

70-761^{Q&As}

Querying Data with Transact-SQL

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QUESTION 1

SIMULATION

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 accepts a parameter of type geography and 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:

Return the average normalized readings named AverageReading.

Return the nearest mountain name named Mountain.

Do not return any other columns.

Exclude sensors for which no normalized reading exists.

Construct the query using the following guidelines:

Use one part names to reference tables, columns and functions.

Do not use parentheses unless required.

Define column headings using the AS keyword.

Do not surround object names with square brackets.

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Keywords

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

WRITETEXT

PRINT

EXISTS



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 avg (normalizedreading) as a gragereading, location as mountain
- 2 FROM GroundSensors
- 3 WHERE normalizedreading is not mull

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

QUESTION 2

HOTSPOT

You have the following subqueries: Subquery1, Subquery2, and Subquery3.

You need to replace the three subqueries with named result sets or temporary tables. The following requirements must be met:

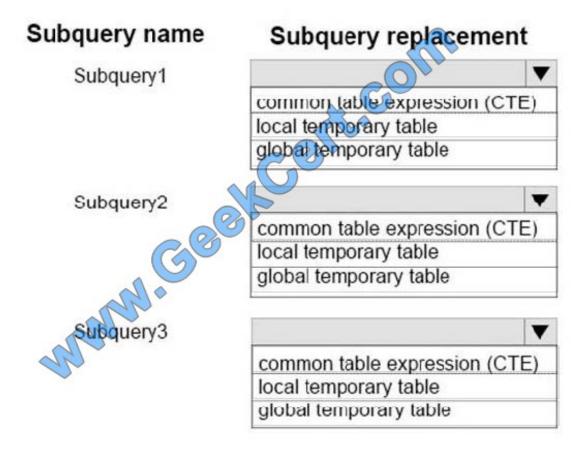
Subquery name	Requirements	
Subquery 1	The result set of this subquery must use the execution scope of a SELECT statement.	
Subquery2	The result set of this subquery must be visible to other session users before disconnected.	
Subquery3	The result set of this subquery must be accessible to other statements in the same session but must not be visible to other sessions.	

Which replacement techniques should you use? To answer, select the appropriate options in the answer area.

Hot Area:



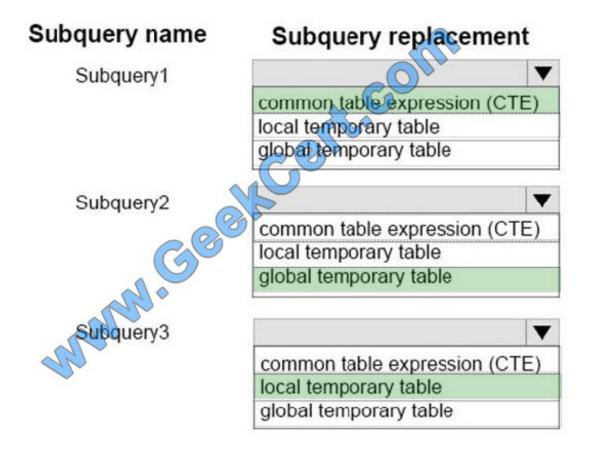
Answer Area



Correct Answer:



Answer Area



Subquery1: common table expression (CTE)

A common table expression (CTE) can be thought of as a temporary result set that is defined within the execution scope of a single SELECT, INSERT, UPDATE, DELETE, or CREATE VIEW statement. A CTE is similar to a derived table in

that it is not stored as an object and lasts only for the duration of the query. Unlike a derived table, a CTE can be self-referencing and can be referenced multiple times in the same query.

Subquery2: global temporary table

Global temporary tables are visible to any user and any connection after they are created, and are deleted when all users that are referencing the table disconnect from the instance of SQL Server.

Subquery3: local temporary table

Local temporary tables are visible only to their creators during the same connection to an instance of SQL Server as when the tables were first created or referenced. Local temporary tables are deleted after the user disconnects from the

instance of SQL Server.

References:

https://technet.microsoft.com/en-us/library/ms190766(v=sql.105).aspx

https://technet.microsoft.com/en-us/library/ms186986.aspx

QUESTION 3

SIMULATION

You have a database that includes the following tables. All of the tables are in the Production schema.



You need to create a query that returns a list of product names for all products in the Beverages category.

Construct the query using the following guidelines:

Use the first letter of the table name as the table alias.

Use two-part column names.

Do not surround object names with square brackets.

Do not use implicit joins.

Do not use variables.

Use single quotes to surround literal values.

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.

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```
1 SELECT p.productname
```

3

4 WHERE c.categoryname = 'Beverages'

² FROM Production. Categories AS c

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A. Check the answer in explanation.

Correct Answer: A

QUESTION 4

Note: This question is part of a series of questions that use the same or similar answer choices. An answer choice may be correct for more than one question in the series. Each question is independent of the other questions in this series.

Information and details provided in a question apply only to that question.

You have a table named Products that contains information about the products that your company sells. The table contains many columns that do not always contain values.

You need to implement an ANSI standard method to convert the NULL values in the query output to the phrase "Not Applicable".

What should you implement?

A. the COALESCE function

B. a view

C. a table-valued function

D. the TRY_PARSE function

E. a stored procedure

F. the ISNULL function

G. a scalar function

H. the TRY CONVERT function

Correct Answer: F

The ISNULL function replaces NULL with the specified replacement value. References: https://msdn.microsoft.com/en-us/library/ms184325.aspx

QUESTION 5

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 on this series.

You have a database that tracks orders and deliveries for customers in North America. System versioning is enabled for all tables. The database contains the Sales.Customers, Application.Cities, and Sales.CustomerCategories tables.

Details for the Sales. Customers table are shown in the following table:



Column	Data type	Notes	
CustomerId	int	primary key	
CustomerCategoryId	int	foreign key to the Sales. Customer Categories table	
PostalCityID	int	foreign key to the Application. Cities table	
DeliveryCityID	int	foreign key to the Application. Cities table	
AccountOpenedDate	datetime	does not allow values	
StandardDiscountPercentage	int 📢	does not allow values	
CreditLimit	decimal(18,2)	null values are permitted	
IsOnCreditHold	bit C	does not allow values	
DeliveryLocation	geography	does not allow values	
PhoneNumber	nvarchar(20)	does not allow values	
ValidFrom	datetime2(7)	does not allow values, GENERATED ALWAYS AS ROW START	
ValidTo	datetime2(7)	does not allow values, GENERATED ALWAYS AS ROW END	

Details for the Application. Cities table are shown in the following table:

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

Details for the Sales.CustomerCategories table are shown in the following table:

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

You are preparing a promotional mailing. The mailing must only be sent to customers in good standing that live in medium and large cities. You need to write a query that returns all customers that are not on credit hold who live in cities with a population greater than 10,000.

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

Select and Place:



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Transact-SQL segments Answer Area IN SELECT CustomerID FROM Sales.Customers WHERE EXISTS Transact-SQL segment PostalCityID WHERE SELECT CityID FROM Application. Citites HAVING LatestRecordedPopulation > 10000 Transac:-SQL segment 00 LIKE Transact-SQL segment 1 Transact-SQL segment AND [IsOnCreditHold] = 0

Correct Answer:



Box 1: IN (

The IN clause determines whether a specified value matches any value in a subquery or a list.

Syntax: test_expression [NOT] IN (subquery | expression [,...n])

Where subquery is a subquery that has a result set of one column. This column must have the same data type as test_expression.

Box 2: WHERE

Box 3: AND [IsOnCreditHold] = 0

Box 4:)

References: https://msdn.microsoft.com/en-us/library/ms177682.aspx

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