70-767^{Q&As}

Implementing a Data Warehouse using SQL

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QUESTION 1

You are administering SQL Server Integration Services (SSIS) permissions on a production server that runs SQL Server 2016.

Package developers in your company must have permission to perform the following tasks only on their own projects:

View projects and packages, View Environments, Validate packages, Execute packages.

You need to grant rights to the developers without assigning unnecessary privileges.

What should you do? (Each correct answer presents part of a solution. Choose all that apply.)

A. Add developer logins to the db_ssisltduser role in the msdb database.

B. Add developer logins to the db_ssisoperator role in the msdb database.

C. Grant Execute permission in the projects for the developer logins.

D. Grant Read permission in the SSIS catalog folder, the projects, and the Environments.

E. Add developer logins to the ssis_admin role in the SSISDB database.

F. Grant Modify permission in the projects for the developer logins.

Correct Answer: BD

Explanation: B: db_ssisoperator

*

 Read actions

Enumerate all packages.

View all packages.

Execute all packages.

Export all packages.

Execute all packages in SQL Server Agent.

*

 Write actions

None

D: Need read permissions on the Environments in order to be able to view them.

Incorrect:

Not A: db_ssisltduser

*

 Read actions

Enumerate own packages.

Enumerate all packages.

View own packages.

Execute own packages.

Export own packages.

*

 Write Actions

Import packages.

Delete own packages.

Change own package roles.

Not E: db_ssisadmin

Too many permissions (such as delete all packages).

QUESTION 2

A SQL Server Integration Services (SSIS) package imports daily transactions from several files into a SQL Server table named Transaction. Each file corresponds to a different store and is imported in parallel with the other files. The data flow tasks use OLE DB destinations in fast load data access mode.

The number of daily transactions per store can be very large and is growing. The Transaction table does not have any indexes.

You need to minimize the package execution time.

What should you do?

A. Partition the table by day and store.

B. Create a clustered index on the Transaction table.

C. Run the package in Performance mode.

D. Increase the value of the Row per Batch property.

Correct Answer: D

Explanation: * Data Access Mode ?This setting provides the \\'fast load\\' option which internally uses a BULK INSERT statement for uploading data into the destination table instead of a simple INSERT statement (for each single row) as in the case for other options.

* BULK INSERT parameters include:

ROWS_PER_BATCH =rows_per_batch

Indicates the approximate number of rows of data in the data file. By default, all the data in the data file is sent to the server as a single transaction, and the number of rows in the batch is unknown to the query optimizer. If you specify

ROWS_PER_BATCH (with a value > 0) the server uses this value to optimize the bulk- import operation. The value specified for ROWS_PER_BATCH should approximately the same as the actual number of rows.

QUESTION 3

Note: This question is part of a series of questions that use the same or similar answer choices. An answer choice may be correct for more than one question in the series. Each question is independent of the other questions in this series.

Information and details provided in a question apply only to that question.

You are loading data from an OLTP database to a data warehouse.

The OLTP database includes a table (or sales data and a table for refund data.

The data warehouse contains a single table for all the sales and refund data.

Which component should you use to load the data to the data warehouse?

A. the Slowly Changing Dimension transformation

B. the Conditional Split transformation

C. the Merge transformation

D. the Data Conversion transformation

E. an Execute SQL task

F. the Aggregate transformation

G. the Lookup transformation

Correct Answer: C

The Merge transformation combines two sorted datasets into a single dataset. The rows from each dataset are inserted into the output based on values in their key columns.

By including the Merge transformation in a data flow, you can merge data from two data sources, such as tables and files.

References: https://docs.microsoft.com/en-us/sql/integration-services/data-flow/transformations/merge-transformation?view=sql-server-2017

QUESTION 4

You administer a Microsoft SQL Server 2016 database. The database contains a table that has the following definition:

```
CREATE TABLE [Sales].[Customer](
    [CustomerID] int NOT NULL,
    [CustomerName] nvarchar(50) NOT NULL,
    [TerritoryID] int NULL,
    [LastContactDate] datetimeoffset NULL,
    [CustomerType] nchar(1) NOT NULL,
    [Notes] varchar(250) NULL
)
```

You want to export data from the table to a flat file by using the SQL Server Import and Export Wizard. You need to ensure that the following requirements are met:

The first row of the file contains the first row of data.

Each record is of the same length.

The date follows the U.S. date format.

The file supports international characters.

What should you do? (To answer, simply select the option or options in the answer area that you would configure.)

Correct Answer: Tick the "Unicode" checkbox. Set the Format option to "Fixed Width" Untick the "Column names in the first data row" checkbox.

Each record is of the same length = Fixed Width.

The file supports international characters = Unicode.

The date follows the U.S. date format = Locale (already configured).

The first row of the file contains the first row of data = Uncheck "Column names in the first data row"

QUESTION 5

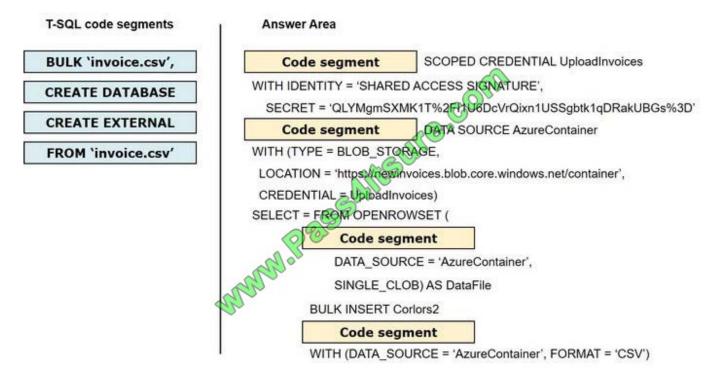A company plans to load data from a CSV file that is stored in a Microsoft Azure Blob storage container.

You need to load the data.

How should you complete the Transact-SQL statement? To answer, drag the appropriate Transact-SQL segments to the correct locations. Each Transact-SQL segment may be used once, more than once, or not at all. You may need to drag
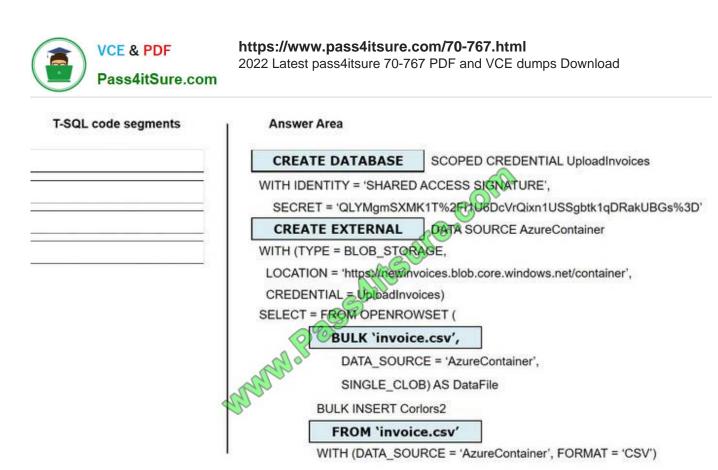
the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Correct Answer:

T-SQL code segments

Answer Area

| CREATE DATABASE | SCOPED CREDENTIAL UploadInvoices
WITH IDENTITY = 'SHARED ACCESS SIGNATURE',
SECRET = 'QLYMgmSXMK1T%2FJU6DcVrQixn1USSgbtk1qDRakUBGs%3D'

| CREATE EXTERNAL | DATA SOURCE AzureContainer
WITH (TYPE = BLOB_STORAGE,
LOCATION = 'https://newinvoices.blob.core.windows.net/container',
CREDENTIAL = UploadInvoices)
SELECT = FROM OPENROWSET (

| BULK 'invoice.csv', |
            DATA_SOURCE = 'AzureContainer',
            SINGLE_CLOB) AS DataFile

BULK INSERT Corlors2

| FROM 'invoice.csv' |
WITH (DATA_SOURCE = 'AzureContainer', FORMAT = 'CSV')

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