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	Assignment No. : BL-35-203
	Q.3 Give the definition of yearbook? Explain its different types.
	ANS---- Abstracting provides summaries (abstracts) of documents to understand core content quickly, while indexing creates structured guides (keywords, headings) for locating specific information, with abstracts telling you what a document's about and indexes telling you where to find topics within it, saving users time by distilling information for selection or retrieval.
	Abstracting Services
	<ul style="list-style-type: none"><li>• Purpose: To condense a document's significant content (main ideas, methods, conclusions) into a brief summary (abstract).</li><li>• Output: An abstract - a shortened version of the original text.</li><li>• User Benefit: Helps users quickly determine a document's relevance and decide if they need to read the full text, saving evaluation time.</li><li>• Example: A journal providing short summaries of research articles.</li></ul>

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To successfully pass the DP-203 exam, candidates must have a deep understanding of Azure data services, including Azure Stream Analytics, Azure Data Factory, Azure Cosmos DB, and Azure Databricks. They must also be proficient in working with SQL and NoSQL databases, designing and implementing data security solutions, and conducting data analysis using Azure services. Candidates will be tested on their ability to design, implement, and monitor data solutions on Azure, as well as their ability to optimize and troubleshoot Azure data solutions.

## Why is it that important to be certified in the Microsoft DP-203 Exam?

The Microsoft Data Platform is evolving rapidly and expanding with Azure. The certification exams help you acquire the latest technologies and share your knowledge with others in the field. Getting these certifications has become a must-have badge as it creates your credibility in front of potential employers and clients. The exam covers topics like SQL Server 2014, Azure SQL Database, Azure SQL Data Warehouse, Analysis Services, and Reporting Services. The DP-203 Exam is an entry-level exam that tests the candidates on their ability to choose the right tools and techniques to meet business requirements. **Microsoft DP-203 Dumps** is designed to help students gain hands-on experience and develop skills to pass the DP-203 exam and earn the Microsoft Data Platform Certification. The DP-203 exam will be available in English only, at Prometric test centers globally. Before appearing

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>> **Real Microsoft DP-203 Exams** <<

## **100% Pass DP-203 - Data Engineering on Microsoft Azure Latest Real Exams**

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### **All the details of Microsoft DP-203 Exam Format?**

- Exam Format: multiple-choice
- Exam Duration: 130 minutes
- Language: English
- Exam Length: 40-60 question
- Passing score: 75%

### **Microsoft Data Engineering on Microsoft Azure Sample Questions (Q267-Q272):**

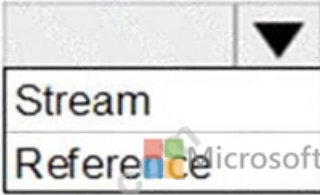
#### **NEW QUESTION # 267**

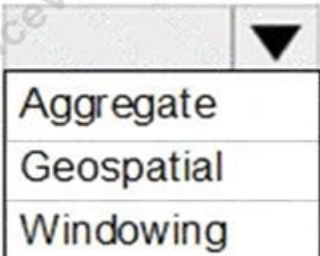
You plan to create a real-time monitoring app that alerts users when a device travels more than 200 meters away from a designated location.

You need to design an Azure Stream Analytics job to process the data for the planned app. The solution must minimize the amount of code developed and the number of technologies used.

What should you include in the Stream Analytics job? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Input type: 

Function: 

**Answer:**

**Explanation:**

Input type:

▼
Stream
Reference

Function:

▼
Aggregate
Geospatial
Windowing

Explanation:

Input type:

▼
Stream
Reference

Function:

▼
Aggregate
Geospatial
Windowing

Input type: Stream

You can process real-time IoT data streams with Azure Stream Analytics.

Function: Geospatial

With built-in geospatial functions, you can use Azure Stream Analytics to build applications for scenarios such as fleet management, ride sharing, connected cars, and asset tracking.

Note: In a real-world scenario, you could have hundreds of these sensors generating events as a stream.

Ideally, a gateway device would run code to push these events to Azure Event Hubs or Azure IoT Hubs.

Reference:

<https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-get-started-with-azure-stream-analytics-to-process-data-from-iot-devices>

<https://docs.microsoft.com/en-us/azure/stream-analytics/geospatial-scenarios>

### NEW QUESTION # 268

You implement an enterprise data warehouse in Azure Synapse Analytics.

You have a large fact table that is 10 terabytes (TB) in size.

Incoming queries use the primary key SaleKey column to retrieve data as displayed in the following table:

SaleKey	CityKey	CustomerKey	StockItemKey	InvoiceDateKey	Quantity	UnitPrice	TotalExcludingTax
49309	90858	70	69	10/22/13	8	16	128
49313	55710	126	69	10/22/13	2	16	32
49343	44710	234	68	10/22/13	10	16	160
49352	66109	163	70	10/22/13	4	16	64
49488	65312	230	70	10/22/13	8	16	128
49646	85877	271	70	10/24/13	1	16	16
49798	41238	288	69	10/24/13	1	16	16

You need to distribute the large fact table across multiple nodes to optimize performance of the table.  
Which technology should you use?

- A. hash distributed table with clustered index
- B. heap table with distribution replicate
- C. round robin distributed table with clustered index
- D. round robin distributed table with clustered Columnstore index
- E. hash distributed table with clustered Columnstore index

**Answer: E**

Explanation:

Explanation

Hash-distributed tables improve query performance on large fact tables.

Columnstore indexes can achieve up to 100x better performance on analytics and data warehousing workloads and up to 10x better data compression than traditional rowstore indexes.

Reference:

<https://docs.microsoft.com/en-us/azure/sql-data-warehouse/sql-data-warehouse-tables-distribute>

<https://docs.microsoft.com/en-us/sql/relational-databases/indexes/columnstore-indexes-query-performance>

#### NEW QUESTION # 269

You have a self-hosted integration runtime in Azure Data Factory.

The current status of the integration runtime has the following configurations:

Status: Running

Type: Self-Hosted

Running / Registered Node(s): 1/1

High Availability Enabled: False

Linked Count: 0

Queue Length: 0

Average Queue Duration: 0.00s

The integration runtime has the following node details:

Name: X-M

Status: Running

Available Memory: 7697MB

CPU Utilization: 6%

Network (In/Out): 1.21KBps/0.83KBps

Concurrent Jobs (Running/Limit): 2/14

Role: Dispatcher/Worker

Credential Status: In Sync

Use the drop-down menus to select the answer choice that completes each statement based on the information presented.


NOTE: Each correct selection is worth one point.

If the X-M node becomes unavailable, all executed pipelines will:

fail until the node comes back online
switch to another integration runtime
exceed the CPU limit

The number of concurrent jobs and the CPU usage indicate that the Concurrent Jobs (Running/Limit) value should be:

raised
lowered
left as is



**Answer:**


**Explanation:**

If the X-M node becomes unavailable, all executed pipelines will:

fail until the node comes back online
switch to another integration runtime
exceed the CPU limit

The number of concurrent jobs and the CPU usage indicate that the Concurrent Jobs (Running/Limit) value should be:

raised
lowered
left as is



**Reference:**

<https://docs.microsoft.com/en-us/azure/data-factory/create-self-hosted-integration-runtime>

### NEW QUESTION # 270

You are building an Azure Synapse Analytics dedicated SQL pool that will contain a fact table for transactions from the first half of the year 2020.

You need to ensure that the table meets the following requirements:

Minimizes the processing time to delete data that is older than 10 years Minimizes the I/O for queries that use year-to-date values

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

NOTE: Each correct selection is worth one point.

**Answer Area**

```
CREATE TABLE [dbo].[FactTransaction]
```

```
(  
    [TransactionTypeID]    int        NOT NULL  
,  
    [TransactionDateID]    int        NOT NULL  
,  
    [CustomerID]           int        NOT NULL  
,  
    [RecipientID]          int        NOT NULL  
,  
    [Amount]               money      NOT NULL  
)
```

WITH

```
(  
    CLUSTERED COLUMNSTORE INDEX  
    DISTRIBUTION  
    PARTITION  
    TRUNCATE_TARGET
```

```
(  
    [TransactionDateID]  
    [TransactionDateID], [TransactionTypeID]  
    HASH([TransactionTypeID])  
    ROUND_ROBIN
```

RANGE RIGHT FOR VALUES

```
(20200101,20200201,20200301,20200401,20200501,20200601)
```

**Answer:**

Explanation:



## Answer Area

```
CREATE TABLE [dbo].[FactTransaction]
```

```
(
```

```
    [TransactionTypeID]    int        NOT NULL
```

```
,    [TransactionDateID]    int        NOT NULL
```

```
,    [CustomerID]          int        NOT NULL
```

```
,    [RecipientID]         int        NOT NULL
```

```
,    [Amount]              money     NOT NU::
```

```
)
```

```
WITH
```

```
(
```

```
    CLUSTERED COLUMNSTORE INDEX
    DISTRIBUTION
    PARTITION
    TRUNCATE_TARGET
```

```
(
```

```
    [TransactionDateID]
    [TransactionDateID], [TransactionTypeID]
    HASH([TransactionTypeID])
    ROUND ROBIN
```

RANGE RIGHT FOR VALUES

```
(20200101,20200201,20200301,20200401,20200501,20200601)
```

## Explanation

Table Description automatically generated

WITH

```
(
```

```
    CLUSTERED COLUMNSTORE INDEX
    DISTRIBUTION
    PARTITION
    TRUNCATE_TARGET
```

```
(
```

```
    [TransactionDateID]
    [TransactionDateID], [TransactionTypeID]
    HASH([TransactionTypeID])
    ROUND ROBIN
```

RANGE RIGHT FOR VALUES

```
(20200101,20200201,20200301,20200401,20200501,20200601)
```

Box 1: PARTITION

RANGE RIGHT FOR VALUES is used with PARTITION.

Part 2: [TransactionDateID]

Partition on the date column.

Example: Creating a RANGE RIGHT partition function on a datetime column The following partition function partitions a table or index into 12 partitions, one for each month of a year's worth of values in a datetime column.

```
CREATE PARTITION FUNCTION [myDateRangePF1] (datetime)
```

```
AS RANGE RIGHT FOR VALUES ('20030201', '20030301', '20030401',
```

```
'20030501', '20030601', '20030701', '20030801',
```

```
'20030901', '20031001', '20031101', '20031201');
```

Reference:

<https://docs.microsoft.com/en-us/sql/t-sql/statements/create-partition-function-transact-sql>

NEW QUESTION # 271

You have an Azure Active Directory (Azure AD) tenant that contains a security group named Group1. You have an Azure Synapse Analytics dedicated SQL pool named dw1 that contains a schema named schema1.

You need to grant Group1 read-only permissions to all the tables and views in schema1. The solution must use the principle of least privilege.

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.

NOTE: More than one order of answer choices is correct. You will receive credit for any of the correct orders you select.

#### Actions

- Create a database role named Role1 and grant Role1 SELECT permissions to schema1.
- Create a database role named Role1 and grant Role1 SELECT permissions to dw1.
- Assign the Azure role-based access control (Azure RBAC) Reader role for dw1 to Group1.
- Create a database user in dw1 that represents Group1 and uses the FROM EXTERNAL PROVIDER clause.
- Assign Role1 to the Group1 database user.

#### Answer Area



#### Answer:

Explanation:

#### Actions

- Create a database role named Role1 and grant Role1 SELECT permissions to schema1.
- Create a database role named Role1 and grant Role1 SELECT permissions to dw1.
- Assign the Azure role-based access control (Azure RBAC) Reader role for dw1 to Group1.
- Create a database user in dw1 that represents Group1 and uses the FROM EXTERNAL PROVIDER clause.
- Assign Role1 to the Group1 database user.

#### Answer Area

- Create a database role named Role1 and grant Role1 SELECT permissions to schema1.
- Assign Role1 to the Group1 database user.
- Assign the Azure role-based access control (Azure RBAC) Reader role for dw1 to Group1.

Reference:

<https://docs.microsoft.com/en-us/azure/data-share/how-to-share-from-sql>

#### NEW QUESTION # 272

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