



DP-300^{Q&As}

Administering Relational Databases on Microsoft Azure

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**QUESTION 1**

You have an Azure subscription that contains two instances of SQL Server on Azure Virtual Machines named VM1 and VM2. Both instances run Microsoft SQL Server 2019 CU8.

You need to deploy a failover cluster instance (FCI) to VM1 and VM2 that will use Azure shared disks. The solution must maximize resiliency.

Which quorum option should you use?

- A. node majority with a cloud witness
- B. node majority with no witness
- C. node majority with a file share witness
- D. node majority with a disk witness

Correct Answer: D

Configure quorum

Since the disk witness is the most resilient quorum option, and the FCI solution uses Azure shared disks, it's recommended to configure a disk witness as the quorum solution.

Reference: <https://learn.microsoft.com/en-us/azure/azure-sql/virtual-machines/windows/failover-cluster-instance-azure-shared-disks-manually-configure>

QUESTION 2

You have an Azure SQL database.

You identify a long running query.

You need to identify which operation in the query is causing the performance issue.

What should you use to display the query execution plan in Microsoft SQL Server Management Studio (SSMS)?

- A. Live Query Statistics
- B. an estimated execution plan
- C. an actual execution plan
- D. Client Statistics

Correct Answer: A

<https://www.mssqltips.com/sqlservertip/3685/live-query-statistics-in-sql-server-2016/>

QUESTION 3



DRAG DROP

You have an Azure subscription.

You need to deploy an Azure SQL managed instance by using an Azure Resource Manager (ARM) template. The solution must meet the following requirements:

1.

The SQL managed instance must be assigned a unique identity.

2.

The SQL managed instance must be available in the event of an Azure datacenter outage.

How should you complete the template? 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

```
{
  "type": "Microsoft.Sql/managedInstances",
  "identity": {
    "type": 
  },
  "dependsOn": [
    "[parameters('virtualNetworkName')]"
  ],
  "properties": {
    "administratorLogin": "[parameters('administratorLogin')]",
    "administratorLoginPassword": "[parameters('administratorLoginPassword')]",
    "subnetId": "[resourceId('Microsoft.Network/virtualNetworks/subnets',
    parameters('virtualNetworkName'), parameters('subnetName'))]",
    "storageSizeInGB": 8192,
    "vCores": 80, "licenseType": "BasePrice",
     : "True"
  }
}
```

Correct Answer:



Values

Answer Area

```
{
  "type": "Microsoft.Sql/managedInstances",
  "identity": {
    "type": "SystemAssigned"
  },
  "dependsOn": [
    "[parameters('virtualNetworkName')]"
  ],
  "properties": {
    "administratorLogin": "[parameters('administratorLogin')]",
    "administratorLoginPassword": "[parameters('administratorLoginPassword')]",
    "subnetId": "[resourceId('Microsoft.Network/virtualNetworks/subnets',
    parameters('virtualNetworkName'), parameters('subnetName'))]",
    "storageSizeInGB": 8192,
    "vCores": 80, "licenseType": "BasePrice",
    "zoneRedundant": "True"
  }
}
```

Box 1: "SystemAssigned"

managedInstances, property value: identity

The Azure Active Directory identity of the managed instance.

ResourceIdentity

The identity type. Set this to '\\SystemAssigned\\' in order to automatically create and assign an Azure Active Directory principal for the resource.



Possible values:

\\None\\

\\SystemAssigned\\

\\SystemAssigned,UserAssigned\\

\\UserAssigned\\

Box 2: "zoneRedundant"

ManagedInstanceProperties include:

* zoneRedundant

Whether or not the multi-az is enabled.

Zone-redundant storage (ZRS) replicates your storage account synchronously across three Azure availability zones in the primary region. Each availability zone is a separate physical location with independent power, cooling, and networking.

Incorrect:

* dnsZonePartner

The resource id of another managed instance whose DNS zone this managed instance will share after creation.

Reference: <https://learn.microsoft.com/en-us/azure/templates/microsoft.sql/managedinstances?pivots=deployment-language-bicep>

<https://learn.microsoft.com/en-us/azure/storage/common/storage-redundancy>

QUESTION 4

You have an Azure Synapse Analytics dedicated SQL pool.

You run `PDW_SHOWSPACEUSED(\\'dbo.FactInternetSales\\')`; and get the results shown in the following table.



ROWS	RESERVED_SPACE	DATA_SPACE	INDEX_SPACE	UNUSED_SPACE	PDW_NODE_ID	DISTRIBUTION_ID
694	2776	616	48	2112	1	1
407	2704	576	48	2080	1	2
53	2376	512	16	1848	1	3
58	2376	512	16	1848	1	4
168	2632	528	32	2072	1	5
195	2696	536	32	2128	1	6
5995	3464	1424	32	2008	1	7
0	2232	496	0	1736	1	8
264	2576	544	40	1992	1	9
3008	3016	960	32	2024	1	10
...
1550	2832	752	48	2032	1	50
1238	2832	696	40	2096	1	51
192	2632	528	32	2072	1	52
1127	2768	680	48	2040	1	53
1244	3032	704	64	2264	1	54
409	2632	568	32	2032	1	55
0	2232	496	0	1736	1	56
1437	2832	728	40	2064	1	57
0	2232	496	0	1736	1	58
384	2632	560	32	2040	1	59
225	2768	544	40	2184	1	60

Which statement accurately describes the dbo.FactInternetSales table?

- A. The table contains less than 10,000 rows.
- B. All distributions contain data.
- C. The table uses round-robin distribution
- D. The table is skewed.

Correct Answer: D

The rows per distribution can vary up to 10% without a noticeable impact on performance. Here the distribution varies more than 10%. It is skewed.

Note: SHOWSPACEUSED displays the number of rows, disk space reserved, and disk space used for a specific table, or for all tables in a Azure Synapse Analytics or Parallel Data Warehouse database. This is a very quick and simple way to

see the number of table rows that are stored in each of the 60 distributions of your database. Remember that for the most balanced performance, the rows in your distributed table should be spread evenly across all the distributions.

ROUND_ROBIN distributed tables should not be skewed. Data is distributed evenly across the nodes by design.

Reference:

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

<https://github.com/rgl/azure-content/blob/master/articles/sql-data-warehouse/sql-data-warehouse-manage-distributed-data-skew.md>



QUESTION 5

You have an Azure SQL database named sqldb1.

You need to minimize the amount of space by the data and log files of sqldb1.

What should you run?

- A. DBCC SHRINKDATABASE
- B. sp_clean_db_free_space
- C. sp_clean_db_file_free_space
- D. DBCC SHRINKFILE

Correct Answer: A

DBCC SHRINKDATABASE shrinks the size of the data and log files in the specified database. Incorrect Answers:

D: To shrink one data or log file at a time for a specific database, execute the DBCC SHRINKFILE command.

Reference: <https://docs.microsoft.com/en-us/sql/t-sql/database-console-commands/dbcc-shrinkdatabase-transact-sql>

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