

- **Vendor: Microsoft**
- **Exam Code: 70-761**
- **Exam Name: Querying Data with Transact-SQL**
- **Question 11 – Question 20**

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QUESTION 11

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.

Hotspot Question

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 need to identify the owner of each task by using the following rules:

- Return each task's owner if the task has an owner.
- If a task has no owner, but is associated with a project that has an owner, return the project's owner.
- Return the value -1 for all other cases.

How should you complete the Transact-SQL statement? To answer, select the appropriate Transact-SQL segments in the answer area.

Answer Area

SELECT T.TaskId, T.TaskName,

ISNULL	T.UserId, P.UserId, -1
COALESCE	P.UserId, T.UserId, -1
CHOOSE	-1, P.UserId, T.UserId
	-1, T.UserId, P.UserId

FROM Task T

INNER JOIN	Project P ON T.ProjectId = P.ProjectId
LEFT JOIN	
RIGHT JOIN	

Answer:

Answer Area

SELECT T.TaskId, T.TaskName,

ISNULL	T.UserId, P.UserId, -1
COALESCE	P.UserId, T.UserId, -1
CHOOSE	-1, P.UserId, T.UserId
	-1, T.UserId, P.UserId

FROM Task T

INNER JOIN	Project P ON T.ProjectId = P.ProjectId
LEFT JOIN	
RIGHT JOIN	

Explanation:

Box 1: COALESCE

COALESCE evaluates the arguments in order and returns the current value of the first expression that initially does not evaluate to NULL.

Box 2: T.UserId, p.UserId, -1

- Return each task's owner if the task has an owner.

- If a task has no owner, but is associated with a project that has an owner, return the project's owner.

- Return the value -1 for all other cases.

Box 3: RIGHT JOIN

The RIGHT JOIN keyword returns all rows from the right table (table2), with the matching rows in the left table (table1). The result is NULL in the left side when there is no match. Here the right side could be NULL as the projectID of the task could be NULL.

References:

<https://msdn.microsoft.com/en-us/library/ms190349.aspx>

http://www.w3schools.com/Sql/sql_join_right.asp

QUESTION 12

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.

Drag and Drop Question

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

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<http://www.passleader.com/70-761.html>





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.

Task level is defined using the following rules:

Task category	Task level definition
Tasks that have no parent task	[Task Level] = 0
Tasks that have a parent task	[Task Level] = [Parent Task's Level] + 1

You need to determine the task level for each task in the hierarchy. 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.

Transact-SQL segments	Answer Area
<pre> } SELECT * FROM TaskWithLevel </pre>	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">   </div> <div style="text-align: center;">   </div> </div>
<pre> SELECT CAST(NULL AS int) AS ParentTaskId, T.TaskId, T.TaskName, 0 AS TaskLevel FROM Task T WHERE T.ParentTaskId IS NULL </pre>	
<pre> With TaskWithLevel (ParentTaskId, TaskId, TaskName, TaskLevel) As { </pre>	
<pre> UNION </pre>	
<pre> SELECT R.TaskId AS ParentTaskId, T.TaskId, T.TaskName, R.TaskLevel+1 AS TaskLevel FROM Task T INNER JOIN TaskWithLevel R ON T.ParentTaskId = R.TaskId </pre>	
<pre> SELECT T.TaskId AS ParentTaskId, CAST(null AS int) AS TaskId, T.TaskName, 0 AS TaskLevel FROM Task T WHERE T.ParentTaskId IS NULL </pre>	
<pre> UNION ALL </pre>	

Answer:

Transact-SQL segments	Answer Area
<pre> } SELECT * FROM TaskWithLevel </pre>	<pre> SELECT CAST(NULL AS int) AS ParentTaskId, T.TaskId, T.TaskName, 0 AS TaskLevel FROM Task T WHERE T.ParentTaskId IS NULL </pre>
<pre> With TaskWithLevel (ParentTaskId, TaskId, TaskName, TaskLevel) As { </pre>	<pre> UNION </pre>
<pre> SELECT R.TaskId AS ParentTaskId, T.TaskId, T.TaskName, R.TaskLevel+1 AS TaskLevel FROM Task T INNER JOIN TaskWithLevel R ON T.ParentTaskId = R.TaskId </pre>	<pre> SELECT R.TaskId AS ParentTaskId, T.TaskId, T.TaskName, R.TaskLevel+1 AS TaskLevel FROM Task T INNER JOIN TaskWithLevel R ON T.ParentTaskId = R.TaskId </pre>
<pre> SELECT T.TaskId AS ParentTaskId, CAST(null AS int) AS TaskId, T.TaskName, 0 AS TaskLevel FROM Task T WHERE T.ParentTaskId IS NULL </pre>	<pre> With TaskWithLevel (ParentTaskId, TaskId, TaskName, TaskLevel) As { </pre>
<pre> UNION ALL </pre>	<pre> } SELECT * FROM TaskWithLevel </pre>

Explanation:

Box 1: SELECT CAST (NULL AS INT) AS ParentTaskID, etc.

This statement selects all tasks with task level 0. The ParentTaskID could be null so we should use CAST (NULL AS INT) AS ParentTaskID.

Box 2: UNION

We should use UNION and not UNION ALL as we do not want duplicate rows. UNION specifies that multiple result sets are to be combined and returned as a single result set.

Incorrect: Not UNION ALL: ALL incorporates all rows into the results. This includes duplicates. If not specified, duplicate rows are removed.

Box 3, Box 4, Box 5:

These statements select all tasks with task level >0.

References:

<https://msdn.microsoft.com/en-us/library/ms180026.aspx>

QUESTION 13

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.

Drag and Drop Question

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.

When running an operation, you updated a column named EndTime for several records in the Project table, but updates to the corresponding task records in the Task table failed. You need to synchronize the value of the End Time column in the Task table with the value of the EndTime column in the project table. The solution must meet the following requirements:

- If the End Time column has a value, make no changes to the record.
- If the value of the EndTime column is null and the corresponding project record is marked as completed, update the record with the project finish time.

Which four 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.





Transact-SQL segments

FROM Project AS P
WHERE P.EndTime IS NOT NULL AND T.EndTime is NULL
FROM Task AS T
WHERE P.EndTime IS NULL AND T.EndTime IS NOT NULL
UPDATE T SET T.EndTime = P.EndTime
INNER JOIN Project AS P ON T.ProjectId = P.ProjectId
INNER JOIN Task AS T ON T.UserId = P.UserId
UPDATE P SET P.EndTime = T.EndTime

Answer Area



Answer:

Transact-SQL segments	Answer Area
FROM Project AS P	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">   </div> <div style="text-align: center;">   </div> </div>
WHERE P.EndTime IS NOT NULL AND T.EndTime is NULL	
FROM Task AS T	
WHERE P.EndTime IS NULL AND T.EndTime IS NOT NULL	
UPDATE T SET T.EndTime = P.EndTime	
INNER JOIN Project AS P ON T.ProjectId = P.ProjectId	
INNER JOIN Task AS T ON T.UserId = P.UserId	
UPDATE P SET P.EndTime = T.EndTime	

Explanation:

Box 1: UPDATE T SET T.EndTime = P.EndTime

We are updating the EndTime column in the Task table.

Box 2: FROM Task AS T

Where are updating the task table.

Box 3: INNER JOIN Project AS P on T.ProjectID = P.ProjectID We join with the Project table (on the ProjectID columnID column).

Box 4: WHERE P.EndTime is NOT NULL AND T.EndTime is NULL We select the columns in the Task Table where the EndTime column in the Project table has a value (NOT NULL), but where it is NULL in the Task Table.

References: <https://msdn.microsoft.com/en-us/library/ms177523.aspx>

QUESTION 14

Drag and Drop Question

You need to create a stored procedure that meets the following requirements:

- Produces a warning if the credit limit parameter is greater than 7,000
- Propagates all unexpected errors to the calling process

How should you complete the Transact-SQL statement? To answer, drag the appropriate Transact-SQP segments to the correct locations. Each Transact-SQL segments 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.

Transact-SQL segments	Answer Area
RAISERROR ('Warning: Credit limit is over 7,000!', 16, 1)	<pre> CREATE PROC dbo.UpdateCustomer @CustomerID int, @CreditLimit money AS BEGIN DECLARE @ErrorMessage varchar(1000) BEGIN TRY T <div style="border: 1px dashed black; padding: 5px; text-align: center;">Transact-SQL segment</div> UPDATE dbo.Customer SET CreditLimit = @CreditLimit WHERE CustomerID = @CustomerID END TRY BEGIN CATCH SET @ErrorMessage = ERROR_MESSAGE() INSERT INTO dbo.ErrorLog(ApplicationID, [Date], ErrorMessage) VALUES (1, GETDATE(), @ErrorMessage) <div style="border: 1px dashed black; padding: 5px; text-align: center;">Transact-SQL segment</div> END CATCH END </pre>
RAISERROR ('Warning: Credit limit is over 7,000!', 10, 1)	
THROW 51000, 'Warning: Credit limit is over 7,000!', 1	
THROW	
RAISERROR (@ErrorMessage, 16, 1)	
RAISERROR (@ErrorMessage, 10, 1)	
THROW 51000, @ErrorMessage, 1	
RAISERROR (@ErrorMessage, 20, 1) WITH LOG	

Answer:

Transact-SQL segments

```
RAISERROR ('Warning: Credit
limit is over 7,000!', 16, 1)
RAISERROR ('Warning: Credit
limit is over 7,000!', 10, 1)
THROW 51000, 'Warning: Credit
limit is over 7,000!', 1
THROW
RAISERROR (@ErrorMessage, 16, 1)
RAISERROR (@ErrorMessage, 10, 1)
THROW 51000, @ErrorMessage, 1
RAISERROR (@ErrorMessage, 20, 1)
WITH LOG
```

Answer Area

```
CREATE PROC dbo.UpdateCustomer @CustomerID int, @CreditLimit money
AS
BEGIN
    DECLARE @ErrorMessage varchar(1000)
    BEGIN TRY
        THROW 51000, 'Warning: Credit
        limit is over 7,000!', 1
        UPDATE dbo.Customer
        SET CreditLimit = @CreditLimit
        WHERE CustomerID = @CustomerID
    END TRY
    BEGIN CATCH
        SET @ErrorMessage = ERROR_MESSAGE()
        INSERT INTO dbo.ErrorLog (ApplicationID, [Date], ErrorMessage)
        VALUES (1, GETDATE(), @ErrorMessage)
        RAISERROR (@ErrorMessage, 16, 1)
    END CATCH
END
```

Explanation:

Box 1: THROW 51000, 'Warning: Credit limit is over 7,000!',1

THROW raises an exception and transfers execution to a CATCH block of a TRY...CATCH construct in SQL Server.

THROW syntax:

```
THROW [ { error_number | @local_variable },
{ message | @local_variable },
{ state | @local_variable } ]
[ ; ]
```

Box 2: RAISERROR (@ErrorMessage, 16,1)

RAISERROR generates an error message and initiates error processing for the session. RAISERROR can either reference a user-defined message stored in the sys.messages catalog view or build a message dynamically. The message is returned as a server error message to the calling application or to an associated CATCH block of a TRY...CATCH construct. New applications should use THROW instead.

Severity levels from 0 through 18 can be specified by any user. Severity levels from 19 through 25 can only be specified by members of the sysadmin fixed server role or users with ALTER TRACE permissions. For severity levels from 19 through 25, the WITH LOG option is required.

On Severity level 16. Using THROW to raise an exception The following example shows how to use the THROW statement to raise an exception.

Transact-SQL

THROW 51000, 'The record does not exist.', 1;

Here is the result set.

Msg 51000, Level 16, State 1, Line 1

The record does not exist.

Note: RAISERROR syntax:

```
RAISERROR ( { msg_id | msg_str | @local_variable } { ,severity ,state }
[ ,argument [ ,...n ] ] )
[ WITH option [ ,...n ] ]
```

Note: The ERROR_MESSAGE function returns the message text of the error that caused the CATCH block of a TRY...CATCH construct to be run.

References:

<https://msdn.microsoft.com/en-us/library/ms178592.aspx>

<https://msdn.microsoft.com/en-us/library/ms190358.aspx>

<https://msdn.microsoft.com/en-us/library/ee677615.aspx>

QUESTION 15

Hotspot Question

You have the following stored procedure:

```
CREATE PROC dbo.UpdateLogs @Code char(5), @ApplicationId int, @Info varchar(1000)
AS
BEGIN
    BEGIN TRY
        BEGIN TRAN
            INSERT INTO dbo.Log1 VALUES (@Code, @ApplicationId, @Info)
            IF @Code = 'C2323' AND @ApplicationId = 1
                RAISERROR('C2323 code from HR application!', 16, 1)
            ELSE
                INSERT INTO dbo.Log2 VALUES (@Code, @ApplicationId, @Info)
                INSERT INTO dbo.Log3 VALUES (@Code, @ApplicationId, @Info)
            BEGIN TRAN
                IF @Code = 'C2323'
                    ROLLBACK TRAN
                ELSE
                    INSERT INTO dbo.Log4 VALUES (@Code, @ApplicationId, @Info)
                    IF @@TRANCOUNT > 0
                        COMMIT TRAN
            END TRY
        BEGIN CATCH
            IF XACT_STATE() != 0
                ROLLBACK TRAN
        END CATCH
    END
```

You run the following Transact-SQL statements:

```
EXEC dbo.UpdateLogs 'C2323', 1, 'Employee records are updated.'
EXEC dbo.UpdateLogs 'C2323', 10, 'Sales process started.'
```

What is the result of each Transact-SQL statement? To answer, select the appropriate options in the answer area.

Answer Area

Stored procedure execution

Result

First stored procedure execution

- ☐ All transactions are rolled back.
- ☐ Only the Log1 and Log3 tables are updated.
- ☐ Only the Log1 table is updated.
- ☐ All four tables are updated.

Second stored procedure execution

- ☐ Only the Log1, Log2, and Log3 tables are updated.
- ☐ All transactions are rolled back.
- ☐ Only the Log1 table is updated.
- ☐ Only the Log1 and Log3 tables are updated.

Answer:

Answer Area

Stored procedure execution

Result

First stored procedure execution

All transactions are rolled back.
Only the Log1 and Log3 tables are updated.
Only the Log1 table is updated.
All four tables are updated.

Second stored procedure execution

Only the Log1, Log2, and Log3 tables are updated.
All transactions are rolled back.
Only the Log1 table is updated.
Only the Log1 and Log3 tables are updated.

Explanation:

Box 1: All transactions are rolled back.

The first IF-statement, IF @CODE = 'C2323' AND @ApplicationID = 1, will be true, an error will be raised, the error will be caught in the CATCH block, and the only transaction that has been started will be rolled back.

Box 2: Only Log1, Log2, and Log3 tables are updated. The second IF-statement, IF @Code = 'C2323', will be true, so the second transaction will be rolled back, but log1, log2, and log3 was updated before the second transaction.

QUESTION 16

Hotspot Question

You need to develop a Transact-SQL statement that meets the following requirements:

- The statement must return a custom error when there are problems updating a table.
- The error number must be value 50555.
- The error severity level must be 14.
- A Microsoft SQL Server alert must be triggered when the error condition occurs.

Which Transact-SQL segment should you use for each requirement? To answer, select the appropriate Transact-SQL segments in the answer area.

Answer Area

Requirement

Transact-SQL segment

Check for error condition

BEGIN TRANSACTION...END TRANSACTION
TRY_PARSE
BEGIN...END
TRY...CATCH

Custom error implementation

THROW 50555, 'The update failed.', 1
RAISERROR (50555, 14,1, 'The update failed.') WITH LOG
RAISERROR (50555, 14,1 'The update failed.') WITH NOWAIT
RAISERROR (50555, 'The update failed.')

Answer:

Answer Area

Requirement	Transact-SQL segment
Check for error condition	<div> <div>BEGIN TRANSACTION...END TRANSACTION</div> <div>TRY_PARSE</div> <div>BEGIN...END</div> <div>TRY...CATCH</div> </div>
Custom error implementation	<div> <div>THROW 50555, 'The update failed.', 1</div> <div>RAISERROR (50555, 14, 1, 'The update failed.') WITH LOG</div> <div>RAISERROR (50555, 14, 1 'The update failed.') WITH NOWAIT</div> <div>RAISERROR (50555, 'The update failed.')</div> </div>

Explanation:

Box 1: TRY...CATCH

The TRY...CATCH Transact-SQL construct implements error handling for Transact-SQL that is similar to the exception handling in the Microsoft Visual C# and Microsoft Visual C++ languages. A group of Transact-SQL statements can be enclosed in a TRY block. If an error occurs in the TRY block, control is passed to another group of statements that is enclosed in a CATCH block.

Box 2: RAISERROR(50555, 14, 1 'The update failed.') WITH LOG We must use RAISERROR to be able to specify the required severity level of 14, and we should also use the LOG option, which Logs the error in the error log and the application log for the instance of the Microsoft SQL Server Database Engine, as this enable a MS MS SQL SERVER alert to be triggered.

Note: RAISERROR generates an error message and initiates error processing for the session. RAISERROR can either reference a user-defined message stored in the sys.messages catalog view or build a message dynamically. The message is returned as a server error message to the calling application or to an associated CATCH block of a TRY...CATCH construct.

QUESTION 17

Drag and Drop Question

You need to create a stored procedure to update a table named Sales.Customers. The structure of the table is shown in the exhibit. (Click the exhibit button.)

Sales.Customers	
Columns	
	custid (PK, int, not null)
	companyname (nvarchar(40), not null)
	contactname (nvarchar(30), not null)
	contacttitle (nvarchar(30), not null)
	address (nvarchar(60), not null)
	city (nvarchar(15), not null)
	region (nvarchar(15), null)
	postalcode (nvarchar(10), null)
	country (nvarchar(15), not null)
	phone (nvarchar(24), not null)
	fax (nvarchar(24), null)

The stored procedure must meet the following requirements:

- Accept two input parameters.

- Update the company name if the customer exists.
- Return a custom error message if the customer does not exist.

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. NOTE: More than one order of answer choices is correct. You will receive credit for any of the correct orders you select.

Transact-SQL segments

Answer Area

CREATE PROCEDURE Sales.ModCompanyName @custID int, @newname nvarchar(40) AS
IF NOT EXISTS (SELECT custid FROM Sales.Customers WHERE custid = @custID)
UPDATE Sales.Customers SET companyname = @newname WHERE custid = @custID
BEGIN THROW 55555, 'The customer ID does not exist', 1 END
UPDATE Sales.Customers SET companyname = @custID WHERE custid = @newname
IF EXISTS (SELECT custid FROM Sales.Customers WHERE custid = @custID)
ROLLBACK TRANSACTION



Answer:

Transact-SQL segments

Answer Area

CREATE PROCEDURE Sales.ModCompanyName @custID int, @newname nvarchar(40) AS
IF NOT EXISTS (SELECT custid FROM Sales.Customers WHERE custid = @custID)
UPDATE Sales.Customers SET companyname = @newname WHERE custid = @custID
BEGIN THROW 55555, 'The customer ID does not exist', 1 END
UPDATE Sales.Customers SET companyname = @custID WHERE custid = @newname
IF EXISTS (SELECT custid FROM Sales.Customers WHERE custid = @custID)
ROLLBACK TRANSACTION



CREATE PROCEDURE Sales.ModCompanyName @custID int, @newname nvarchar(40) AS
IF EXISTS (SELECT custid FROM Sales.Customers WHERE custid = @custID)
UPDATE Sales.Customers SET companyname = @newname WHERE custid = @custID
IF NOT EXISTS (SELECT custid FROM Sales.Customers WHERE custid = @custID)
BEGIN THROW 55555, 'The customer ID does not exist', 1 END

QUESTION 18

You need to create an indexed view that requires logic statements to manipulate the data that the view displays. Which two database objects should you use? Each correct answer presents a complete solution.

- A. a user-defined table-valued function
- B. a CLR function

- C. a stored procedure
- D. a user-defined scalar function

Answer: AC





QUESTION 19

Drag and Drop Question

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 User Login 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 User Login 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.

Code segments	Answer Area
BEGIN CATCH RAISERROR ('No tables updated!', 16, 1) END CATCH	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">   </div> <div style="text-align: center;">   </div> </div>
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:

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
    END CATCH
        
```

Answer Area

```

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

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

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

Explanation:

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 20

You work for an organization that monitors seismic activity around volcanos. You have a table named GroundSensors. The table stored data collected from seismic sensors. It includes the columns describes in the following table:

Name	Data Type	Notes
SensorID	int	primary key
Location	geography	do not allow null values
Tremor	int	do not allow null values
NormalizedReading	float	allow null values

The database also contains a scalar value function named NearestMountain that returns the name of the mountain that is nearest to the sensor. You need to create a query that shows the average of the normalized readings from the sensors for each mountain. The query must meet the following requirements:

- Include the average normalized readings and nearest mountain name.
- Exclude sensors for which no normalized reading exists.
- Exclude those sensors with value of zero for tremor.

Construct the query using the following guidelines:

- Use one part names to reference tables, columns and functions.
- Do not use parentheses unless required.
- Do not use aliases for column names and table names.
- Do not surround object names with square brackets.

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

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.

```
1 select
```

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

Answer: GROUP BY

Explanation:

GROUP BY is a SELECT statement clause that divides the query result into groups of rows, usually for the purpose of performing one or more aggregations on each group. The SELECT statement returns one row per group.

References: <https://msdn.microsoft.com/en-us/library/ms177673.aspx>

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