DP-200^{Q&As}

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Implementing an Azure Data Solution

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QUESTION 1

You implement an Azure SQL Data Warehouse instance.

You plan to migrate the largest fact table to Azure SQL Data Warehouse. The table resides on Microsoft SQL Server on-premises and is 10 terabytes (TB) is size.

Incoming queries use the primary key Sale Key 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
49448	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 ColumnStore index

B. hash distributed table with clustered index

C. heap table with distribution replicate

D. round robin distributed table with clustered index

E. round robin distributed table with clustered ColumnStore index

Correct Answer: A

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.

Incorrect Answers:

D, E: Round-robin tables are useful for improving loading speed.

References: 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

QUESTION 2

A company has a SaaS solution that uses Azure SQL Database with elastic pools. The solution contains a dedicated database for each customer organization. Customer organizations have peak usage at different periods during the year.

You need to implement the Azure SQL Database elastic pool to minimize cost.

Which option or options should you configure?

A. Number of transactions only

B. eDTUs per database only

C. Number of databases only

D. CPU usage only

E. eDTUs and max data size

Correct Answer: E

The best size for a pool depends on the aggregate resources needed for all databases in the pool. This involves determining the following:

Maximum resources utilized by all databases in the pool (either maximum DTUs or maximum vCores depending on your choice of resourcing model).

Maximum storage bytes utilized by all databases in the pool.

Note: Elastic pools enable the developer to purchase resources for a pool shared by multiple databases to accommodate unpredictable periods of usage by individual databases. You can configure resources for the pool based either on the

DTU-based purchasing model or the vCore-based purchasing model.

References:

https://docs.microsoft.com/en-us/azure/sql-database/sql-database-elastic-pool

QUESTION 3

HOTSPOT

You have an enterprise data warehouse in Azure Synapse Analytics that contains a table named FactOnlineSales. The table contains data from the start of 2009 to the end of 2012.

You need to improve the performance of queries against FactOnlineSales by using table partitions. The solution must meet the following requirements:

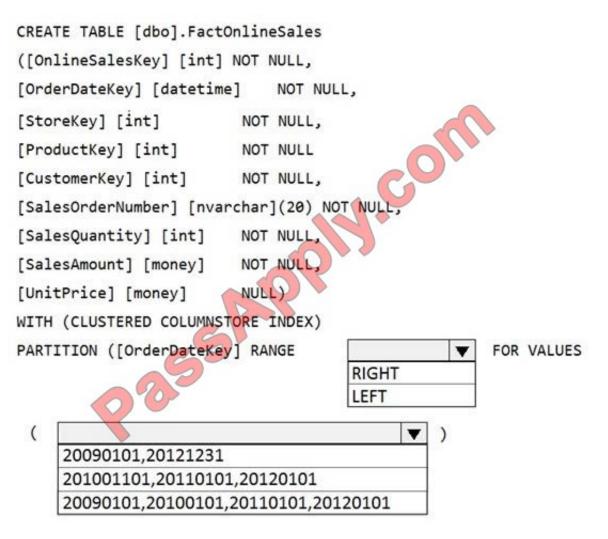1.

Create four partitions based on the order date.

2.

Ensure that each partition contains all the orders placed during a given calendar year.

How should you complete the T-SQL command? To answer, select the appropriate options in the answer area.
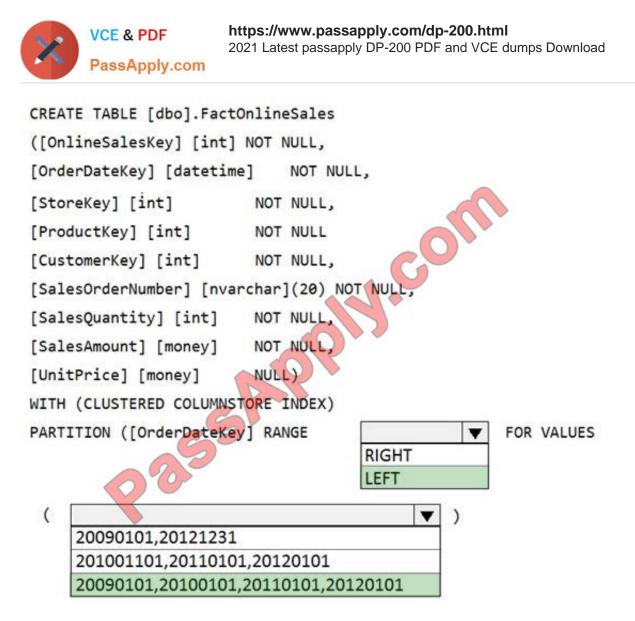
NOTE: Each correct selection is worth one point.

Hot Area:

```
CREATE TABLE [dbo].FactOnlineSales
([OnlineSalesKey] [int] NOT NULL,
[OrderDateKey] [datetime]    NOT NULL,
[StoreKey] [int]        NOT NULL,
[ProductKey] [int]      NOT NULL
[CustomerKey] [int]     NOT NULL,
[SalesOrderNumber] [nvarchar](20) NOT NULL,
[SalesQuantity] [int]    NOT NULL,
[SalesAmount] [money]    NOT NULL,
[UnitPrice] [money]      NULL)
WITH (CLUSTERED COLUMNSTORE INDEX)
PARTITION ([OrderDateKey] RANGE    [ ▼ ]    FOR VALUES
                                   RIGHT
                                   LEFT

(    [ ▼ ]    )
     20090101,20121231
     201001101,20110101,20120101
     20090101,20100101,20110101,20120101
```

Correct Answer:

```
CREATE TABLE [dbo].FactOnlineSales
([OnlineSalesKey] [int] NOT NULL,
[OrderDateKey] [datetime]    NOT NULL,
[StoreKey] [int]         NOT NULL,
[ProductKey] [int]       NOT NULL
[CustomerKey] [int]      NOT NULL,
[SalesOrderNumber] [nvarchar](20) NOT NULL,
[SalesQuantity] [int]    NOT NULL,
[SalesAmount] [money]    NOT NULL,
[UnitPrice] [money]      NULL)
WITH (CLUSTERED COLUMNSTORE INDEX)
PARTITION ([OrderDateKey] RANGE          ▼    FOR VALUES
                                  RIGHT
                                  LEFT
```

```
(    ▼  )
   20090101,20121231
   201001101,20110101,20120101
   20090101,20100101,20110101,20120101
```

Box 1: LEFT

RANGE LEFT: Specifies the boundary value belongs to the partition on the left (lower values). The default is LEFT.

Box 2: 20090101, 20100101, 20110101, 20120101

FOR VALUES (boundary_value [,...n]) specifies the boundary values for the partition. boundary_value is a constant expression.

Reference:

https://docs.microsoft.com/en-us/sql/t-sql/statements/create-table-azure-sql-data-warehouse

QUESTION 4

SIMULATION Use the following login credentials as needed:

Azure Username: xxxxx Azure Password: xxxxx The following information is for technical support purposes only:

Lab Instance: 10277521

You plan to create large data sets on db2.

You need to ensure that missing indexes are created automatically by Azure in db2. The solution must apply ONLY to db2.

To complete this task, sign in to the Azure portal.

Correct Answer: See the below.

Explanation:

1. To enable automatic tuning on Azure SQL Database logical server, navigate to the server in Azure portal and then select Automatic tuning in the menu.

2.

 Select database db2

3.

 Click the Apply button

Reference: https://docs.microsoft.com/en-us/azure/sql-database/sql-database-automatic-tuning-enable

QUESTION 5

You plan to create an Azure Databricks workspace that has a tiered structure. The workspace will contain the following three workloads:

A workload for data engineers who will use Python and SQL

A workload for jobs that will run notebooks that use Python, Spark, Scala, and SQL

A workload that data scientists will use to perform ad hoc analysis in Scala and R

The enterprise architecture team at your company identifies the following standards for Databricks environments:

The data engineers must share a cluster.

The job cluster will be managed by using a request process whereby data scientists and data engineers provide packaged notebooks for deployment to the cluster.

All the data scientists must be assigned their own cluster that terminates automatically after 120 minutes of inactivity. Currently, there are three data scientists.

You need to create the Databrick clusters for the workloads.

Solution: You create a Standard cluster for each data scientist, a High Concurrency cluster for the data engineers, and a High Concurrency cluster for the jobs.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

We need a High Concurrency cluster for the data engineers and the jobs.

Note:

Standard clusters are recommended for a single user. Standard can run workloads developed in any language: Python, R, Scala, and SQL.

A high concurrency cluster is a managed cloud resource. The key benefits of high concurrency clusters are that they provide Apache Spark-native fine-grained sharing for maximum resource utilization and minimum query latencies.

References:

https://docs.azuredatabricks.net/clusters/configure.html

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