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Vendor:Microsoft

Exam Code:70-765

Exam Name:Provisioning SQL Databases

Version:Demo

QUESTION 1

You use Microsoft SQL Server 2014 to develop a database application. You need to create an object that meets the following requirements: Which object should you use?

- A. Scalar-valued function
- B. Inline function
- C. User-defined data type
- D. Stored procedure

Correct Answer: D

Stored procedures accept input parameters and return multiple values in the form of output parameters to the calling program. They cannot be used in views. References: <https://docs.microsoft.com/en-us/sql/relational-databases/stored-procedures/stored-procedures-database-engine>

QUESTION 2

You are building a new Always On Availability Group in Microsoft Azure. The corporate domain controllers (DCs) are attached to a virtual network named ProductionNetwork. The DCs are part of an availability set named ProductionServers1.

You create the first node of the availability group and add it to an availability set named ProductionServers2. The availability group node is a virtual machine (VM) that runs Microsoft SQL Server. You attach the node to ProductionNetwork.

The servers in the availability group must be directly accessible only by other company VMs in Azure.

You need to configure the second SQL Server VM for the availability group.

How should you configure the VM? To answer, drag the appropriate configuration settings to the correct target locations. Each configuration setting 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:

Configuration settings

None/Not Assigned
ProductionServers1
ProductionNetwork
ProductionServers2
Create a new Object


VM settings page

Settings _ □ X

Storage


Disk type 

Standard Premium (SSD)

* Storage account  >

(new) sqlstorage3

Network

* Virtual network  >

* Subnet  >

ProductionServers (10.1.0.0/24)

* Public IP address  >

* Network security group  >


(new) SQLServers

Extensions

Extensions  >

No extensions

Monitoring

Diagnostics 

Disabled Enabled

Availability

* Availability set  >

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Correct Answer:

Configuration settings


ProductionServers1

Create a new Object


VM settings page

Settings

Storage


Disk type 

Standard Premium (SSD)


* Storage account 

(new) sqlstorage3


Network

* Virtual network 


ProductionNetwork

* Subnet 

ProductionServers (10.1.0.0/24)


* Public IP address 

None/Not Assigned

* Network security group 


(new) SQLServers

Extensions

Extensions 

No extensions


Monitoring

Diagnostics 

Disabled

Enabled

Availability

* Availability set 

ProductionServers2

OK

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Box 1: ProductionNetwork

The virtual network is named ProductionNetwork.

Box 2: None /Not Assigned

As the servers in the availability group must be directly accessible only by other company VMs in Azure, there should be no Public IP address.

Box 3: ProductionServer2

You create the first node of the availability group and add it to an availability set named ProductionServers2. The availability group node is a virtual machine (VM) that runs Microsoft SQL Server.

QUESTION 3

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 sections, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are migrating an on-premises Microsoft SQL Server instance to SQL Server on a Microsoft Azure virtual machine. The instance has 30 databased that consume a total of 2 TB of disk space.

The instance sustains more than 30,000 transactions per second.

You need to provision storage for the virtual machine. The storage must be able to support the same load as the on-premises deployment.

Solution: You create one storage account that has 30 containers. You create a VHD in each container.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Each Storage Account handles up to 20,000 IOPS, and 500TB of data. References: <https://www.tech-coffee.net/understand-microsoft-azure-storage-for-virtual-machines/>

QUESTION 4

You plan to migrate a Microsoft SQL server instance between physical servers.

You must migrate the metadata associated with the database instance.

You need to ensure that the new instance retains the existing jobs and alerts.

Solutions: You restore the msdb database.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: A

The msdb database is used by SQL Server Agent for scheduling alerts and jobs and by other features such as SQL Server Management Studio, Service Broker and Database Mail.

References: <https://docs.microsoft.com/en-us/sql/relational-databases/databases/msdb-database?view=sql-server-2017>

QUESTION 5

You plan to migrate a Microsoft SQL server instance between physical servers.

You must migrate the metadata associated with the database instance.

You need to ensure that the new instance retains the existing jobs and alerts.

Solutions: You restore the master database.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

The master database does not handle alerts and jobs. It records all the system-level information for a SQL Server system. This includes instance-wide metadata such as logon accounts, endpoints, linked servers, and system configuration settings.

The msdb database is used by SQL Server Agent for scheduling alerts and jobs and by other features such as SQL Server Management Studio, Service Broker and Database Mail.

References: <https://docs.microsoft.com/en-us/sql/relational-databases/databases/msdb-database?view=sql-server-2017>

QUESTION 6

You manage an on-premises Microsoft SQL server that has a database named DB1. An application named App1 retrieves customer information for DB1.

Users report that App1 takes an unacceptably long time to retrieve customer records.

You need to find queries that take longer than 400 ms to run.

Which statement should you execute?

- A.

```
SELECT qp.query_plan,
       qs.*
FROM   (
        SELECT TOP 50 *
        FROM sys.dm_exec_query_stats
        ORDER BY total_worker_time DESC
       ) AS qs
CROSS APPLY sys.dm_exec_query_plan(qs.plan_handle) AS qp
WHERE (qs.max_worker_time > 400
       OR qs.max_elapsed_time > 400)
```
- B.

```
SELECT pa.DatabaseID, SUM(qs.total_worker_time/100) AS [CPU_Time_Ms]
FROM sys.dm_exec_query_stats AS qs
     CROSS APPLY (SELECT CONVERT(int, value) AS [DatabaseID]
                  FROM sys.dm_exec_plan_attributes(qs.plan_handle)
                  WHERE attribute_name = 'dbid') AS pa
GROUP BY pa.DatabaseID
HAVING SUM(qs.total_worker_time/1000) > 400
ORDER BY 2 DESC
```
- C.

```
SELECT qp.query_plan,
       qs.*
FROM   (
        SELECT TOP 50 *
        FROM sys.dm_exec_query_stats
        ORDER BY total_worker_time DESC
       ) AS qs
CROSS APPLY sys.dm_exec_query_plan(qs.plan_handle) AS qp
WHERE (qs.max_logical_reads > 400
       OR qs.max_logical_reads > 400)
```
- D.

```
SELECT TOP 50 *
FROM sys.dm_exec_query_stats AS qs
WHERE (qs.max_physical_reads > 400
       OR qs.max_physical_reads > 400)
ORDER BY total_worker_time DESC
```

Which statement should you execute?

- A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: B

Total_worker_time: Total amount of CPU time, reported in microseconds (but only accurate to milliseconds), that was consumed by executions of this plan since it was compiled.

QUESTION 7

You administer a Microsoft SQL Server 2014 database instance.

You plan to migrate the database to Windows Azure SQL Database. You verify that all objects contained in the database are compatible with Windows Azure SQL Database. You need to ensure that database users and required server logins

are migrated to Windows Azure SQL Database.

What should you do?

- A. Use the copy database wizard
- B. Use the Database Transfer wizard
- C. Use SQL Server Management Studio to deploy the database to Windows Azure SQL Database
- D. Backup the database from the local server and restore it to Windows Azure SQL Database

Correct Answer: C

You would need to use either the SQL Server Management Studio or Transact-SQL. References:
<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-cloud-migrate>

QUESTION 8

You manage a Microsoft SQL Server environment with several databases.

You need to ensure that queries use statistical data and do not initialize values for local variables.

Solution: you set the value of the MAXDOP parameter to 2.

Does the solution meet the goal?

- A. Yes
- B. No

Correct Answer: B

When an instance of SQL Server runs on a computer that has more than one microprocessor or CPU, it detects the best degree of parallelism, that is, the number of processors employed to run a single statement, for each parallel plan execution. You can use the max degree of parallelism (MAXDOP) option to limit the number of processors to use in parallel plan execution.

References: <https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/configure-the-max-degree-of-parallelism-server-configuration-option?view=sql-server-2017>

QUESTION 9

You use a Microsoft Azure SQL database as a data warehouse. The database is in the Standard service tier and has 400 elastic database throughput units (eDTUs).

You load data to the database by using Azure Data Factory.

You need to reduce the amount of time it takes to load the data.

Solution: You move the database to a Premium database pool that has 125 DTUs.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

We need at least 400 eDTUs.

QUESTION 10

You administer a Microsoft SQL Server 2016 instance.

You need to configure a new database to support FILETABLES.

What should you do? Choose all that apply.

A. Disable FILESTREAM on the Database.

B. Enable FILESTREAM on the Server Instance.

C. Configure the Database for Partial Containment.

D. Create a non-empty FILESTREAM file group.

E. Enable Contained Databases on the Server Instance.

F. Set the FILESTREAM directory name on the Database.

Correct Answer: BDF

References: <https://docs.microsoft.com/en-us/sql/relational-databases/blob/enable-the-prerequisites-for-filetable>

QUESTION 11

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution. Determine whether the solution meets stated goals.

Your company plans to use Microsoft Azure Resource Manager templates for all future deployments of SQL Server on Azure virtual machines.

You need to create the templates.

Solution: You use Visual Studio to create a JSON template that defines the deployment and configuration settings for the SQL Server environment.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: A

Azure Resource Manager template consists of JSON, not XAML, and expressions that you can use to construct values for your deployment.

A good JSON editor can simplify the task of creating templates.

Note: In its simplest structure, an Azure Resource Manager template contains the following elements:

```
{  
"$schema": "http://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#",  
"contentVersion": "",  
"parameters": {},  
"variables": {},  
"resources": [],  
"outputs": {}  
}
```

References: <https://docs.microsoft.com/en-us/azure/azure-resource-manager/resourcegroup-authoring-templates>

QUESTION 12

You need to create the contosodb1 database.

How should you complete the Azure PowerShell command? To answer, select the appropriate Azure PowerShell segments in the answer area.

Hot Area:

Answer Area

	▼
New-AzureSqlDatabase	
New-AzureRmSqlDatabase	
Set-AzureRmSqlDatabase	

- ResourceGroupName "contosodbrg"

- ServerName "contososrv"

- DatabaseName "contosodbl"

- Edition

	▼
Basic	
Standard	
Premium	

- RequestedServiceObjectName S2

Correct Answer:

Answer Area

	▼
New-AzureSqlDatabase	
New-AzureRmSqlDatabase	
Set-AzureRmSqlDatabase	

- ResourceGroupName "contosodbrg"

- ServerName "contososrv"

- DatabaseName "contosodbl"

- Edition

	▼
Basic	
Standard	
Premium	

- RequestedServiceObjectName S2

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