70-465^{Q&As}

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Designing Database Solutions for Microsoft SQL Server

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QUESTION 1

You have a database hosted on SQL Server 2012 R2. The database contains 5 million rows. You need to recommend a repeatable method to migrate the database to SQL Azure.

Which method should you recommend? More than one answer choice may achieve the goal. Select the BEST answer.

A. Create a SQL Server Integration Services (SSIS) package, and then run the package.

B. Back up the database, and then restore the database.

C. Extract a data-tier application, and then import the application.

D. Generate scripts to create all of the all database objects and all of the data, and then execute the scripts by using SQL Azure.

Correct Answer: A

SQL Server Integration Services Most flexibility Data Transfer Efficiency: Good / SSIS can be used to perform a broad range of data migration tasks. SSIS provides support for complex workflow and data transformation between the source and destination. It is a good choice to transfer of data for databases that require many changes to work on Microsoft Azure SQL Database. You can use SSIS data transfer packages with another mechanism for transferring the database schema, such as a

Data-tier Application package.

SSIS for Azure and Hybrid Data Movement

Incorrect:

Not D: Generate Scripts Wizard

Has explicit option for Azure SQL Database scripts generation Data Transfer Efficiency: Poor

Good for smaller database

/ Using the Generate Scripts wizard to migrate a SQL Server database to Azure SQL Database should be limited to:

Teams who have experience with the wizard.

Migrating simple databases that need few schema changes to run on Azure SQL Database. The scripts generated from the source database can be modified before being used to create the new version of the database on Azure SQL

Database, but using a database project in the SQL Server Data Tools has richer support for making schema changes.

Migrating small databases that do not have much data. The wizard generates scripts that use insert statements instead of bulk copies to transfer the data. The insert statements can be throttled when the tables contain too much data, and are

not as fast as bulk copies.

QUESTION 2

You need to recommend a solution that addresses the file storage requirements. What should you include in the recommendation?

A. FileStream

B. FileTable

C. The varbinary data type

D. The image data type

Correct Answer: B

*

Scenario: File Storage Requirements

The ERP database stores scanned documents that are larger than 2 MB. These files must only be accessed through the ERP application. File access must have the best possible read and write performance.

*

FileTables remove a significant barrier to the use of SQL Server for the storage and management of unstructured data that is currently residing as files on file servers. Enterprises can move this data from file servers into FileTables to take

advantage of integrated administration and services provided by SQL Server. At the same time, they can maintain Windows application compatibility for their existing Windows applications that see this data as files in the file system.

QUESTION 3

You need to recommend a change to USP_3 to ensure that the procedure completes only if all of the UPDATE statements complete. Which change should you recommend?

A. Set the XACT_ABORT option to off.

B. Set the XACT_ABORT option to on.

C. Set the IMPLICIT_TRANSACTIONS option to off.

D. Set the IMPLICIT_TRANSACTIONS option to on.

Correct Answer: B

*

Scenario: A stored procedure named USP_3 is used to update prices. USP_3 is composed of several UPDATE statements called in sequence from within a transaction. Currently, if one of the UPDATE statements fails, the stored procedure continues to execute.

*

When SET XACT_ABORT is ON, if a Transact-SQL statement raises a run-time error, the entire transaction is terminated and rolled back.

QUESTION 4

You are designing a Windows Azure SQL Database for an order fulfillment system. You create a table named Sales.Orders with the following script.

```
CREATE TABLE Sales.Orders
(
    OrderID int IDENTITY(1,1) NOT NULL PRIMARY KEY,
    OrderDate datetimeoffset NOT NULL,
    CustomerID int NOT NULL
);
```

Each order is tracked by using one of the following statuses:

Fulfilled

Shipped

Ordered

Received

You need to design the database to ensure that that you can retrieve the following information:

The current status of an order

The previous status of an order.

The date when the status changed.

The solution must minimize storage.

More than one answer choice may achieve the goal. Select the BEST answer.

A. To the Sales.Orders table, add three columns named Status, PreviousStatus and ChangeDate. Update rows as the order status changes.

B. Create a new table named Sales.OrderStatus that contains three columns named OrderID, StatusDate, and Status. Insert new rows into the table as the order status changes.

C. Implement change data capture on the Sales.Orders table.

D. To the Sales.Orders table, add three columns named FulfilledDate, ShippedDate, and ReceivedDate. Update the value of each column from null to the appropriate date as the order status changes.

Correct Answer: B

QUESTION 5

You use SQL Server 2014. You create a table within a database by using the following DDL:

```
CREATE TABLE OrderData
(
OrderID INT IDENTITY(1,1) Primary Key Clustered
OrderDate SMALLDATETIME NOT NULL DEFAULT getdate(),
CustomerID INT,
IsTaxable INT,
SubTotal SmallMoney DEFAULT (0),
TaxAmount AS (Case IsTaxable when 1 then SubTotal * .0875 else NULL END),
Freight SmallMoney,
OrderReturnedDate DATE,
OrderReturnedCustReason TEXT,
OrderReturnedEval Varchar(MAX)
)
```

The following table illustrates a representative sample of data:

OrderID	OrderDate	CustomerID	IsTaxable	SubTotal	TaxAmount	Freight
1	11/13/2013 11:22	58465	NULL	$ 25.99	NULL	$ 5.40
2	11/15/2013 9:34	12588	NULL	$ 42.00	NULL	NULL
3	12/1/2013 14:34	85477	NULL	23.99	NULL	$ 4.85
4	12/17/2013 4:31	58742	NULL	$ 19.00	NULL	NULL
5	1/3/2014 8:22	12477	NULL	$ 13.50	NULL	$ 5.40
6	1/5/2014 18:39	63214	NULL	$ 5.69	NULL	NULL
7	1/15/2014 14:22	85471	NULL	$ 18.99	NULL	$ 7.85
8	1/19/2014 3:20	85413	NULL	$ 65.77	NULL	NULL
9	1/22/2014 13:44	12588	NULL	$ 22.38	NULL	$ 7.35
10	1/28/2014 10:14	85471	1	$ 24.99	$ 2.19	$ 5.40

The system is expected to handle 50 million orders a month over the next five years.

You have been instructed by your Team Lead to follow best practices for storage and performance in the utilization of SPARSE columns.

Which columns should you designate as SPARSE? To answer, mark each column as SPARSE or NOT SPARSE in the answer area.

Hot Area:

Answer Area

Column Names	Sparse	Not Sparse
OrderID	◯	◯
OrderDate	◯	◯
CustomerID	◯	◯
IsTaxable	◯	◯
SubTotal	◯	◯
TaxAmount	◯	◯
Freight	◯	◯

Correct Answer:

Answer Area

Column Names	Sparse	Not Sparse
OrderID	◯	◯ (selected)
OrderDate	◯	◯ (selected)
CustomerID	◯	◯ (selected)
IsTaxable	◯ (selected)	◯
SubTotal	◯	◯ (selected)
TaxAmount	◯ (selected)	◯
Freight	◯ (selected)	◯

Note:

Sparse columns are ordinary columns that have an optimized storage for null values. Sparse columns reduce the space requirements for null values at the cost of more overhead to retrieve nonnull values. Consider using sparse columns

when the space saved is at least 20 percent to 40 percent.

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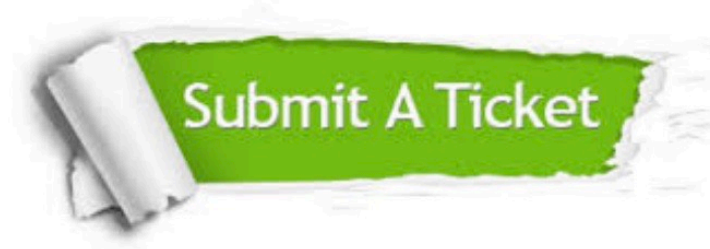To Read the Whole Q&As, please purchase the Complete Version from Our website.

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