FROM temperatures
          WHERE date BETWEEN DATE '2019-01-01' AND DATE '2021-08-31'
COLLATE
          PIVOT
CONVERT
          AVG ( CAST
                         (Temp AS DECIMAL(4, 1)))
FLATTEN
          FOR Month in (
           1 JAN, 2 FEB, 3 MAR, 4 APR, 5 MAY, 6 JUN,
            7 JUL, 8 AUG, 9 SEP, 10 OCT, 11 NOV, 12 DEC
UNPIVOT
                    )
          ORDER BY Year ASC
```

#### **QUESTION 2**

You need to implement a Type 3 slowly changing dimension (SCD) for product category data in an Azure Synapse Analytics dedicated SQL pool. You have a table that was created by using the following Transact-SQL statement.

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```
CREATE TABLE [DBO].[DimProduct] (
[ProductKey] [int] IDENTITY(1,1) NOT NULL,
[ProductSourceID] [int] NOT NULL,
[ProductName] [nvarchar] (100) NULL,
[Color] [nvarchar] (15) NULL,
[SellStartDate] [date] NOT NULL,
[SellEndDate] [date] NULL,
[RowInsertedDateTime] [datetime] NOT NULL,
[RowUpdatedDateTime] [datetime] NOT NULL,
[ETLAuditID] [int] NOT NULL
```

Which two columns should you add to the table? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. [EffectiveStartDate] [datetime] NOT NULL,
- B. [CurrentProductCategory] [nvarchar] (100) NOT NULL,
- C. [EffectiveEndDate] [datetime] NULL,
- D. [ProductCategory] [nvarchar] (100) NOT NULL,
- E. [OriginalProductCategory] [nvarchar] (100) NOT NULL,

Correct Answer: BE

A Type 3 SCD supports storing two versions of a dimension member as separate columns. The table includes a column for the current value of a member plus either the original or previous value of the member. So Type 3 uses additional columns to track one key instance of history, rather than storing additional rows to track each change like in a Type 2 SCD.

This type of tracking may be used for one or two columns in a dimension table. It is not common to use it for many members of the same table. It is often used in combination with Type 1 or Type 2 members.

CustomerID	FirstName	LastName	CurrentEmail	OriginalEmail	CompanyName	InsertedDate	ModifiedDate
2	Keith	Harris	keith0@aw.com	keith0@aw.com	Progressive Sports	2021-03-20	2021-03-20
3	Donna	Carreras	donna0@aw.com	donna0@aw.com	A Bike Store	2021-03-20	2021-03-20
- 30	FirstName	LastName	CurrentEmail	OriginalEmail	CompanyName	InsertedDate	ModifiedDate
CustomerID	Firstivame	Lastivaille	Currenteman	OriginalEmail	Companyivame	mocrecubate	Widumedbate
CustomerID 2	Keith	Harris	keith0@aw.com	keith0@aw.com	Progressive Sports	2021-03-20	2021-03-20

Reference: https://k21academy.com/microsoft-azure/azure-data-engineer-dp203-q-a-day-2-live-session-review/

### **QUESTION 3**

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You are creating a new notebook in Azure Databricks that will support R as the primary language but will also support Scala and SQL. Which switch should you use to switch between languages?

A. %
B. @
C. \\[]
D. \\()
Correct Answer: A
To change the language in Databricks' cells to either Scala, SQL, Python or R, prefix the cell with '%', followed by the language.
%python //or r, scala, sql
Reference:
https://www.theta.co.nz/news-blogs/tech-blog/enhancing-digital-twins-part-3-predictive-maintenance-with-azure-databricks
QUESTION 4
You build a data warehouse in an Azure Synapse Analytics dedicated SQL pool.
Analysts write a complex SELECT query that contains multiple JOIN and CASE statements to transform data for use in inventory reports. The inventory reports will use the data and additional WHERE parameters depending on the report. The
reports will be produced once daily.
You need to implement a solution to make the dataset available for the reports. The solution must minimize query times.
What should you implement?
A. an ordered clustered columnstore index
B. a materialized view
C. result set caching
D. a replicated table

Materialized views for dedicated SQL pools in Azure Synapse provide a low maintenance method for complex analytical queries to get fast performance without any query change. Incorrect Answers:

C: One daily execution does not make use of result cache caching.

Note: When result set caching is enabled, dedicated SQL pool automatically caches query results in the user database for repetitive use. This allows subsequent query executions to get results directly from the persisted cache so



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recomputation is not needed. Result set caching improves query performance and reduces compute resource usage. In addition, queries using cached results set do not use any concurrency slots and thus do not count against existing concurrency limits.

Reference: https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/performance-tuning-materialized-views https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/performance-tuning-result-set-caching

#### **QUESTION 5**

You plan to create an Azure Data Factory pipeline that will include a mapping data flow. You have JSON data containing objects that have nested arrays.

You need to transform the JSON-formatted data into a tabular dataset. The dataset must have one tow for each item in the arrays. Which transformation method should you use in the mapping data flow?

A. unpivot

B. flatten

C. new branch

D. alter row

Correct Answer: B

Use the flatten transformation to take array values inside hierarchical structures such as JSON and unroll them into individual rows. This process is known as denormalization.

Reference: https://docs.microsoft.com/en-us/azure/data-factory/data-flow-flatten

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