

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)	80 88 880
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:

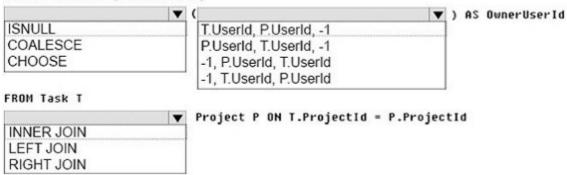
- Return each task's owner if the task has an owner.
- If a task has no owner, but is associated with a project that has an owner, return the project's owner.
- Return the value -1 for all other cases.

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



Answer Area

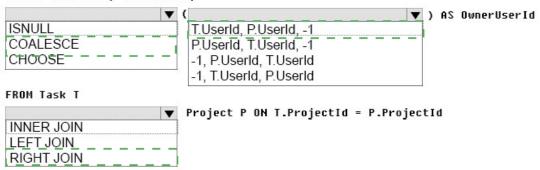
SELECT T.TaskId, T.TaskName,



Answer:

Answer Area

SELECT T.TaskId, T.TaskName,



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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following columns:

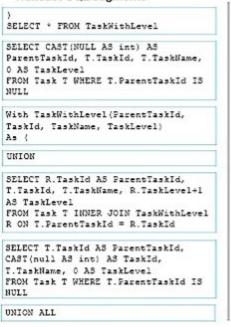
Column name	Data type	Notes
ProjectId	int	This is a unique identifier for a project.
ProjectName	varchar(100)	30 32 300
StartTime	datetime2(7)	
EndTime	datetime2(7)	A null value indicates the project is not finished yet.
UserId	int	Identifies the owner of the project.
TaskId	int	This is a unique identifier 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



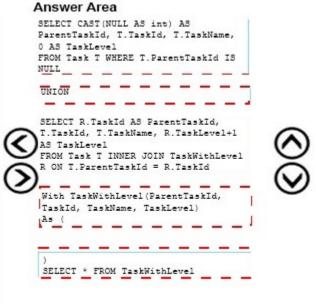
Answer Area











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 went 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)	80 88 880
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
	E P.EndTime IS NOT NULL AND dTime is NULL
FROM	Task AS T
	E P.EndTime IS NULL AND T.EndTime OT NULL
UPDA	TE T SET T.EndTime = P.EndTime
	R JOIN Project AS P ON T.ProjectId ProjectId
INNE P.Us	R JOIN Task AS T ON T.UserId = erId
HDDA	TE P SET P.EndTime = T.EndTime

Answer Area







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





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 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

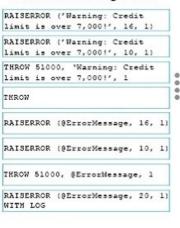
Drag and Drop Question

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

```
CREATE PROC dbo. UpdateCustomer @CustomerID int. @CreditLimit money
AS.
BEGIN
     DECLARE @ErrorMessage varchar(1000)
     BEGIN TRY
                     Transact-SQL segment
          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)
                      Transact-SQL segment
     END CATCH
END
```



Answer:

Transact-SQL segments

```
RAISERROR ('Warning: Credit limit in ower 7,000'', 16, 1)

RAISERROR ('Warning: Credit limit is over 7,000!', 10, 1)

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

THROW

RAISERROR (@ErrorMessage, 16, 1)

THROW 51000, @ErrorMessage, 10, 1)

THROW 51000, @ErrorMessage, 1

RAISERROR (@ErrorMessage, 1

RAISERROR (@ErrorMessage, 20, 1)

WITH LOG
```

Answer Area

```
CREATE PROC dbo. UpdateCustomer @CustomerID int, @CreditLimit money
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
   BEGIN CATCH
        SET @ErrorMessage = ERROR_MESSAGE()
        INSERT INTO dbo.ErrorLog(ApplicationID, [Date], ErrorMessage)
        VALUES (1, GETDATE(), @ErrorMessage)
          RAISERROR (@ErrorMessage, 16, 1)
          ______
   END CATCH
```

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)
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)
                    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 Area

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 table is updated. Only the Log1 table is updated. Only the Log1 and Log3 tables are 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 TRANSACTIONEND TRANSACTION
	TRY_PARSE BEGINEND TRYCATCH
Custom error implementation	
Custom error implementation	THOW 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.')
	4 29 29 29 29

Answer:

Answer Area

Requirement Check for error condition BEGIN TRANSACTION...END TRANSACTION TRY_PARSE BEGIN...END TRY...CATCH Custom error implementation THOW 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.')

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.

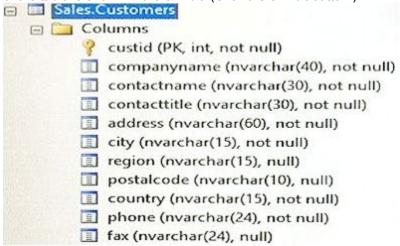
Box 2: RAISERROR(50555, 14, 1 'The update failed.") WITH LOG We must use RAISERROR to be able to specify the required severity level of 14, and we should also use the LOG option, which Logs the error in the error log and the application log for the instance of the Microsoft SQL Server Database Engine,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



The stored procedure must meet the following requirements:

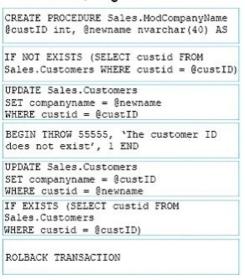
- Accept two input parameters.



- 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



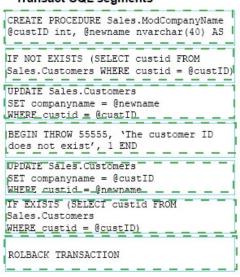
Answer Area



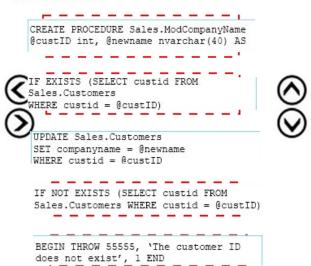


Answer:

Transact-SQL segments



Answer Area



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 CRL function

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

Answer: AC

QUESTION 19

Drag and Drop Question

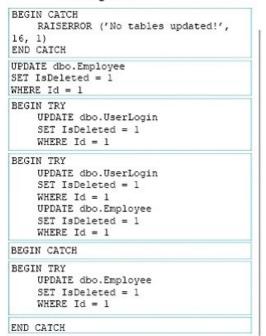
You have two tables named UserLogin and Employee respectively. You need to create a Transact-SQL script that meets the following requirements:

- 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 answerarea and arrange them in the correct order.

Code segments

Answer Area









Code segments

SET IsDeleted = 1

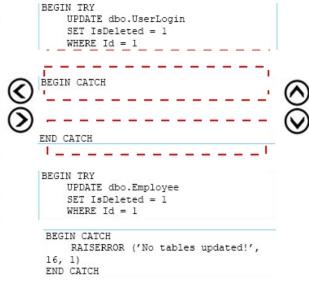
UPDATE dbo.Employee

SET IsDeleted = 1 WHERE Id = 1

WHERE Id = 1



Answer Area



Explanation:

BEGIN CATCH

BEGIN TRY

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

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.

WRITETEXT



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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