DP-300^{Q&As}

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Administering Relational Databases on Microsoft Azure

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QUESTION 1

You are planning a solution that will use Azure SQL Database. Usage of the solution will peak from October 1 to January 1 each year. During peak usage, the database will require the following:

1.

24 cores

2.

500 GB of storage

3.

124 GB of memory

4.

More than 50,000 IOPS

During periods of off-peak usage, the service tier of Azure SQL Database will be set to Standard.

Which service tier should you use during peak usage?

A. Business Critical

B. Premium

C. Hyperscale

Correct Answer: A

Reference: https://docs.microsoft.com/en-us/azure/azure-sql/database/resource-limits-vcore-single-databases#business-critical---provisioned-compute---gen4

QUESTION 2

You have the following Transact-SQL query.

```
SELECT
    [file_id] AS [File ID],
    [type] AS [File Type],
    substring([physical_name], 1,1) AS [Drive],
    [name] AS [Logical Name],
    [physical_name] AS [Physical Name],
    CAST([size] as DECIMAL(38,0))/128.0 AS [ColumnA],
    CAST(FILEPROPERTY([name], 'SpaceUsed') AS DECIMAL(38,0))/128.0 AS
[ColumnB],
    (CAST([size] AS DECIMAL(38,0))/128.0) - (CAST(FILEPROPERTY([name],
'SpaceUsed') AS DECIMAL (38,0))/128.0) AS [ColumnC],
    [max_size] AS [ColumnD],
    [is_percent_growth] AS [Percent Growth Enabled],
    [growth] AS [Growth Rate],
    SYSDATETIME() AS [Current Date]
FROM sys.database_files;
```

Which column returned by the query represents the free space in each file?

A. ColumnA

B. ColumnB

C. ColumnC

D. ColumnD

Correct Answer: C

Example:

Free space for the file in the below query result set will be returned by the FreeSpaceMB column.

SELECT DB_NAME() AS DbName,

name AS FileName,

type_desc,

size/128.0 AS CurrentSizeMB,

size/128.0 - CAST(FILEPROPERTY(name, \\'SpaceUsed\\') AS INT)/128.0 AS FreeSpaceMB FROM sys.database_files

WHERE type IN (0,1);

Reference:

https://www.sqlshack.com/how-to-determine-free-space-and-file-size-for-sql-server-databases/

QUESTION 3

You have an Always On availability group deployed to Azure virtual machines. The availability group contains a database named DB1 and has two nodes named SQL1 and SQL2. SQL1 is the primary replica.

You need to initiate a full backup of DB1 on SQL2.

Which statement should you run?

A. BACKUP DATABASE DB1 TO URL=\\'https://mystorageaccount.blob.core.windows.net/ mycontainer/DB1.bak\\' with (Differential, STATS=5, COMPRESSION);

B. BACKUP DATABASE DB1 TO URL=\\'https://mystorageaccount.blob.core.windows.net/ mycontainer/DB1.bak\\' with (COPY_ONLY, STATS=5, COMPRESSION);

C. BACKUP DATABASE DB1 TO URL=\\'https://mystorageaccount.blob.core.windows.net/ mycontainer/DB1.bak\\' with (File_Snapshot, STATS=5, COMPRESSION);

D. BACKUP DATABASE DB1 TO URL=\\'https://mystorageaccount.blob.core.windows.net/ mycontainer/DB1.bak\\' with (NoInit, STATS=5, COMPRESSION);

Correct Answer: B

BACKUP DATABASE supports only copy-only full backups of databases, files, or filegroups when it\\'s executed on secondary replicas. Copy-only backups don\\'t impact the log chain or clear the differential bitmap. Incorrect Answers:

A: Differential backups are not supported on secondary replicas. The software displays this error because the secondary replicas support copy-only database backups.

Reference:

https://docs.microsoft.com/en-us/sql/database-engine/availability-groups/windows/active-secondaries- backup-on-secondary-replicas-always-on-availability-groups

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QUESTION 4

DRAG DROP

You have an Azure subscription that contains an Azure SQL managed instance, a database named db1, and an Azure web app named Appl. Appl uses db1.

You need to enable Resource Governor for a App1. The solution must meet the following requirements:

App1 must be able to consume all available CPU resources.

App1 must have at least half of the available CPU resources always available.

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.

Select and Place:

Answer Area

```
"resources": [

    {

        "type": "Microsoft.Sql/servers",

        ...

    {

        "type": "Microsoft.Sql/servers/firewallRules",

        "apiVersion": "2021-02-01-preview",

        "name": "[concat(parameters('servers_a400m10102_name'),
        '/AllowAllWindowsAzureIps')]",
        "dependsOn": [

          "[resourceId('Microsoft.Sql/servers', parameters
            ('servers_a400m10102_name'))]"



        ],

        "properties": {

            "startIpAddress":  [  ▼  ]
                                  [ ... ]
                                  [ "0.0.0.0" ]
                                  [ "255.255.255.255" ]

            "endIpAddress":    [  ▼  ]
        }                         [ ... ]
                                  [ "0.0.0.0" ]
    }                             [ "255.255.255.255" ]

]
```

Correct Answer:

Answer Area

MSX:

SQL database
SQL managed instances
SQL virtual machines

TSX:

SQL database
SQL managed instances
SQL virtual machines

QUESTION 5

You have a version-8.0 Azure Database for MySQL database.

You need to identify which database queries consume the most resources.

Which tool should you use?

A. Query Store

B. Metrics

C. Query Performance Insight

D. Alerts

Correct Answer: A

The Query Store feature in Azure Database for MySQL provides a way to track query performance over time. Query Store simplifies performance troubleshooting by helping you quickly find the longest running and most resource-intensive queries. Query Store automatically captures a history of queries and runtime statistics, and it retains them for your review. It separates data by time windows so that you can see database usage patterns. Data for all users, databases, and queries is stored in the mysql schema database in the Azure Database for MySQL instance.

Reference: https://docs.microsoft.com/en-us/azure/mysql/concepts-query-store

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