



70-761^{Q&As}

Querying Data with Transact-SQL

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QUESTION 1

DRAG DROP

You have two tables named UserLogin and Employee respectively.

You need to create a Transact-SQL script that meets the following requirements:

The script must update the value of the IsDeleted column for the UserLogin table to 1 if the value of the Id column for the UserLogin table is equal to 1.

The script must update the value of the IsDeleted column of the Employee table to 1 if the value of the Id column is equal to 1 for the Employee table when an update to the UserLogin table throws an error.

The error message "No tables updated!" must be produced when an update to the Employee table throws an error.

Which five Transact-SQL segments should you use to develop the solution? To answer, move the appropriate Transact-SQL segments from the list of Transact-SQL segments to the answer area and arrange them in the correct order.

Select and Place:

Code segments	Answer Area
<pre>BEGIN CATCH RAISEERROR ('No tables updated!', 16, 1) END CATCH</pre>	
<pre>UPDATE dbo.Employee SET IsDeleted = 1 WHERE Id = 1</pre>	
<pre>BEGIN TRY UPDATE dbo.UserLogin SET IsDeleted = 1 WHERE Id = 1</pre>	
<pre>BEGIN TRY UPDATE dbo.UserLogin SET IsDeleted = 1 WHERE Id = 1 UPDATE dbo.Employee SET IsDeleted = 1 WHERE Id = 1</pre>	
<pre>BEGIN CATCH</pre>	
<pre>BEGIN TRY UPDATE dbo.Employee SET IsDeleted = 1 WHERE Id = 1</pre>	
<pre>END CATCH</pre>	

Correct Answer:



Code segments

```

BEGIN CATCH
    RAISERROR ('No tables updated!',
16, 1)
END CATCH

UPDATE dbo.Employee
SET IsDeleted = 1
WHERE Id = 1

BEGIN TRY
    UPDATE dbo.UserLogin
    SET IsDeleted = 1
    WHERE Id = 1

BEGIN TRY
    UPDATE dbo.UserLogin
    SET IsDeleted = 1
    WHERE Id = 1
    UPDATE dbo.Employee
    SET IsDeleted = 1
    WHERE Id = 1

BEGIN CATCH

BEGIN TRY
    UPDATE dbo.Employee
    SET IsDeleted = 1
    WHERE Id = 1

END CATCH

```

Answer Area

```

BEGIN TRY
    UPDATE dbo.UserLogin
    SET IsDeleted = 1
    WHERE Id = 1

BEGIN CATCH
    ,
END CATCH

BEGIN TRY
    UPDATE dbo.Employee
    SET IsDeleted = 1
    WHERE Id = 1

BEGIN CATCH
    RAISERROR ('No tables updated!',
16, 1)
END CATCH

```



A TRY block must be immediately followed by an associated CATCH block. Including any other statements between the END TRY and BEGIN CATCH statements generates a syntax error. References: <https://msdn.microsoft.com/en-us/library/ms175976.aspx>

QUESTION 2

DRAG DROP

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. Start of repeated scenario

You are developing a database to track customer orders. The database contains the following tables: Sales.Customers, Sales.Orders, and Sales.OrderLines. The following table describes the columns in Sales.Customers.



Column name	Data type	Constraints
CustomerID	int	primary key
CustomerName	nvarchar(100)	does not allow null values
PhoneNumber	nvarchar(20)	does not allow null values
AccountOpenedDate	date	does not allow null values
StandardDiscountPercentage	decimal(18,3)	does not allow null values
CreditLimit	decimal(18,2)	null values are permitted
IsOnCreditHold	bit	does not allow null values
DeliveryLocation	geography	does not allow null values
PhoneNumber	nvarchar(20)	does not allow null values

The following table describes the columns in Sales.Orders.

Column name	Data type	Constraints
OrderID	int	primary key
CustomerID	int	foreign key to the Sales.Customers table
OrderDate	date	does not allow null values

The following table describes the columns in Sales.Orders.

The following table describes the columns in Sales.OrderLines.

Column name	Data type	Constraints
OrderLineID	int	primary key
OrderID	int	foreign key to the Sales.Orders table
Quantity	int	does not allow null values
UnitPrice	decimal(18,2)	null values are permitted
TaxRate	decimal(18,3)	does not allow null values

End of repeated scenario

You need to create a common table expression (CTE) that returns the total number of orders per year for each customer.

Which five Transact-SQL segments should you use to develop the solution? To answer, move the appropriate Transact-SQL segments from the list of Transact-SQL segments to the answer area and arrange them in the correct order.

Select and Place:



Transact-SQL segments

```

SELECT CustomerID, COUNT(OrderID) AS
TotalOrders, OrderYear
FROM Orders_CTE

WITH Orders_CTE (CustomerID, OrderID,
OrderYear)

GROUP BY OrderYear, CustomerID

AS
(
SELECT c.CustomerID, o.OrderID,
YEAR(o.OrderDate) AS OrderYear
FROM Sales.Customers c, Sales.Orders o
WHERE o.CustomerID = c.CustomerID
)

ORDER BY CustomerID, OrderYear

MERGE Sales.Customers

```

Answer Area



Correct Answer:

Transact-SQL segments

```

MERGE Sales.Customers

```

Answer Area

```

WITH Orders_CTE (CustomerID, OrderID,
OrderYear)

AS
(
SELECT c.CustomerID, o.OrderID,
YEAR(o.OrderDate) AS OrderYear
FROM Sales.Customers c, Sales.Orders o
WHERE o.CustomerID = c.CustomerID
)

SELECT CustomerID, COUNT(OrderID) AS
TotalOrders, OrderYear
FROM Orders_CTE

GROUP BY OrderYear, CustomerID

ORDER BY CustomerID, OrderYear

```



References: <https://docs.microsoft.com/en-us/sql/t-sql/queries/with-common-table-expression-transact-sql?view=sql-server-2017>

**QUESTION 3**

You have a database named MyDb. You run the following Transact-SQL statements:

```
CREATE TABLE tblRoles (  
    RoleId int NOT NULL IDENTITY(1,1) PRIMARY KEY CLUSTERED,  
    RoleName varchar(20) NOT NULL  
)  
CREATE TABLE tblUsers (  
    UserId int NOT NULL IDENTITY(10000,1) PRIMARY KEY CLUSTERED,  
    UserName varchar(20) UNIQUE NOT NULL,  
    RoleId int NULL FOREIGN KEY REFERENCES tblRoles(RoleId),  
    IsActive bit NOT NULL DEFAULT(1)  
)
```

A value of 1 in the IsActive column indicates that a user is active.

You need to create a count for active users in each role. If a role has no active users. You must display a zero as the active users count.

Which Transact-SQL statement should you run?

- A.

```
SELECT R.RoleName, COUNT(U.UserId) AS ActiveUserCount FROM tblRoles R  
LEFT JOIN (SELECT UserId, RoleId FROM tblUsers WHERE IsActive = 1) U ON U.RoleId = R.RoleId  
GROUP BY R.RoleId, R.RoleName
```
- B.

```
SELECT R.RoleName, U.ActiveUserCount FROM tblRoles R  
INNER JOIN (SELECT RoleId, COUNT(*) AS ActiveUserCount FROM tblUsers WHERE IsActive = 1  
GROUP BY RoleId) U ON R.RoleId = U.RoleId
```
- C.

```
SELECT R.RoleName, COUNT(*) AS ActiveUserCount FROM tblRoles R  
LEFT JOIN (SELECT UserId, RoleId FROM tblUsers WHERE IsActive = 1) U ON U.RoleId = R.RoleId  
GROUP BY R.RoleId, R.RoleName
```
- D.

```
SELECT R.RoleName, U.ActiveUserCount FROM tblRoles R CROSS JOIN  
(SELECT COUNT(*) AS ActiveUserCount FROM tblUsers WHERE IsActive = 1) U
```

A. B. C. D.

Correct Answer: C

QUESTION 4

HOTSPOT



You run the following Transact-SQL statement:

```
CREATE TABLE Sales.Customers (  
    custid int IDENTITY(1,1) NOT NULL,  
    companyname nvarchar(50) NULL,  
    contacttitle nvarchar(30) NOT NULL,  
    address nvarchar(60) NOT NULL,  
    postalcode nvarchar(10) NOT NULL,  
    region nvarchar(15) NULL,  
    phone nvarchar(24) NOT NULL,  
    fax nvarchar(24) NULL,  
) ON PPRIMARY
```

You need to ensure that you can insert data into the table.

What are the characteristics of the data? To answer, select the appropriate options in the answer area.

Hot Area:



Answer Area

Column input constraint

Values cannot be entered into this column

A value must be inserted into this column

Data entry into this column is optional

Column name

	▼
custid	
fax	
postalcode	
region	

	▼
custid	
fax	
postalcode	
region	

	▼
custid	
fax	
postalcode	
region	

Correct Answer:



Answer Area

Column input constraint

Values cannot be entered into this column

A value must be inserted into this column

Data entry into this column is optional

Column name

	▼
custid	
fax	
postalcode	
region	

	▼
custid	
fax	
postalcode	
region	

	▼
custid	
fax	
postalcode	
region	

Box 1: custid

IDENTITY indicates that the new column is an identity column. When a new row is added to the table, the Database Engine provides a unique, incremental value for the column. Identity columns are typically used with PRIMARY KEY constraints to serve as the unique row identifier for the table.

Box2: postalcode

postalcode is declared as NOT NULL, which means that a value must be inserted.

Box 3: region

Fax is also a correct answer. Both these two columns are declared as NULL, which means that data entry is optional.

References: <https://msdn.microsoft.com/en-us/library/ms174979.aspx>

**QUESTION 5**

SIMULATION

You create a table named Sales.Orders by running the following Transact-SQL statement:

```
CREATE TABLE Sales.Orders (  
    OrderID int NOT NULL,  
    OrderDate date NULL,  
    ShippedDate date NULL,  
    Status varchar(10),  
    CONSTRAINT PK_ORDERS PRIMARY KEY CLUSTERED OrderID  
)
```

You need to write a query that removes orders from the table that have a Status of Canceled.

Construct the query using the following guidelines: use one-part column names and two-part table names use single quotes around literal values do not use functions do not surround object names with square brackets do not use variables do not use aliases for column names and table names Part of the correct Transact-SQL has been provided in the answer area below. Enter the code in the answer area that resolves the problem and meets the stated goals or requirements. You can add code within the code that has been provided as well as below it.



Keywords

ADD	EXIT	PROC
ALL	EXTERNAL	PROCEDURE
ALTER	FETCH	PUBLIC
AND	FILE	RAISERROR
ANY	FILLFACTOR	READ
AS	FORFOREIGN	READTEXT
ASC	FREETEXT	RECONFIGURE
AUTHORIZATION	FREETEXTTABLE	REFERENCES
BACKUP	FROM	REPLICATION
BEGIN	FULL	RESTORE
BETWEEN	FUNCTION	RESTRICT
BREAK	GOTO	RETURN
BROWSE	GRANT	REVERT
BULK	GROUP	REVOKE
BY	HAVING	RIGHT
CASCADE	HOLDLOCK	ROLLBACK
CASE	IDENTITY	ROWCOUNT
CHECK	IDENTITY_INSERT	ROWGUIDCOL
CHECKPOINT	IDENTITYCOL	RULE
CLOSE	IF	SAVE
CLUSTERED	IN	SCHEMA
COALESCE	INDEX	SECURITYAUDIT
COLLATE	INNER	SELECT
COLUMN	INSERT	SEMANTICKEYPHRASETABLE
COMMIT	INTERSECT	SEMANTICSIMILARITYDETAILSTABLE
COMPUTE	INTO	SEMANTICSIMILARITYTABLE
CONCAT	IS	SESSION_USER
CONSTRAINT	JOIN	SET
CONTAINS	KEY	SETUSER
CONTAINSTABLE	KILL	SHUTDOWN
CONTINUE	LEFT	SOME
CONVERT	LIKE	STATISTICS
CREATE	LINENO	SYSTEM_USER
CROSS	LOAD	TABLE
CURRENT	MERGE	TABLESAMPLE
CURRENT_DATE	NATIONAL	TEXTSIZE
CURRENT_TIME	NOCHECK	THEN
CURRENT_TIMESTAMP	NONCLUSTERED	TO
CURRENT_USER	NOT	TOP
CURSOR	NULL	TRAN
DATABASE	NULLIF	TRANSACTION
DBCC	OF	TRIGGER
DEALLOCATE	OFF	TRUNCATE
DECLARE	OFFSETS	TRY_CONVERT
DEFAULT	ON	TSEQUAL
DELETE	OPEN	UNION
DENY	OPENDATASOURCE	UNIQUE
DESC	OPENQUERY	UNPIVOT
DISK	OPENROWSET	UPDATE
DISTINCT	OPENXML	UPDATETEXT
DISTRIBUTED	OPTION	USE
DOUBLE	OR	USER
DROP	ORDER	VALUES
DUMP	OUTER	VARYING
ELSE	OVER	VIEW
END	PERCENT	WAITFOR
ERRLVL	PIVOT	WHEN
ESCAPE	PLAN	WHERE
ESCEPT	PRECISION	WHILE
EXEC	PRIMARY	WITH
EXECUTE	PRINT	WITHIN GROUP
EXISTS		WRITETEXT



```
1 DELETE from sales.orders where status='calceled'
```

Use the Check Syntax button to verify your work. Any syntax or spelling errors will be reported by line and character position.

A. Check the answer in explanation.

Correct Answer: A

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