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## Microsoft DP-700 Exam Syllabus Topics:

| Topic   | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Topic 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> |
| Topic 2 | <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>                                       |
| Topic 3 | <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>                               |

## Microsoft Implementing Data Engineering Solutions Using Microsoft Fabric Sample Questions (Q101-Q106):

### NEW QUESTION # 101

You have a KQL database that contains a table named Readings.

You need to build a KQL query to compare the Meter-Reading value of each row to the previous row base on the ilmestamp value  
A sample of the expected output is shown in the following table.

The screenshot displays a KQL query interface. On the left, a table named 'Readings' is shown with the following data:

| City   | Area  | MeterReading | Timestamp           | PrevMeterReading | PrevTimestamp       |
|--------|-------|--------------|---------------------|------------------|---------------------|
| Kansas | Area1 | 1500         | 2024-07-30 10:00:00 |                  |                     |
| Kansas | Area2 | 1520         | 2024-07-30 11:00:00 | 1500             | 2024-07-30 10:00:00 |

On the right, the 'Answer Area' shows a KQL query:

```

Readings
| filter City == "Kansas"
| extend Value = prev(MeterReading), PrevTimestamp = prev(Timestamp)
| project City, Area, MeterReading, Timestamp, PrevMeterReading, PrevTimestamp
  
```

**Answer:**

**Explanation:**

Values

- evaluate
- extend
- lookup
- project
- sort

Answer Area

Readings

```

| filter City == "Kansas"
| sort by Timestamp
| extend PrevMeterReading = prev(MeterReading),
PrevTimestamp = prev(Timestamp)
| project City, Area, MeterReading, Timestamp, PrevMeterReading, PrevTimestamp

```

Explanation:

Answer Area

Readings

```

| filter City == "Kansas"
| sort by Timestamp
| extend PrevMeterReading = prev(MeterReading),
PrevTimestamp = prev(Timestamp)
| project City, Area, MeterReading, Timestamp, PrevMeterReading, PrevTimestamp

```

## NEW QUESTION # 102

### HOTSPOT

You have a Fabric workspace that contains two lakehouses named Lakehouse1 and Lakehouse2. Lakehouse1 contains staging data in a Delta table named Orderlines. Lakehouse2 contains a Type 2 slowly changing dimension (SCD) dimension table named Dim\_Customer.

You need to build a query that will combine data from Orderlines and Dim\_Customer to create a new fact table named Fact\_Orders. The new table must meet the following requirements:

Enable the analysis of customer orders based on historical attributes.

Enable the analysis of customer orders based on the current attributes.

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
    orderlineid order_line_id
    ,OrderDate order_date
    ,c.customer key
    ,c.customer_id
    ,Quantity order_quantity
    ,unitPrice unit_price
    ,taxRate tax_rate
FROM
    Lakehouse1.orderlines o
INNER JOIN
    Lakehouse2.dim_customer c
    ON o.customerid = c.customer_id
```

AND

c.is\_current = 1  
o.OrderDate >= valid\_o\_datetime  
o.OrderDate >= ovalid\_o\_from\_datetime

AND

c.is\_current = 1  
o.OrderDate <= valid\_o\_datetime  
o.OrderDate <= ovalid\_o\_from\_datetime

Answer:

Explanation:

### Answer Area

```
SELECT
    orderlineid order_line_id
    ,OrderDate order_date
    ,c.customer key
    ,c.customer_id
    ,Quantity order_quantity
    ,unitPrice unit_price
    ,taxRate tax_rate
FROM
    Lakehouse1.orderlines o
INNER JOIN
    Lakehouse2.dim_customer c
    ON o.customerid = c.customer_id
```

AND

c.is\_current = 1  
o.OrderDate >= valid\_o\_datetime  
o.OrderDate >= ovalid\_o\_from\_datetime

AND

c.is\_current = 1  
o.OrderDate <= valid\_o\_datetime  
o.OrderDate <= ovalid\_o\_from\_datetime

Explanation:

## Answer Area

SELECT

```
OrderLineID order_line_id
,OrderDate order_date
,c.customer_key
,c.customer_id
,Quantity order_quantity
,UnitPrice unit_price
,TaxRate tax_rate
```

FROM

```
Lakehouse1.orderlines o
```

INNER JOIN

```
Lakehouse2.dim_customer c
```

```
ON o.customerid = c.customer_id
```

AND

```
c.is_current = 1
o.OrderDate > c.valid_to_datetime
o.OrderDate >= c.valid_from_datetime
```

AND

```
c.is_current = 1
o.OrderDate < c.valid_to_datetime
o.OrderDate <= c.valid_from_datetime
```

## NEW QUESTION # 103

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 Fabric eventstream that loads data into a table named Bike\_Location in a KQL database. The table contains the following columns:

You need to apply transformation and filter logic to prepare the data for consumption. The solution must return data for a neighbourhood named Sands End when No\_Bikes is at least 15. The results must be ordered by No\_Bikes in ascending order.

Solution: You use the following code segment:

```
bike_location
| filter Neighbourhood == "Sands End" and No_Bikes >= 15
| sort by No_Bikes
| project BikepointID, Street, Neighbourhood, No_Bikes, No_Empty_Docks, Timestamp
| project BikepointID, Street, Neighbourhood, No_Bikes, No_Empty_Docks, Timestamp
```

Does this meet the goal?

- A. no
- B. Yes

**Answer: A**

Explanation:

This code does not meet the goal because it uses sort by without specifying the order, which defaults to ascending, but explicitly mentioning asc improves clarity.

Correct code should look like:

```
bike_location
| filter Neighbourhood == "Sands End" and No_Bikes >= 15
| sort by No_Bikes asc
| project BikepointID, Street, Neighbourhood, No_Bikes, No_Empty_Docks, Timestamp
```

#### NEW QUESTION # 104

Your company has a team of developers. The team creates Python libraries of reusable code that is used to transform data.

You create a Fabric workspace name Workspace1 that will be used to develop extract, transform, and load (ETL) solutions by using notebooks.

You need to ensure that the libraries are available by default to new notebooks in Workspace1.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

| Actions                                               | Answer Area          |
|-------------------------------------------------------|----------------------|
| <input type="checkbox"/> Change the runtime version.  | <input type="text"/> |
| <input type="checkbox"/> Install the libraries.       | <input type="text"/> |
| <input type="checkbox"/> Create a pool.               | <input type="text"/> |
| <input type="checkbox"/> Create an environment.       |                      |
| <input type="checkbox"/> Set the default environment. |                      |

**Answer:**

Explanation:

| ACTIONS                                               | Answer Area                                           |
|-------------------------------------------------------|-------------------------------------------------------|
| <input type="checkbox"/> Change the runtime version.  | <input type="checkbox"/> Create an environment.       |
| <input type="checkbox"/> Install the libraries.       | <input type="checkbox"/> Install the libraries.       |
| <input type="checkbox"/> Create a pool.               | <input type="checkbox"/> Set the default environment. |
| <input type="checkbox"/> Create an environment.       |                                                       |
| <input type="checkbox"/> Set the default environment. |                                                       |

#### NEW QUESTION # 105

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 | tpep_pickup_datetime | tpep_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 tpep\_pickup\_datetime partitioned by payment\_type.

How should you complete each 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.

Row\_cumsum  
Row\_rank\_dense  
Row\_rank\_min  
Row\_window\_session

**Statement1:**

TaxiData  
| sort by VendorID asc  
| 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))

**Answer:**

**Explanation:**

Row\_cumsum  
Row\_rank\_dense  
Row\_rank\_min  
Row\_window\_session

**Statement1:**

TaxiData  
| sort by VendorID asc  
| 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:**

Row\_cumsum  
Row\_rank\_dense  
Row\_rank\_min  
Row\_window\_session

**Statement1:**

TaxiData  
| sort by VendorID asc  
| 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))
```

### NEW QUESTION # 106

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