



# 70-761<sup>Q&As</sup>

Querying Data with Transact-SQL

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**QUESTION 1**

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 create a table by running the following Transact-SQL statement:

```
CREATE TABLE Customers (  
    CustomerID int NOT NULL PRIMARY KEY CLUSTERED,  
    FirstName nvarchar(100) NOT NULL,  
    LastName nvarchar(100) NOT NULL,  
    TaxIdNumber varchar(20) NOT NULL,  
    Address nvarchar(1024) NOT NULL,  
    AnnualRevenue decimal(19,2) NOT NULL,  
    DateCreated datetime2(2) NOT NULL,  
    ValidFrom datetime2(2) GENERATED ALWAYS AS ROW START NOT NULL,  
    ValidTo datetime2(2) GENERATED ALWAYS AS ROW END NOT NULL,  
    PERIOD FOR SYSTEM_TIME(ValidFrom, ValidTo)  
)  
WITH (SYSTEM_VERSIONING = ON (HISTORY_TABLE = CustomersHistory))
```

You need to develop a query that meets the following requirements:

Output data by using a tree-like structure.

Allow mixed content types.

Use custom metadata attributes.

Which Transact-SQL statement should you run?



- A. `SELECT CustomerID, FirstName, LastName, TaxIdNumber, Address, AnnualRevenue, DateCreated  
FROM Customers  
GROUP BY GROUPING SETS((FirstName, LastName), (Address)), (CustomerID, AnnualRevenue), (CustomerID), ());  
ORDER BY CustomerID, FirstName, LastName, Address, AnnualRevenue`
- B. `SELECT FirstName, LastName, Address  
FROM Customers  
FOR SYSTEM_TIME ALL ORDER BY ValidFrom`
- C. `SELECT c.CustomerID, c.FirstName, c.LastName, c.Address, c.ValidFrom, c.ValidTo  
FROM Customers AS c  
ORDER BY c.CustomerID  
FOR JSON AUTO, ROOT('Customers')`
- D. `SELECT * FROM (SELECT CustomerID, FirstName, LastName, Address, AnnualRevenue, DateCreated  
FROM Customers) AS Customers PIVOT(AVG(AnnualRevenue)  
FOR DateCreated IN([2014])) AS PivotCustomers  
ORDER BY LastName, FirstName`
- E. `SELECT CustomerID, AVG(AnnualRevenue)  
AS AverageAnnualRevenue, FirstName, LastName, Address, DateCreated  
FROM Customers WHERE YEAR(DateCreated) >= 2014  
GROUP BY CustomerID, FirstName, LastName, Address, DateCreated`
- F. `SELECT c.CustomerID, c.FirstName, c.LastName, c.Address, c.ValidFrom, c.ValidTo  
FROM Customers AS c ORDER BY c.CustomerID  
FOR XML PATH ('CustomerData'), root ('Customers')`
- G. `SELECT CustomerID, FirstName, LastName, TaxIdNumber, Address, ValidFrom, ValidTo  
FROM Customers FOR SYSTEM_TIME  
BETWEEN '2014-01-01 00:00:00.000000' AND '2015-01-01 00:00:00.000000'`
- H. `SELECT CustomerID, FirstName, LastName, TaxIdNumber, Address, ValidFrom, ValidTo  
FROM Customers  
WHERE DateCreated  
BETWEEN '20140101' AND '20141231'`

A. B. C. D. E. F. G. H.

Correct Answer: F

In a FOR XML clause, you specify one of these modes: RAW, AUTO, EXPLICIT, and PATH.

The EXPLICIT mode allows more control over the shape of the XML. You can mix attributes and elements at will in deciding the shape of the XML. It requires a specific format for the resulting rowset that is generated because of query execution. This row set format is then mapped into XML shape. The power of EXPLICIT mode is to mix attributes and elements at will, create wrappers and nested complex properties, create space-separated values (for example, OrderID attribute may have a list of order ID values), and mixed contents.

The PATH mode together with the nested FOR XML query capability provides the flexibility of the EXPLICIT mode in a simpler manner.

References: <https://msdn.microsoft.com/en-us/library/ms178107.aspx>

## QUESTION 2

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution,



while

others might not have a correct solution.

After you answer a question in this section. You will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have a database that contains a single table named tblVehicleRegistration. The table is defined as follows:

Column name	Data type	Description
VehicleId	int	the primary key for the table
RegistrationNumber	varchar(5)	a vehicle registration number that contains only letters and numbers
RegistrationDate	date	the vehicle registration date
UserId	int	an identifier for the vehicle owner

You run the following query:

```
SELECT UserId FROM tblVehicleRegistration  
WHERE RegistrationNumber = 20012  
AND RegistrationDate > '2016-01-01'
```

The query output window displays the following error message: "Conversion failed when converting the varchar value 'AB012\' to data type int." You need to resolve the error. Solution: You modify the Transact-SQL statement as follows:

```
SELECT UserId FROM tblVehicleRegistration  
WHERE RegistrationNumber = CAST(20012 AS varchar(5))  
AND RegistrationDate > '2016-01-01'
```

Does the solution meet the goal?

- A. Yes
- B. No

Correct Answer: B

<https://docs.microsoft.com/en-us/sql/t-sql/functions/cast-and-convert-transact-sql?view=sql-server-2017>

### QUESTION 3

You have a database that contains the following tables: Customer



Column name	Data type	Nullable	Default value
CustomerId	int	No	Identity property
FirstName	varchar(30)	Yes	
LastName	varchar(30)	No	
CreditLimit	money	No	

CustomerAudit

Column name	Data type	Nullable	Default value
CustomerId	int	No	
DateChanged	datetime	No	GETDATE()
OldCreditLimit	money	No	
NewCreditLimit	money	No	
ChangedBy	varchar(100)	No	SYSTEM USER

Where the value of the CustomerID column equals 3, you need to update the value of the CreditLimit column to 1000 for the customer. You must ensure that the change to the record in the Customer table is recorded on the CustomerAudit table.

Which Transact-SQL statement should you run?



- A.  
UPDATE Customer  
SET CreditLimit= 1000  
OUTPUT inserted. CustomerId, deleted. CreditLimit, deleted. CreditLimit  
INTO CustomerAudit (CustomerId, OldCreditLimit, NewCreditLimit, ChangedBy)  
WHERE CustomerId=3
- B.  
UPDATE Customer  
SET CreditLimit= 1000  
OUTPUT inserted. CustomerId, GETDATE (), deleted. CreditLimit, inserted. CreditLimit, SYSTEM\_USER  
INTO CustomerAudit (CustomerId, DateChanged, OldCreditLimit, NewCreditLimit, ChangedBy)  
WHERE CustomerId=3
- C.  
UPDATE Customer  
SET CreditLimit= 1000  
WHERE CustomerId=3  
INSERT INTO CustomerAudit (CustomerId, DateChanged, OldCreditLimit, NewCreditLimit,  
ChangedBy)  
SELECT CustomerId, GETDATE (), CreditLimit, CreditLimit, SYSTEM\_USER  
FROM Customer  
WHERE CustomerID =3
- D.  
UPDATE Customer  
SET CreditLimit= 1000  
OUTPUT inserted. CustomerId, inserted. CreditLimit, inserted. CreditLimit  
INTO CustomerAudit (CustomerId, OldCreditLimit, NewCreditLimit)  
WHERE CustomerId=3

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: C

#### QUESTION 4

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while

others might not have a correct solution.



After you answer a question in this section. You will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have a table that was created by running the following Transact-SQL statement:

```
CREATE TABLE Products (  
    ProductID int NOT NULL PRIMARY KEY,  
    ProductName nvarchar(100) NULL,  
    UnitPrice decimal(18, 2) NOT NULL,  
    UnitsInStock int NOT NULL,  
    UnitsOnOrder int NULL  
)
```

The Products table includes the data shown in the following table:

ProductID	ProductName	UnitPrice	UnitsInStock	UnitsOnOrder
1	ProductA	10.00	10	15
2	ProductB	30.00	20	Null
3	ProductC	15.00	5	20

TotalUnitPrice is calculated by using the following formula:

TotalUnitPrice = UnitPrice \* (UnitsInStock + UnitsOnOrder)

You need to ensure that the value returned for TotalUnitPrice for ProductB is equal to 600.00.

Solution: You run the following Transact-SQL statement:

```
SELECT ProductName, UnitPrice*(UnitsInStock+UnitsOnOrder) AS  
TotalUnitPrice FROM Products
```

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

The NULL value in the UnitsOnOrder field would cause a runtime error.

## QUESTION 5

### SIMULATION

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



```
CREATE TABLE Sales.Categories (  
    CategoryID smallint NOT NULL PRIMARY KEY,  
    Name nvarchar(50) NOT NULL,  
    ParentCategoryID int NULL  
)
```

You add the following data to the table.

CategoryID	Name	ParentCategoryID
1	Electronics	NULL
2	Cameras and photography	1
3	Computers and tablets	1
4	Cell phones and accessories	1
5	TV and audio	1
6	Digital cameras	2
9	laptops	3
13	Household goods	NULL
14	Bathroom items	13
15	Shower curtains	14

You need to create a query that uses a common table expression (CTE) to show the parent category of each category. The query must meet the following requirements:

Return all columns from the Categories table in the order shown.

Exclude all categories that do not have a parent category.

Construct the query using the following guidelines:

Name the expression ParentCategories.

Use PC as the alias for the expression.

Use C as the alias for the Categories table.

Use the AS keyword for all table aliases.

Use individual column names for each column that the query returns.

Do not use a prefix for any column name.

Do not use implicit joins.

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	SEC
CONTAINS	KEY	SECUSER
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 c (SELECT c.categoryid,c.name,c.parentcategoryid
2     FROM sales.categories c
3     WHERE parentcategoryid is not null
4     )
5 SELECT * FROM parentcategories
```

Use the Check Syntax button to verify your work. Any syntax or spelling errors will be reported by line and character position. You may check syntax as many times as needed.

Correct Answer:

```
1 WITH ParentCategories pc (CategoryID, Name, PatentCategoryID) AS (SELECT
c.categoryID,c.name,c.parentcategoryid
```

```
2 FROM sales.categories c
```

```
3 WHERE parentcategoryid is not null
```

```
4 )
```

```
5 SELECT * FROM parentcategories
```

Note: On Line 1 replace c with WITH ParentCategories pc (CategoryID, Name, PatentCategoryID) AS

Note: The basic syntax structure for a CTE is:

```
WITH expression_name [ ( column_name [...n] ) ]
```

```
AS
```

```
( CTE_query_definition )
```

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)

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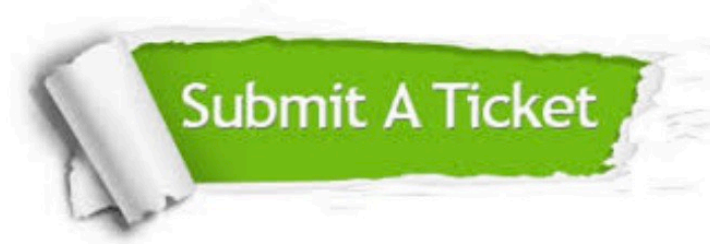
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