

# DP-700: Implementing Data Engineering Solutions Using Microsoft Fabric Dumps & PassGuide DP-700 Examen



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## DP-700 Prüfungsfragen, DP-700 Fragen und Antworten, Implementing Data Engineering Solutions Using Microsoft Fabric

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### Microsoft DP-700 Prüfungsplan:

| Thema   | Einzelheiten                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Thema 1 | <ul style="list-style-type: none"><li>Implement and manage an analytics solution: This section of the exam measures the skills of Microsoft Data Analysts regarding configuring various workspace settings in Microsoft Fabric. It focuses on setting up Microsoft Fabric workspaces, including Spark and domain workspace configurations, as well as implementing lifecycle management and version control. One skill to be measured is creating deployment pipelines for analytics solutions.</li></ul> |
| Thema 2 | <ul style="list-style-type: none"><li>Monitor and optimize an analytics solution: This section of the exam measures the skills of Data Analysts in monitoring various components of analytics solutions in Microsoft Fabric. It focuses on tracking data ingestion, transformation processes, and semantic model refreshes while configuring alerts for error resolution. One skill to be measured is identifying performance bottlenecks in analytics workflows.</li></ul>                               |

|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Thema 3 | <ul style="list-style-type: none"> <li>• Ingest and transform data: This section of the exam measures the skills of Data Engineers that cover designing and implementing data loading patterns. It emphasizes preparing data for loading into dimensional models, handling batch and streaming data ingestion, and transforming data using various methods. A skill to be measured is applying appropriate transformation techniques to ensure data quality.</li> </ul> |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Microsoft Implementing Data Engineering Solutions Using Microsoft Fabric DP-700 Prüfungsfragen mit Lösungen (Q14-Q19):

### 14. Frage

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have a KQL database that contains two tables named Stream and Reference. Stream contains streaming data in the following format.

| Column name | Data type |
|-------------|-----------|
| Timestamp   | Datetime  |
| GeoLocation | Dynamic   |
| Temperature | Decimal   |
| DeviceId    | Int       |

Reference contains reference data in the following format.

| Column name | Data type |
|-------------|-----------|
| DeviceId    | Int       |
| DeviceName  | String    |

Both tables contain millions of rows.

You have the following KQL queryset.

```
01 Stream
02 | extend lat = todecimal(GeoLocation.Latitude), long = todecimal(GeoLocation.Longitude)
03 | join kind=inner Reference on DeviceId
04 | project Timestamp, lat, long, Temperature, DeviceName
05 | filter Temperature >= 10
06 | render scatterchart with (kind = map)
```

You need to reduce how long it takes to run the KQL queryset.

Solution: You add the `make_list()` function to the output columns.

Does this meet the goal?

- A. Yes
- B. No

**Antwort: B**

Begründung:

Adding an aggregation like `make_list()` would require additional processing and memory, which could make the query slower.

### 15. Frage

HOTSPOT

You have a Fabric workspace that contains a warehouse named DW1. DW1 contains the following tables and columns.

| Table name       | Column name  | Description                                    |
|------------------|--------------|------------------------------------------------|
| SalesOrderDetail | ProductID    | Contains the product ID of the ordered product |
| SalesOrderDetail | ModifiedDate | Contains the date of an order                  |
| SalesOrderDetail | OrderQty     | Contains the order quantity                    |
| Product          | ProductID    | Contains the unique ID of a product            |
| Product          | Name         | Contains a product name                        |

You need to create an output that presents the summarized values of all the order quantities by year and product. The results must include a summary of the order quantities at the year level for all the products.

How should you complete the code? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

#### Answer Area

(SO.ModifiedDate) AS OrderDate

SELECT CAST

SELECT CONVERT

SELECT YEAR

,P.Name AS ProductName

,SUM(SO.OrderQty) AS OrderQty

FROM [dbo].[SalesOrderDetail] SO

INNER JOIN [dbo].[Product] P

ON P.ProductID = SO.ProductID

GROUP BY

CUBE(YEAR(SO.ModifiedDate), P.Name)

(ROLLUP(SO.ModifiedDate, P.Name), (YEAR(SO.ModifiedDate)))

ROLLUP(YEAR(SO.ModifiedDate), P.Name)

YEAR(SO.ModifiedDate), P.Name

ORDER BY OrderDate

Antwort:

Begründung:

(SO.ModifiedDate) AS OrderDate

SELECT CAST

SELECT CONVERT

SELECT YEAR

,P.Name AS ProductName

,SUM(SO.OrderQty) AS OrderQty

FROM [dbo].[SalesOrderDetail] SO

INNER JOIN [dbo].[Product] P

ON P.ProductID = SO.ProductID

GROUP BY

CUBE(YEAR(SO.ModifiedDate), P.Name)

ROLLUP(SO.ModifiedDate, P.Name)

ROLLUP(YEAR(SO.ModifiedDate), P.Name)

YEAR(SO.ModifiedDate), P.Name

Microsoft

ORDER BY OrderDate

## 16. Frage

### DRAG DROP

You have a Fabric eventhouse that contains a KQL database. The database contains a table named TaxiData.

The following is a sample of the data in TaxiData.

| VendorID | time_pickup_datetime | time_dropoff_datetime | passenger_count | trip_distance | PULocationID | DOLocationID | payment_type | total_amount |
|----------|----------------------|-----------------------|-----------------|---------------|--------------|--------------|--------------|--------------|
| 2        | 2022-06-06T11:08:32Z | 2022-06-06T11:22:17Z  | 1               | 0.17          | 231          | 50           | 2            | 7.12         |
| 2        | 2022-06-06T11:12:05Z | 2022-06-06T11:20:43Z  | 1               | 1.02          | 161          | 163          | 1            | 10.56        |
| 1        | 2022-06-06T11:15:00Z | 2022-06-06T11:25:32Z  | 1               | 1.07          | 142          | 230          | 2            | 17.12        |
| 2        | 2022-06-06T11:29:54Z | 2022-06-06T11:49:34Z  | 2               | 2.07          | 162          | 236          | 2            | 12.01        |
| 1        | 2022-06-06T11:50:50Z | 2022-06-06T12:07:24Z  | 2               | 2.65          | 140          | 142          | 1            | 7.89         |

You need to build two KQL queries. The solution must meet the following requirements:

One of the queries must partition RunningTotalAmount by VendorID.

The other query must create a column named FirstPickupDateTime that shows the first value of each hour from time\_pickup\_datetime partitioned by payment\_type.

How should you complete each query? To answer, drag the appropriate values 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.

| Values             | Answer Area                                                                                     |
|--------------------|-------------------------------------------------------------------------------------------------|
| Row_cumsum         | Statement1:                                                                                     |
| Row_rank_dense     | TaxiData                                                                                        |
| Row_rank_min       | sort by VendorID asc                                                                            |
| Row_window_session | extend RunningTotalAmount = (total_amount, VendorID != prev(VendorID))                          |
|                    | Statement2:                                                                                     |
|                    | TaxiData                                                                                        |
|                    | sort by tpep_pickup_datetime asc, payment_type asc                                              |
|                    | extend FirstPickupDateTime = (tpep_pickup_datetime, 1h, 0m, payment_type != prev(payment_type)) |

Antwort:

Begründung:

| Values             | Answer Area                                                                                                        |
|--------------------|--------------------------------------------------------------------------------------------------------------------|
| Row_cumsum         | Statement1:                                                                                                        |
| Row_rank_dense     | TaxiData                                                                                                           |
| Row_rank_min       | sort by VendorID asc                                                                                               |
| Row_window_session | extend RunningTotalAmount = Row_cumsum (total_amount, VendorID != prev(VendorID))                                  |
|                    | Statement2:                                                                                                        |
|                    | TaxiData                                                                                                           |
|                    | sort by tpep_pickup_datetime asc, payment_type asc                                                                 |
|                    | extend FirstPickupDateTime = Row_window_session (tpep_pickup_datetime, 1h, 0m, payment_type != prev(payment_type)) |

Explanation:

| Values             | Answer Area                                                                                                        |
|--------------------|--------------------------------------------------------------------------------------------------------------------|
| Row_cumsum         | Statement1:                                                                                                        |
| Row_rank_dense     | TaxiData                                                                                                           |
| Row_rank_min       | sort by VendorID asc                                                                                               |
| Row_window_session | extend RunningTotalAmount = Row_cumsum (total_amount, VendorID != prev(VendorID))                                  |
|                    | Statement2:                                                                                                        |
|                    | TaxiData                                                                                                           |
|                    | sort by tpep_pickup_datetime asc, payment_type asc                                                                 |
|                    | extend FirstPickupDateTime = Row_window_session (tpep_pickup_datetime, 1h, 0m, payment_type != prev(payment_type)) |

Partition the RunningTotalAmount by VendorID. - Row\_cumsum

The Row\_cumsum function computes the cumulative sum of a column while optionally restarting the accumulation based on a condition. In this case, it calculates the cumulative sum of total\_amount for each VendorID, restarting when the VendorID changes (VendorID != prev(VendorID)).

```

TaxiData
| sort by VendorID asc
| extend RunningTotalAmount = Row_cumsum(total_amount, VendorID != prev(VendorID))

```

Create a column FirstPickupDateTime that shows the first value of each hour from tpep\_pickup\_datetime, partitioned by payment\_type - Row\_window\_session

```

TaxiData
| sort by tpep_pickup_datetime asc, payment_type asc
| extend FirstPickupDateTime = Row_window_session(tpep_pickup_datetime, 1h, 0m, payment_type != prev(payment_type))

```

## 17. Frage

You need to create a workflow for the new book cover images.

Which two components should you include in the workflow? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.



- A. a time-based schedule
- B. a streaming dataflow
- C. a blob storage action
- D. a data pipeline
- E. an activator item
- F. a notebook that uses Apache Spark Structured Streaming

Antwort: B,C

### 18. Frage

#### HOTSPOT

You have a Fabric workspace.

You are debugging a statement and discover the following issues:

Sometimes, the statement fails to return all the expected rows.

The PurchaseDate output column is NOT in the expected format of mm/dd, yy.

You need to resolve the issues. The solution must ensure that the data types of the results are retained. The results can contain blank cells.

How should you complete the statement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer Area**

SELECT

item\_id as ItemId

,convert(varchar(20), item\_name)
,convert(varchar(max), item\_name)
try\_cast(item\_name as varchar(20))

▼

as ItemName

,item\_description as ItemDescription

,convert(varchar, purchase\_date, 7)
,convert(varchar, purchase\_date, 109)
,convert(varchar, purchase\_date, 112)

▼

as PurchaseDate

FROM

Table1

WHERE

item\_type = @itemtype\_parameter

Antwort:

Begründung:

### Answer Area

SELECT

item\_id as ItemId

as ItemName  
,  
convert(varchar(20), item\_name)  
,  
convert(varchar(max), item\_name)  
,  
try\_cast(item\_name as varchar(20))  
,

item\_description as ItemDescription

as PurchaseDate  
,  
convert(varchar, purchase\_date, 7)  
,  
convert(varchar, purchase\_date, 109)  
,  
convert(varchar, purchase\_date, 112)

FROM

Table1

WHERE

item\_type = @itemtype\_parameter



Explanation:

### Answer Area

SELECT

item\_id as ItemId

as ItemName  
,  
convert(varchar(20), item\_name)  
,  
convert(varchar(max), item\_name)  
,  
try\_cast(item\_name as varchar(20))

, item\_description as ItemDescription

as PurchaseDate  
,  
convert(varchar, purchase\_date, 7)  
,  
convert(varchar, purchase\_date, 109)  
,  
convert(varchar, purchase\_date, 112)



FROM

Table1

WHERE

item\_type = @itemtype\_parameter

## 19. Frage

.....

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