



70-461^{Q&As}

Querying Microsoft SQL Server 2012/2014

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QUESTION 1

You develop a Microsoft SQL Server database. You design a table to store product information. The table is defined as follows: You need to meet the following requirements:

```
CREATE TABLE Product
(
  [ProductID] INT IDENTITY(1, 1) PRIMARY KEY,
  [Code] CHAR(4) NOT NULL,
  [Name] VARCHAR(100) NOT NULL,
  [Category] VARCHAR(15) NOT NULL,
  [SubCategory] CHAR(2) NULL,
  [IsActive] BIT NOT NULL DEFAULT(1),
  [DateCreated] DATETIME,
  [DateModified] DATETIME
)
```

If a product has a product category value other than "REGULAR", the product should have a sub-category with a length of two characters. If a product has the product category "REGULAR", the product may or may not have a sub-category.

- A. ALTER TABLE Product:
ADD CONSTRAINT CK_Product_Category_Subcategory CHECK ([Category] <> 'REGULAR' AND LEN(IIF([SubCategory] IS NULL, '', [SubCategory])) = 2)
- B. ALTER TABLE Product:
ADD CONSTRAINT CK_Product_Category_Subcategory CHECK ([Category] = 'REGULAR' AND LEN(IIF([SubCategory] IS NULL, '', [SubCategory])) = 2)
- C. ALTER TABLE Product:
ADD CONSTRAINT CK_Product_Category_Subcategory CHECK ([Category] = 'REGULAR' OR LEN(IIF([SubCategory] IS NULL, '', [SubCategory])) = 2)
- D. ALTER TABLE Product:
ADD CONSTRAINT CK_Product_Category_Subcategory CHECK ([Category] <> 'REGULAR' OR LEN(IIF([SubCategory] IS NULL, '', [SubCategory])) = 2)

Which Transact-SQL statement should you use?



- A. Option A
- B. Option B
- C. Option C
- D. Option D

Correct Answer: C

Either the Category column is REGULAR, or it is not REGULAR and the length of the column is exactly 2.

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 work as a SQL Server 2012 database developer at ABC.com.

You are developing a database that will be used by a Web application. The database will store small multimedia files in several tables. The largest multimedia file is 975 kB. These multimedia files will be retrieved quite often.

How would you store these files?

- A. You should make use of a cursor.
- B. You should make use of a row-level compression.
- C. You should make use of the FileStream data type.
- D. You should make use of the VARBINARY data type.

Correct Answer: D

QUESTION 4

You are designing a data warehouse that uses SQL Server 2012. You are preparing to update the contents of a fact table that contains a non-clustered columnstore index. You need to run an update statement against the table. What should you do first?



- A. Pause the columnstore index.
- B. Change the recovery model of the database to Bulk-logged.
- C. Change the non-clustered columnstore index to be a clustered columnstore index.
- D. Drop the columnstore index.

Correct Answer: D

QUESTION 5

You are developing a database in SQL Server 2012 to store information about current employee project assignments. You are creating a view that uses data from the project assignment table. You need to ensure that the view does not become invalid if the schema of the project assignment table changes. What should you do?

- A. Create the view by using an account in the sysadmin role.
- B. Add a DDL trigger to the project assignment table to re-create the view after any schema change.
- C. Create the view in a new schema.
- D. Add a DDL trigger to the view to block any changes.

Correct Answer: B

DDL triggers are a special kind of trigger that fire in response to Data Definition Language (DDL) statements. They can be used to perform administrative tasks in the database such as auditing and regulating database operations.
Reference: DDL Triggers [https://technet.microsoft.com/en-us/library/ms190989\(v=sql.105\).aspx](https://technet.microsoft.com/en-us/library/ms190989(v=sql.105).aspx)

QUESTION 6

Your database contains a table named Products that has columns named ProductID and Name.

You want to write a query that retrieves data from the Products table sorted by Name listing 15 rows at a time.

You need to view rows 31 through 45.

Which Transact-SQL query should you create?

- A. OptionA
- B. OptionB
- C. OptionC
- D. OptionD

Correct Answer: C

The OFFSET-FETCH clause provides you with an option to fetch only a window or page of results from the result set. OFFSET-FETCH can be used only with the ORDER BY clause.



Example: Skip first 10 rows from the sorted resultset and return next 5 rows.

```
SELECT First Name + ' ' + Last Name FROM Employees ORDER BY First Name OFFSET 10 ROWS FETCH NEXT 5 ROWS ONLY;
```

References: [https://technet.microsoft.com/en-us/library/gg699618\(v=sql.110\).aspx](https://technet.microsoft.com/en-us/library/gg699618(v=sql.110).aspx)

- A.

```
WITH Data AS (SELECT *,Rn = ROW_NUMBER() OVER(ORDER BY ProductID, Name) FROM Products)
SELECT * FROM Data WHERE Data.Rn BETWEEN 30 AND 45
```
- B.

```
SELECT TOP 15 * FROM Products ORDER BY Name
```
- C.

```
SELECT * FROM Products ORDER BY Name OFFSET 30 ROWS FETCH NEXT 15 ROWS ONLY
```
- D.

```
SELECT * FROM Products ORDER BY Name FETCH ROWS BETWEEN 31 AND 45
```

QUESTION 7

```
CREATE VIEW Sales.OrdersByTerritory
AS
SELECT OrderID
       ,OrderDate
       ,SalesTerritoryID
       ,TotalDue
FROM Sales.Orders;
```

You have a view that was created by using the following code:

You need to create an inline table-valued function named Sales.fn_OrdersByTerritory,

which must meet the following requirements:

Accept the @T integer parameter.

Use one-part names to reference columns.

Filter the query results by SalesTerritoryID.

Return the columns in the same order as the order used in OrdersByTerritoryView.

Which code segment should you use?

To answer, type the correct code in the answer area.

Correct Answer: Please review the part for this answer

```
CREATE FUNCTION Sales.fn_OrdersByTerritory (@T int) RETURNS TABLE AS RETURN ( SELECT
OrderID,OrderDate,SalesTerritoryID,TotalDue FROM Sales.OrdersByTerritory WHERE SalesTerritoryID = @T )
```



QUESTION 8

You use Microsoft SQL Server 2012 database to develop a shopping cart application. You need to rotate the unique values of the ProductName field of a table-valued expression into multiple columns in the output. Which Transact-SQL operator should you use?

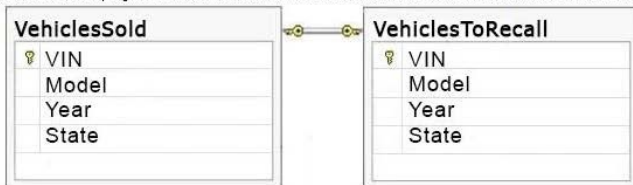
- A. CROSS JOIN
- B. CROSS APPLY
- C. PIVOT
- D. UNPIVOT

Correct Answer: C

<http://technet.microsoft.com/en-us/library/ms177634.aspx>

QUESTION 9

You are developing an SQL Server database for an automobile manufacturer. The manufacturer maintains the list of vehicles sold and vehicles that have been recalled. The tables are shown below:



You have the following Transact-SQL code. Line numbers are included for reference only.

```
01 MERGE VehiclesToRecall AS recall
02 USING VehiclesSold AS sold
03 ON recall.VIN = sold.VIN
04
05 WHEN NOT MATCHED BY TARGET
06
07 THEN INSERT(VIN, Model, Year, State)
08     VALUES(sold.VIN, sold.Model, sold.Year, sold.State)
09 WHEN MATCHED
10 THEN UPDATE SET recall.VIN = sold.VIN
11 WHEN NOT MATCHED BY SOURCE
12
13 THEN DELETE;
```

You are developing an SQL Server database for an automobile manufacturer. The manufacturer maintains the list of vehicles sold and vehicles that have been recalled. The tables are shown below: You have the following Transact-SQL code. Line numbers are included for reference only.

You must update the VehiclesToRecall table with the list of vehicles that were recalled in 2014. You must maximize the performance of the operation. For each of the following statements, select Yes if the statement is true. Otherwise, select No.



Hot Area:

Answer Area

	Yes	No
You must add the following Transact-SQL code at line 04: <code>AND sold.Year = 2014 AND recall.Year = 2014</code>	<input type="radio"/>	<input type="radio"/>
You must add the following Transact-SQL code at line 06: <code>AND sold.Year = 2014</code>	<input type="radio"/>	<input type="radio"/>
You must add the following Transact-SQL code at line 12: <code>AND recall.Year = 2014</code>	<input type="radio"/>	<input type="radio"/>

Correct Answer:

Answer Area

	Yes	No
You must add the following Transact-SQL code at line 04: <code>AND sold.Year = 2014 AND recall.Year = 2014</code>	<input checked="" type="radio"/>	<input type="radio"/>
You must add the following Transact-SQL code at line 06: <code>AND sold.Year = 2014</code>	<input checked="" type="radio"/>	<input type="radio"/>
You must add the following Transact-SQL code at line 12: <code>AND recall.Year = 2014</code>	<input type="radio"/>	<input checked="" type="radio"/>

QUESTION 10

What is the result of the WITH CHECK OPTION in a view that has a WHERE clause in its SELECT statement?

A. Data can no longer be updated through the view.



- B. Data can be updated through the view, but primary key values cannot be changed.
- C. Data can be updated through the view, but values cannot be changed that would cause rows to fall outside the filter of the WHERE clause.
- D. Data can be updated through the view, but only columns with check constraints can be changed.

Correct Answer: C

QUESTION 11

What is the main advantage of batch mode processing?

- A. It lowers the disk I/O.
- B. It speeds up network transfer.
- C. It lowers the CPU burden.
- D. It uses less memory.

Correct Answer: C

QUESTION 12

You write the following SELECT statement to get the last order date for a particular customer.

```
SELECT dbo.ufnGetLastOrderDate(CustomerId)
FROM Customer
```

You need to create the user-defined function to return the last order date for the specified customer.

Which five Transact-SQL statements should you use? (To answer, move the appropriate SQL statements from the list of statements to the answer area and arrange them in the correct order.)

Select and Place:



SQL statements

```
SELECT @OrderDate = MAX(OrderDate) AS  
OrderDate  
FROM Sales  
WHERE CustomerID = @CustomerID  
RETURN @OrderDate  
END
```

```
SELECT TOP 1 OrderDate  
FROM Sales  
WHERE CustomerID = @CustomerID  
ORDER BY OrderDate  
END
```

```
INSERT @OrderDate  
SELECT MAX(OrderDate) AS OrderDate  
FROM Sales  
WHERE CustomerID = @CustomerID  
RETURN  
END
```

```
BEGIN
```

```
CREATE FUNCTION dbo.ufnGetLastOrderDate  
(@CustomerId int)
```

```
CREATE FUNCTION dbo.ufnGetLastOrderDate  
(@CustomerId int)
```

```
DECLARE @OrderDate datetime
```

```
RETURNS datetime AS
```

```
RETURNS @OrderDate TABLE (OrderDate datetime)  
AS
```

Answer Area

Correct Answer:



SQL statements

```
SELECT TOP 1 OrderDate
FROM Sales
WHERE CustomerID = @CustomerID
ORDER BY OrderDate
END

INSERT @OrderDate
SELECT MAX(OrderDate) AS OrderDate
FROM Sales
WHERE CustomerID = @CustomerID
RETURN
END

CREATE FUNCTION dbo.ufnGetLastOrderDate
(@CustomerId int)

RETURNS @OrderDate TABLE (OrderDate datetime)
AS
```

Answer Area

```
CREATE FUNCTION dbo.ufnGetLastOrderDate
(@CustomerId int)

RETURNS datetime AS

BEGIN

DECLARE @OrderDate datetime

SELECT @OrderDate = MAX(OrderDate) AS
OrderDate
FROM Sales
WHERE CustomerID = @CustomerID
RETURN @OrderDate
END
```

- * First function header
- * Then declare that the function returns a datetime
- * Thirdly begin the function body.
- * Fourthly declare the return variable
- * At last include the code that retrieves the required date.

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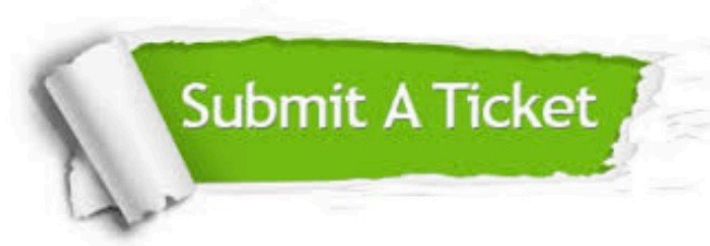
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