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Querying Microsoft SQL Server 2012/2014

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QUESTION 1

You have a SQL Server database named CUSTOMERS.

You need to sign a stored procedure named SelectCustomers in the CUSTOMERS database.

Which four statements should you execute in sequence? To answer, move the appropriate statements from the list of statements to the answer area and arrange them in the correct order.
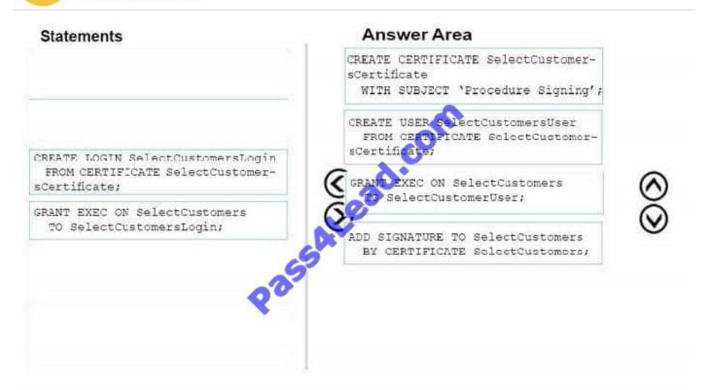
Select and Place:

Statements	Answer Area
ADD SIGNATURE TO SelectCustomers BY CERTIFICATE SelectCustomers;	
GRANT EXEC ON SelectCustomers TO SelectCustomerUser;	
CREATE LOGIN SelectCustomersLogin FROM CERTIFICATE SelectCustomersCertificate;	
GRANT EXEC ON SelectCustomers TO SelectCustomersLogin;	
CREATE CERTIFICATE SelectCustomersCertificate WITH SUBJECT 'Procedure Signing';	
CREATE USER SelectCustomersUser FROM CERTIFICATE SelectCustomersCertificate;	

Correct Answer:

Statements

CREATE LOGIN SelectCustomersLogin
  FROM CERTIFICATE SelectCustomer-
sCertificate;

GRANT EXEC ON SelectCustomers
  TO SelectCustomersLogin;

Answer Area

CREATE CERTIFICATE SelectCustomer-
sCertificate
  WITH SUBJECT 'Procedure Signing';

CREATE USER SelectCustomersUser
  FROM CERTIFICATE SelectCustomer-
sCertificate;

GRANT EXEC ON SelectCustomers
  TO SelectCustomerUser;

ADD SIGNATURE TO SelectCustomers
  BY CERTIFICATE SelectCustomers;

There are four steps involved in signing a module: References:https://msdn.microsoft.com/en-us/library/bb669102(v=vs.110).aspx

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QUESTION 2

You plan to write a query for a new business report that will contain several nested queries.

You need to ensure that a nested query can call a table-valued function for each row in the main query.

Which query operator should you use in the nested query?

A. CROSS APPLY

B. INNER JOIN

C. OUTER JOIN

D. PIVOT

Correct Answer: A

The APPLY operator allows you to invoke a table-valued function for each row returned by an outer table expression of a query. The table-valued function acts as the right input and the outer table expression acts as the left input. The right input is evaluated for each row from the left input and the rows produced are combined for the final output. The list of columns produced by the APPLY operator is the set of columns in the left input followed by the list of columns returned by the right input.

There are two forms of APPLY: CROSS APPLY and OUTER APPLY. CROSSAPPLY returns only rows from the outer table that produce a result set from the table-valued function. OUTER APPLY returns both rows that produce a result set, and rows that do not, with NULL values in the columns produced by the table-valued function.

References: https://technet.microsoft.com/en-us/library/ms175156(v=sql.105).aspx

QUESTION 3

You are designing a table for a SQL Server database. The table uses horizontal partitioning.

You have the following requirements:

Each record in the table requires a unique key.

You must minimize table fragmentation as the table grows.

You need to choose the appropriate data type for the key value.

What should you do?

A. Use the NEWID function to create a unique identifier.

B. Use the NEWSEQUENTIALID function to create a unique identifier.

C. Generate a random value that uses the bigint datatype.

D. Generate a random value that uses the char(16) data type.

Correct Answer: B

Horizontal partitioning divides a table into multiple tables. Each table then contains the same number of columns, but fewer rows. For example, a table that contains 1 billion rows could be partitioned horizontally into 12 tables, with each smaller table representing one month of data for a specific year. Any queries requiring data for a specific month only reference the appropriate table.

NEWSEQUENTIALID creates a GUID that is greater than any GUID previously generated by this function on a specified computer since Windows was started. After restarting Windows, the GUID can start again from a lower range, but is still globally unique. When a GUID column is used as a row identifier, using NEWSEQUENTIALID can be faster than using the NEWID function. This is because the NEWID function causes random activity and uses fewer cached data pages. Using NEWSEQUENTIALID also helps to completely fill the data and index pages.

References:https://msdn.microsoft.com/en-us/library/ms189786.aspx

QUESTION 4

Your database contains a table named Purchases. The table includes a DATETIME column named PurchaseTime that stores the date and time each purchase is made. There is a non-clustered index on the PurchaseTime column. The business team wants a report that displays the total number of purchases made on the current day. You need to write a query that will return the correct results in the most efficient manner. Which Transact-SQL query should you use?

A. SELECT COUNT(*)FROM Purchases WHERE PurchaseTime = CONVERT(DATE, GETDATE())

B. SELECT COUNT(*)FROM Purchases WHERE PurchaseTime = GETDATE()

C. SELECT COUNT(*)FROM Purchases WHERE CONVERT(VARCHAR, PurchaseTime, 112) = CONVERT(VARCHAR, GETDATE(), 112)

D. SELECT COUNT(*)FROM Purchases WHERE PurchaseTime >= CONVERT(DATE, GETDATE()) AND PurchaseTime

Correct Answer: D

http://technet.microsoft.com/en-us/libr ary/ms181034.aspx

QUESTION 5

Which of the following is not a violation of the relational model?

A. Using ordinal positions for columns

B. Returning duplicate rows

C. Not defining a key in a table

D. Ensuring that all attributes in the result of a query have names

Correct Answer: D

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