



# 70-461<sup>Q&As</sup>

Querying Microsoft SQL Server 2012/2014

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**QUESTION 1**

You administer a database that includes a table named Customers that contains more than 750 rows. You create a new column named PartitionNumber of the int type in the table. You need to assign a PartitionNumber for each record in the Customers table. You also need to ensure that the PartitionNumber satisfies the following conditions:

-Always starts with 1.

-

Starts again from 1 after it reaches 100. Which Transact-SQL statement should you use?

A.

```
CREATE SEQUENCE CustomerSequence AS int START WITH 0 INCREMENT BY 1 MINVALUE 1 MAXVALUE 100
UPDATE Customers SET PartitionNumber = NEXT VALUE FOR CustomerSequence DROP SEQUENCE
CustomerSequence
```

B.

```
CREATE SEQUENCE CustomerSequence AS int START WITH 1 INCREMENT BY 1 MINVALUE 1 MAXVALUE 100
CYCLE UPDATE Customers SET PartitionNumber = NEXT VALUE FOR CustomerSequence DROP SEQUENCE
CustomerSequence
```

C.

```
CREATE SEQUENCE CustomerSequence AS int START WITH 1 INCREMENT BY 1 MINVALUE 1 MAXVALUE 100
UPDATE Customers SET PartitionNumber = NEXT VALUE FOR CustomerSequence + 1 DROP SEQUENCE
CustomerSequence
```

D.

```
CREATE SEQUENCE CustomerSequence AS int START WITH 1 INCREMENT BY 1 MINVALUE 0 MAXVALUE 100
CYCLE UPDATE Customers SET PartitionNumber = NEXT VALUE FOR CustomerSequence DROP SEQUENCE
CustomerSequence
```

Correct Answer: B

<http://msdn.microsoft.com/en-us/library/ff878091.aspx>

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**QUESTION 2**

Which of the following T-SQL statements automatically occur in the context of a transaction? (Choose all that apply.)

A. An ALTER TABLE command

B. A PRINT command

C. An UPDATE command

D. A SET command

Correct Answer: AC



### QUESTION 3


You have a data warehouse that contains the data for all the customers of your company.

You need to create a query dynamically generates a SELECT statement from a table named CUSTOMERS. The SELECT statement must generate a full list of columns.

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 'SELECT' +
2     STUFF ((
3         SELECT ', [' + name + ']'
4         FROM
5         WHERE id = OBJECT_ID('Customers') AND
6             name <> 'name'
7         FOR
8             (''), 1, 1, '' ) +
9     'FROM [Customers]'
```





## Keywords

ADD	DESC	KILL	ROW_NUMBER
ALL	DISK	LEFT	ROWGUIDCOL
ALTER	DISTINCT	LIKE	RULE
AND	DISTRIBUTED	LINENO	SAVESCHEMA
ANY	DOUBLE	LOAD	SCHEMABINDING
AS	DROP	MAX	SECURITYAUDIT
ASC	DUMP	MERGE	SELECT
AUTHORIZATION	ELSE	NATIONAL	SEMANTICKEYPHRASETABLE
BACKUP	END	NOCHECK	SEMANTICSIMILARITYDETAILSTABLE
BEGIN	ERRLVL	NONCLUSTEREDNOT	SEMANTICSIMILARITYTABLE
BETWEEN	ERROR_NUMBER	NULL	SESSION_USER
BREAK	ESCAPE	NULLIF	SET
BROWSE	ESCEPT	OF	SETUSER
BULK	EXEC	OFF	SHUTDOWN
BY	EXECUTE	OFFSETS	SNAPSHOT
CASCADE	EXISTS	ON	SOME
CASE	EXIT	OPEN	STATISTICS
CAST	EXTERNAL	OPENDATASOURCE	SYSTEM_USER
CATCH	FETCH	OPENQUERY	TABLE
CHECK	FILE	OPENROWSET	TABLESAMPLE
CHECKPOINT	FILESTREAM	OPENXML	TEXTSIZE
CLOSE	FILLFACTOR	OPTION	THEN
CLUSTERED	FOR	OR	TO
COALESCE	FORFOREIGN	ORDER	TOP
COLLATE	FREETEXT	OUTER	TRAN
COLUMN	FREETEXTTABLE	OVER	TRANSACTION
COMMIT	FROM	PERCENT	TRIGGER
COMPUTE	FULL	PERSISTED	TRUNCATE
CONCAT	FUNCTION	PIVOT	TRY_CONVERT
CONSTRAINT	GETDATE	PLAN	TSEQUAL
CONTAINS	GO	PRECISION	UNION
CONTAINSTABLE	GOTO	PRIMARY	UNIQUE
CONTINUE	GRANT	PRINT	UNPIVOT
CONVERT	GROUP	PROC	UPDATE
CREATE	HAVING	PROCEDURE	UPDATETEXT
CROSS	HOLDLOCK	PUBLIC	USE
CREATE	IDENTITY	RAISERROR	USER
CROSS	IDENTITY_INSERT	RANK	VALUES
CURRENT	IDENTITYCOL	READ	VARYING
CURRENT_DATE	IF	READTEXT	VIEW
CURRENT_TIME	IFF	RECONFIGURE	WAITFOR
CURRENT_TIMESTAMP	IN	REFERENCES	WHEN
CURRENT_USER	INDEX	REPEATABLE	WHERE
CURSOR	INNER	REPLICATION	WHILE
DATABASE	INSERT	RESTORE	WITH
DATETIME	INT	RESTRICT	WITHIN GROUP
DBCC	INTERSECT	RETURNREVERT	WRITETEXT
DEALLOCATE	INTO	REVOKE	XML
DECLAREDEFAULT	IS	RIGHT	
DELETE	ISNULL	ROLLBACK	
DENSE_RANK	JOIN	ROWCOUNT	
DENY	KEY		



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

Correct Answer: XML PATH



In line 7 add XML PATH to get the following line:

```
FOR XML PATH (''), 1, 1, '' +
```

Here is how it works:

1.

Get XML element string with FOR XML Adding FOR XML PATH to the end of a query allows you to output the results of the query as XML elements, with the element name contained in the PATH argument. For example, if we were to run the following statement: `SELECT ', ' + name`

```
FROM temp1
```

```
FOR XML PATH ('')
```

By passing in a blank string (`FOR XML PATH('')`), we get the following instead:

```
,aaa,bbb,ccc,ddd,eee
```

2.

Remove leading comma with STUFF

The STUFF statement literally "stuffs" one string into another, replacing characters within the first string. We, however, are using it simply to remove the first character of the resultant list of values.

```
SELECT abc = STUFF( (
```

```
SELECT ', ' + NAME
```

```
FROM temp1
```

```
FOR XML PATH('')
```

```
), 1, 1, ''
```

```
FROM temp1
```

Note: The full code will be:

```
SELECT 'SELECT' +
```

```
STUFF ((
```

```
SELECT ', [' + name + ']'
```

```
FROM
```

```
WHERE id = OBJECT_ID('Customers') AND
```

```
...name = 'me'
```

```
FOR XML PATH (''), 1, 1, '' +
```

```
'FROM[Customers]'
```



References: <http://stackoverflow.com/questions/31211506/how-stuff-and-for-xml-pathwork-in-sql-server>

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#### QUESTION 4

Which operator is used when SQL Server performs a nonclustered index seek to find a row, but then also needs data from the underlying table, which is organized as a clustered index?

- A. RID Lookup
- B. Clustered Index Scan
- C. Merge Join
- D. Key Lookup

Correct Answer: D

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#### QUESTION 5

In an INSERT SELECT statement, how do you generate sequence values in specific order?

- A. Use the OVER clause in the NEXT VALUE FOR function.
- B. Specify an ORDER BY clause at the end of the query.
- C. Use TOP (100) PERCENT and ORDER BY in the query.
- D. Use TOP (9223372036854775807) and ORDER BY in the query.

Correct Answer: A

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