



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.



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
ESCEFT	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 avg (normalizedreading) as averagereading, location as mountain
2 FROM GroundSensors
3 WHERE normalizedreading is not null
```

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
Subquery1	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

Subquery name

Subquery replacement

Subquery1

	▼
common table expression (CTE)	
local temporary table	
global temporary table	

Subquery2

	▼
common table expression (CTE)	
local temporary table	
global temporary table	

Subquery3

	▼
common table expression (CTE)	
local temporary table	
global temporary table	

Correct Answer:



Answer Area

Subquery name	Subquery replacement				
Subquery1	<table border="1"><tr><td>▼</td></tr><tr><td>common table expression (CTE)</td></tr><tr><td>local temporary table</td></tr><tr><td>global temporary table</td></tr></table>	▼	common table expression (CTE)	local temporary table	global temporary table
▼					
common table expression (CTE)					
local temporary table					
global temporary table					
Subquery2	<table border="1"><tr><td>▼</td></tr><tr><td>common table expression (CTE)</td></tr><tr><td>local temporary table</td></tr><tr><td>global temporary table</td></tr></table>	▼	common table expression (CTE)	local temporary table	global temporary table
▼					
common table expression (CTE)					
local temporary table					
global temporary table					
Subquery3	<table border="1"><tr><td>▼</td></tr><tr><td>common table expression (CTE)</td></tr><tr><td>local temporary table</td></tr><tr><td>global temporary table</td></tr></table>	▼	common table expression (CTE)	local temporary table	global temporary table
▼					
common table expression (CTE)					
local temporary table					
global temporary table					

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/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.



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
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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 SELECT p.productname
2 FROM Production.Categories AS c
3
4 WHERE c.categoryname = 'Beverages'
```




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.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 values
StandardDiscountPercentage	int	does not allow values
CreditLimit	decimal(18,2)	null values are permitted
IsOnCreditHold	bit	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:



Transact-SQL segments

IN

EXISTS

WHERE

HAVING

LIKE

)

AND [IsOnCreditHold] = 0

Answer Area

```
SELECT CustomerID
FROM Sales.Customers
WHERE
PostalCityID [Transact-SQL segment]

SELECT CityID
FROM Application.Cities
[Transact-SQL segment] LatestRecordedPopulation > 10000
[Transact-SQL segment]
[Transact-SQL segment]
```

Correct Answer:

Transact-SQL segments

EXISTS

HAVING

LIKE

Answer Area

```
SELECT CustomerID
FROM Sales.Customers
WHERE
PostalCityID IN [ ]

SELECT CityID
FROM Application.Cities
WHERE [ ] LatestRecordedPopulation > 10000
AND [IsOnCreditHold] = 0
[ ]
```

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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