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QUESTION 1

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You create a table named Products by running the following Transact-SQL statement:

```
CREATE TABLE Products (  
    ProductID int IDENTITY(1,1) NOT NULL PRIMARY KEY,  
    ProductName nvarchar(100) NULL,  
    UnitPrice decimal(18, 2) NOT NULL,  
    UnitsInStock int NOT NULL,  
    UnitsOnOrder int NULL  
)
```

You have the following stored procedure:

```
CREATE PROCEDURE InsertProduct  
    @ProductName nvarchar(100),  
    @UnitPrice decimal(18,2),  
    @UnitsInStock int,  
    @UnitsOnOrder int  
AS  
BEGIN  
    INSERT INTO Products(ProductName, ProductPrice, ProductsInStock, ProductsOnOrder)  
    VALUES (@ProductName, @UnitPrice, @UnitsInStock, @UnitsOnOrder)  
END
```

You need to modify the stored procedure to meet the following new requirements:

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- Insert product records as a single unit of work.
- Return error number 51000 when a product fails to insert into the database.
- If a product record insert operation fails, the product information must not be permanently written to the database.

Solution: You run the following Transact-SQL statement:

```
ALTER PROCEDURE InsertProduct
@ProductName nvarchar(100),
@UnitPrice decimal(18,2),
@UnitsInStock int,
@UnitsOnOrder int
AS
BEGIN
    SET XACT_ABORT ON
    BEGIN TRY
        BEGIN TRANSACTION
            INSERT INTO Products (ProductName, ProductPrice, ProductsInStock, ProductsOnOrder)
            VALUES (@ProductName, @UnitPrice, @UnitsInStock, @UnitsOnOrder)
        COMMIT TRANSACTION
    END TRY
    BEGIN CATCH
        IF XACT_STATE() <> 0 ROLLBACK TRANSACTION
        THROW 51000, 'The product could not be created.', 1
    END CATCH
END
```

Does the solution meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

With X_ABORT ON the INSERT INTO statement and the transaction will be rolled back when an error is raised, it would then not be possible to ROLLBACK it again in the IF XACT_STATE() <> 0 ROLLACK TRANSACTION statmen.

Note: A transaction is correctly defined for the INSERT INTO ..VALUES statement, and if there is an error in the transaction it will be caught ant he transaction will be rolled back, finally an error 51000 will be raised.

Note: When SET XACT_ABORT is ON, if a Transact-SQL statement raises a run-time error, the entire transaction is terminated and rolled back. XACT_STATE is a scalar function that reports the user transaction state of a current running request. XACT_STATE indicates whether the request has an active user transaction, and whether the transaction is capable of being committed.

The states of XACT_STATE are:

0 There is no active user transaction for the current request. 1 The current request has an active user transaction. The request can perform any actions, including writing data and committing the transaction. 2 The current request has an active user transaction, but an error has occurred that has caused the transaction to be classified as an uncommittable transaction.

References:

<https://msdn.microsoft.com/en-us/library/ms188792.aspx>

<https://msdn.microsoft.com/en-us/library/ms189797.aspx>

QUESTION 2

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some

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question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You create a table named Products by running the following Transact-SQL statement:

```
CREATE TABLE Products (  
    ProductID int IDENTITY(1,1) NOT NULL PRIMARY KEY,  
    ProductName nvarchar(100) NULL,  
    UnitPrice decimal(18, 2) NOT NULL,  
    UnitsInStock int NOT NULL,  
    UnitsOnOrder int NULL  
)
```

You have the following stored procedure:

```
CREATE PROCEDURE InsertProduct  
    @ProductName nvarchar(100),  
    @UnitPrice decimal(18,2),  
    @UnitsInStock int,  
    @UnitsOnOrder int  
AS  
BEGIN  
    INSERT INTO Products(ProductName, ProductPrice, ProductsInStock, ProductsOnOrder)  
    VALUES (@ProductName, @UnitPrice, @UnitsInStock, @UnitsOnOrder)  
END
```

You need to modify the stored procedure to meet the following new requirements:

- Insert product records as a single unit of work.
- Return error number 51000 when a product fails to insert into the database.
- If a product record insert operation fails, the product information must not be permanently written to the database.

Solution: You run the following Transact-SQL statement:

```
ALTER PROCEDURE InsertProduct  
    @ProductName nvarchar(100),  
    @UnitPrice decimal(18,2),  
    @UnitsInStock int,  
    @UnitsOnOrder int  
AS  
BEGIN  
    BEGIN TRY  
        BEGIN TRANSACTION  
            INSERT INTO Products(ProductName, ProductPrice, ProductsInStock, ProductsOnOrder)  
            VALUES (@ProductName, @UnitPrice, @UnitsInStock, @UnitsOnOrder)  
        COMMIT TRANSACTION  
    END TRY  
    BEGIN CATCH  
        IF @@TRANSCOUNT > 0 ROLLBACK TRANSACTION  
        IF @@ERROR = 51000  
            THROW  
    END CATCH  
END
```

Does the solution meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

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A transaction is correctly defined for the INSERT INTO ..VALUES statement, and if there is an error in the transaction it will be caught and the transaction will be rolled back. However, error number 51000 will not be returned, as it is only used in an IF @ERROR = 51000 statement. Note: @@TRANSCOUNT returns the number of BEGIN TRANSACTION statements that have occurred on the current connection.

References: <https://msdn.microsoft.com/en-us/library/ms187967.aspx>

QUESTION 3

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You create a table named Products by running the following Transact-SQL statement:

```
CREATE TABLE Products (  
    ProductID int IDENTITY(1,1) NOT NULL PRIMARY KEY,  
    ProductName nvarchar(100) NULL,  
    UnitPrice decimal(18, 2) NOT NULL,  
    UnitsInStock int NOT NULL,  
    UnitsOnOrder int NULL  
)
```

You have the following stored procedure:

```
CREATE PROCEDURE InsertProduct  
    @ProductName nvarchar(100),  
    @UnitPrice decimal(18,2),  
    @UnitsInStock int,  
    @UnitsOnOrder int  
AS  
BEGIN  
    INSERT INTO Products(ProductName, ProductPrice, ProductsInStock, ProductsOnOrder)  
    VALUES (@ProductName, @UnitPrice, @UnitsInStock, @UnitsOnOrder)  
END
```

You need to modify the stored procedure to meet the following new requirements:

- Insert product records as a single unit of work.
- Return error number 51000 when a product fails to insert into the database.
- If a product record insert operation fails, the product information must not be permanently written to the database.

Solution: You run the following Transact-SQL statement:

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```
ALTER PROCEDURE InsertProduct
@ProductName nvarchar(100),
@UnitPrice decimal(18,2),
@UnitsInStock int,
@UnitsOnOrder int
AS
BEGIN
    BEGIN TRY
        INSERT INTO Products(ProductName, ProductPrice, ProductsInStock, ProductsOnOrder)
        VALUES (@ProductName, @UnitPrice, @UnitsInStock, @UnitsOnOrder)
    END TRY
    BEGIN CATCH
        THROW 51000, 'The product could not be created.', 1
    END CATCH
END
```

Does the solution meet the goal?

- A. Yes
- B. No

Answer: A

Explanation:

If the INSERT INTO statement raises an error, the statement will be caught and an error 51000 will be thrown. In this case no records will have been inserted.

Note:

You can implement error handling for the INSERT statement by specifying the statement in a TRY...CATCH construct.

If an INSERT statement violates a constraint or rule, or if it has a value incompatible with the data type of the column, the statement fails and an error message is returned.

References: <https://msdn.microsoft.com/en-us/library/ms174335.aspx>

QUESTION 4

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You create a table named Customer by running the following Transact-SQL statement:

```
CREATE TABLE Customer (
    CustomerID int IDENTITY(1,1) PRIMARY KEY,
    FirstName varchar(50) NULL,
    LastName varchar(50) NOT NULL,
    DateOfBirth date NOT NULL,
    CreditLimit money CHECK (CreditLimit < 10000),
    TownID int NULL REFERENCES dbo.Town(TownID),
    CreatedDate datetime DEFAULT(Getdate())
)
```

You must insert the following data into the Customer table:

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Record	First name	Last name	Date of Birth	Credit limit	Town ID	Created date
Record 1	Yvonne	McKay	1984-05-25	9,000	no town details	current date and time
Record 2	Jossef	Goldberg	1995-06-03	5,500	no town details	current date and time

You need to ensure that both records are inserted or neither record is inserted.

Solution: You run the following Transact-SQL statement:

```
INSERT INTO Customer (FirstName, LastName, DateOfBirth, CreditLimit, CreatedDate)
VALUES ('Yvonne', 'McKay', '1984-05-25', 9000, GETDATE())
INSERT INTO Customer (FirstName, LastName, DateOfBirth, CreditLimit, CreatedDate)
VALUES ('Jossef', 'Goldberg', '1995-06-03', 5500, GETDATE())
GO
```

Does the solution meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

As there are two separate INSERT INTO statements we cannot ensure that both or neither records is inserted.

QUESTION 5

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You create a table named Customer by running the following Transact-SQL statement:

```
CREATE TABLE Customer (
    CustomerID int IDENTITY(1,1) PRIMARY KEY,
    FirstName varchar(50) NULL,
    LastName varchar(50) NOT NULL,
    DateOfBirth date NOT NULL,
    CreditLimit money CHECK (CreditLimit < 10000),
    TownID int NULL REFERENCES dbo.Town(TownID),
    CreatedDate datetime DEFAULT(Getdate())
)
```

You must insert the following data into the Customer table:

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Record	First name	Last name	Date of Birth	Credit limit	Town ID	Created date
Record 1	Yvonne	McKay	1984-05-25	9,000	no town details	current date and time
Record 2	Jossef	Goldberg	1995-06-03	5,500	no town details	current date and time

You need to ensure that both records are inserted or neither record is inserted.

Solution: You run the following Transact-SQL statement:

```
INSERT INTO Customer (FirstName, LastName, DateOfBirth, CreditLimit, TownID, CreatedDate)
VALUES ('Yvonne', 'McKay', '1984-05-25', 9000, NULL, GETDATE())
INSERT INTO Customer (FirstName, LastName, DateOfBirth, CreditLimit, TownID, CreatedDate)
VALUES ('Jossef', 'Goldberg', '1995-06-03', 5500, NULL, GETDATE())
GO
```

Does the solution meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

As there are two separate INSERT INTO statements we cannot ensure that both or neither records is inserted.

QUESTION 6

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You create a table named Customer by running the following Transact-SQL statement:

```
CREATE TABLE Customer (
    CustomerID int IDENTITY(1,1) PRIMARY KEY,
    FirstName varchar(50) NULL,
    LastName varchar(50) NOT NULL,
    DateOfBirth date NOT NULL,
    CreditLimit money CHECK (CreditLimit < 10000),
    TownID int NULL REFERENCES dbo.Town(TownID),
    CreatedDate datetime DEFAULT(Getdate())
)
```

You must insert the following data into the Customer table:

Record	First name	Last name	Date of Birth	Credit limit	Town ID	Created date
Record 1	Yvonne	McKay	1984-05-25	9,000	no town details	current date and time
Record 2	Jossef	Goldberg	1995-06-03	5,500	no town details	current date and time

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You need to ensure that both records are inserted or neither record is inserted.

Solution: You run the following Transact-SQL statement:

```
INSERT INTO dbo.Customer (FirstName, LastName, DateOfBirth, CreditLimit)
VALUES ('Yvonne', 'McKay', '1984-05-25', 9000), ('Josef', 'Goldberg', '1995-06-03', 5500)
```

Does the solution meet the goal?

- A. Yes
- B. No

Answer: A

Explanation:

With the INSERT INTO..VALUES statement we can insert both values with just one statement.

This ensures that both records or neither is inserted.

References: <https://msdn.microsoft.com/en-us/library/ms174335.aspx>

QUESTION 7

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have a database that tracks orders and deliveries for customers in North America. The database contains the following tables:

Sales.Customers

Column	Data type	Notes
CustomerID	int	primary key
CustomerCategoryID	int	foreign key to the Sales.CustomerCategories table
PostalCityID	int	foreign key to the Application.Cities table
DeliveryCityID	int	foreign key to the Application.Cities table
AccountOpenedDate	datetime	does not allow new values
StandardDiscountPercentage	int	does not allow new values
CreditLimit	decimal(18,2)	null values are permitted
IsOnCreditHold	bit	does not allow new values
DeliveryLocation	geography	does not allow new values
PhoneNumber	nvarchar(20)	does not allow new values data is formatted as follows: 425-555-0187

Application.Cities

Column	Data type	Notes
CityID	int	primary key
LatestRecordedPopulation	bigint	null values are permitted

Sales.CustomerCategories

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Column	Data type	Notes
CustomerCategoryID	int	primary key
CustomerCategoryName	nvarchar(50)	does not allow null values

The company's development team is designing a customer directory application. The application must list customers by the area code of their phone number. The area code is defined as the first three characters of the phone number.

The main page of the application will be based on an indexed view that contains the area and phone number for all customers.

You need to return the area code from the PhoneNumber field.

Solution: You run the following Transact-SQL statement:

```
CREATE FUNCTION AreaCode (  
    @phoneNumber nvarchar(20)  
)  
RETURNS  
TABLE  
WITH SCHEMABINDING  
AS  
RETURN (  
    SELECT TOP 1 @phoneNumber as PhoneNumber, VALUE as AreaCode  
    FROM STRING_SPLIT(@phoneNumber, '-')  
)
```

Does the solution meet the goal?

- A. Yes
- B. No

Answer: A

Explanation:

As the result of the function will be used in an indexed view we should use schemabinding.

References: <https://sqlstudies.com/2014/08/06/schemabinding-what-why/>

QUESTION 8

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

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You have a database that tracks orders and deliveries for customers in North America. The database contains the following tables:

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Column	Data type	Notes
CustomerID	int	primary key
CustomerCategoryID	int	foreign key to the Sales.CustomerCategories table
PostalCityID	int	foreign key to the Application.Cities table
DeliveryCityID	int	foreign key to the Application.Cities table
AccountOpenedDate	datetime	does not allow new values
StandardDiscountPercentage	int	does not allow new values
CreditLimit	decimal(18,2)	null values are permitted
IsOnCreditHold	bit	does not allow new values
DeliveryLocation	geography	does not allow new values
PhoneNumber	nvarchar(20)	does not allow new values data is formatted as follows: 425-555-0187

Application. Cities

Column	Data type	Notes
CityID	int	primary key
LatestRecordedPopulation	bigint	null values are permitted

Sales. CustomerCategories

Column	Data type	Notes
CustomerCategoryID	int	primary key
CustomerCategoryName	nvarchar(50)	does not allow null values

The company's development team is designing a customer directory application. The application must list customers by the area code of their phone number.

The area code is defined as the first three characters of the phone number.

The main page of the application will be based on an indexed view that contains the area and phone number for all customers.

You need to return the area code from the PhoneNumber field.

Solution: You run the following Transact-SQL statement:

```
CREATE FUNCTION AreaCode (
    @phoneNumber nvarchar(20)
)
RETURNS nvarchar(10)
AS
BEGIN
    DECLARE @areaCode nvarchar(max)
    SELECT TOP 1 @areaCode = VALUE FROM STRING_SPLIT(@phoneNumber, '-')
    RETURN @areaCode
END
```

Does the solution meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

As the result of the function will be used in an indexed view we should use schemabinding.

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References: <https://sqlstudies.com/2014/08/06/schemabinding-what-why/>

QUESTION 9

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have a database that tracks orders and deliveries for customers in North America. The database contains the following tables:

Sales.Customer

Column	Data type	Notes
CustomerID	int	primary key
CustomerCategoryID	int	foreign key to the Sales.CustomerCategories table
PostalCityID	int	foreign key to the Application.Cities table
DeliveryCityID	int	foreign key to the Application.Cities table
AccountOpenedDate	datetime	does not allow new values
StandardDiscountPercentage	int	does not allow new values
CreditLimit	decimal(18,2)	null values are permitted
IsOnCreditHold	bit	does not allow new values
DeliveryLocation	geography	does not allow new values
PhoneNumber	nvarchar(20)	does not allow new values data is formatted as follows: 425-555-0187

Application.Cities

Column	Data type	Notes
CityID	int	primary key
LatestRecordedPopulation	bigint	null values are permitted

Sales.CustomerCategories

Column	Data type	Notes
CustomerCategoryID	int	primary key
CustomerCategoryName	nvarchar(50)	does not allow null values

The company's development team is designing a customer directory application.

The application must list customers by the area code of their phone number. The area code is defined as the first three characters of the phone number.

The main page of the application will be based on an indexed view that contains the area and phone number for all customers.

You need to return the area code from the PhoneNumber field.

Solution: You run the following Transact-SQL statement:

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```
CREATE FUNCTION AreaCode (
    @phoneNumber nvarchar(20)
)
RETURNS nvarchar(10)
WITH SCHEMABINDING
AS
BEGIN
    DECLARE @areaCode nvarchar(max)
    SELECT @areaCode = value FROM STRING_SPLIT(@phoneNumber, '-')
    RETURN @areaCode
END
```

Does the solution meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

The variable max, in the line DECLARE @areaCode nvarchar(max), is not defined.

QUESTION 10

Note: This question is part of a series of questions that use the same scenario. For your convenience, the scenario is repeated in each question. Each question presents a different goal and answer choices, but the text of the scenario is exactly the same in each question in this series.

You query a database that includes two tables: Project and Task.

The Project table includes the following columns:

Column name	Data type	Notes
ProjectId	int	This is a unique identifier for a project.
ProjectName	varchar(100)	
StartTime	datetime2(7)	
EndTime	datetime2(7)	A null value indicates the project is not finished yet.
UserId	int	Identifies the owner of the project.
TaskId	int	This is a unique identifier for a task.
TaskName	varchar(100)	A nonclustered index exists for this column.
ParentTaskId	int	Each task may or may not have a parent task.
ProjectId	int	A null value indicates the task is not assigned to a specific project.
StartTime	datetime2(7)	
EndTime	datetime2(7)	A null value indicates the task is not completed yet.
UserId	int	Identifies the owner of the task.

You plan to run the following query to update tasks that are not yet started:

```
UPDATE Task SET StartTime = GETDATE() WHERE StartTime IS NULL
```

You need to return the total count of tasks that are impacted by this UPDATE operation, but are not associated with a project.

What set of Transact-SQL statements should you run?

- A. Option A

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- B. Option B
- C. Option C
- D. Option D

Answer: B

Explanation:

The WHERE clause of the third line should be WHERE ProjectID IS NULL, as we want to count the tasks that are not associated with a project.

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