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PRO: Designing Database Solutions and Data Access Using Microsoft SQL Server 2008

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QUESTION 1

You are a database developer. You plan to design a database solution by using SQL Server 2008.

A database contains a stored procedure that is created by using the following DDL code segment.

```
CREATE PROC SP1
AS
  BEGIN TRY
    BEGIN TRANSACTION
    INSERT INTO Products ...
    UPDATE Sales ...
    COMMIT TRANSACTION
  END TRY
  BEGIN CATCH
    ROLLBACK TRANSACTION
  END CATCH;
RETURN
```

You discover that the UPDATE statement occasionally throws an exception that causes the entire transaction to roll back. You need to ensure that when the UPDATE statement causes an exception, SP1 performs the following tasks:

What should you do?

A. Add a TRY/CATCH block after the INSERT statement. Place the UPDATE statement inside the new TRY block.?Add a ROLLBACK TRANSACTION statement inside the new CATCH block.

B. Add a TRY/CATCH block after the INSERT statement. Place the UPDATE statement inside the new TRY block.?Add error-handling code inside the new CATCH block.

C. Add an XACT_ABORT ON statement to the first line of the procedure.

D. Add a SAVE TRANSACTION TR1 statement after the INSERT statement. Add a TRY/CATCH block after the SAVE TRANSACTION TR1 statement. Place the UPDATE statement inside the new TRYblock. Add a ROLLBACK TRANSACTION TR1 statement inside the new CATCH block.

Correct Answer: D

QUESTION 2

You are a database developer. You plan to design a database solution by using SQL Server 2008.

A database contains a table named Customer. The structure of the Customer table is as shown in the following table.

Column Name	Data Type	Description
customer_id	int	Clustered primary key
customer_name	nvarchar(80)	Full name
address	nvarchar(1,000)	Address details
country_id	int	ID of home country

The solution uses the following stored procedure to return customer details.

```
CREATE PROC GetCustomersByCountry
    @CountryID int
AS
SELECT customer_id, customer_name
FROM Customer
WHERE country_id = @CountryID;
```

Users report that the stored procedure takes a long time to execute. You need to optimize the performance of the stored procedure.

What should you do?

A. Recreate the primary key as a nonclustered unique index and build a clustered index on the country_id column.

B. Build a nonclustered index on the country_id column and use the INCLUDE clause to include the customer_name column.

C. Build a nonclustered index on the country_id, customer_name, and customer_id columns.

D. Build a nonclustered index only on the country_id column.

Correct Answer: B

QUESTION 3

You are a database developer. You create a database that uses SQL Server 2008 in an enterprise environment.

You plan to import data from an external source into a table. You need to ensure that the following tasks are accomplished:

What should you do?

A. Use CHECK constraints.

B. Use an AFTER trigger.

C. Use an INSTEAD OF trigger.

D. Disable the foreign keys during the import process.

Correct Answer: C

QUESTION 4

You need to design a database solution that meets the following requirements: Which SQL Server component should you use?

A. SQL Server Agent

B. SQL Mail

C. Notification Services

D. Service Broker

Correct Answer: D

QUESTION 5

You are a database developer. You plan to design a database solution by using SQL Server 2008.

The database will contain a table that has a parent-child relationship to itself. Each child might also be a parent. This might exist up to 10 levels deep.

You need to retrieve all levels by using a single Transact-SQL query.

What should you do?

A. Write a query to return the first level, and then add a correlated subquery to get the remaining levels.

B. Write a query to return the first level, and then use the CROSS JOIN operator to join the table back to itself to get the remaining levels.

C. Create a common-table expression to return the first level and then union back to itself to get the remaining levels.

D. Create a view that returns the first level, and then use the FULL OUTER JOIN operator to join the table back to the view to get the remaining levels.

Correct Answer: C

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