70-461 Q&As

Querying Microsoft SQL Server 2012/2014

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QUESTION 1

You have an application named Appl. You have a parameter named @Count that uses the int data type. App1 is configured to pass @Count to a stored procedure.

You need to create a stored procedure named usp_Customers for App1 that returns only the number of rows specified by the @Count parameter.

The solution must NOT use BEGIN, END, or DECLARE statements.

Part of the correct Transact-SQL statement has been provided in the answer area.

Correct Answer: Please review the part for this answer

CREATE PROCEDURE usp_Customers @Count int SELECT TOP(@Count) Customers.LastName FROM Customers ORDER BY Customers.LastName

QUESTION 2

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.

```
CREATE VIEW sales.uv_CustomerFullNames
AS SELECT
FirstName,
LastName
FROM Sales.Customers
```

```
SELECT 'SELECT' +
    STUFF ((
        SELECT ', [' + name + ']'
        FROM
        WHERE id = OBJECT_ID('Customers') AND
            name <> 'id'
        FOR
    ), 1, 1, '') +
'FROM [Customers]'
```

Keywords

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

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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 thefollowing 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 inthe 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 commawith 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

QUESTION 3

You are a database developer of a Microsoft SQL Server database.

The database contains a table named Instructor that has the following definition:

```
CREATE TABLE Instructor
(InstructorID int NOT NULL PRIMARY KEY,
InstructorName varchar(255) NOT NULL)
```

You are designing a new table named Course that has the following definition:

```
CREATE TABLE Course
(CourseID int NOT NULL PRIMARY KEY,
 InstructorID int NOT NULL,
CourseName varchar(255) NOT NULL,
CourseDescription varchar(MAX) NOT NULL)
```

You need to ensure that the InstructorId column in the Course table contains only values that exist in the InstructorID column of the Instructor table. Which Transact-SQL statement should you use?

A.
```
ALTER TABLE Course
ADD CONSTRAINT PK_Course_InstructorID PRIMARY KEY (InstructorID)
```

B.
```
ALTER TABLE Instructor
ADD CONSTRAINT FK_Instructor_InstructorID FOREIGN KEY (InstructorID)
REFERENCES Course (InstructorID)
```

C.
```
ALTER TABLE Course
ADD CONSTRAINT FK_Course_InstructorID FOREIGN KEY (InstructorID)
REFERENCES Instructor (InstructorID)
```

D.
```
ALTER TABLE Instructor
ADD CourseID int NOT NULL;
ALTER TABLE Instructor
ADD CONSTRAINT FK_Instructor_CourseID FOREIGN KEY (CourseID)
REFERENCES Course (CourseID);
```

E.
```
ALTER TABLE Course
ADD CONSTRAINT CK_Course_InstructorID
CHECK (InstructorID IN (SELECT InstructorID FROM Instructor))
```

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A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: C

References: http://msdn.microsoft.com/en-us/library/ms189049.aspx

QUESTION 4

You use Microsoft SQL Server 2012 to develop a database application. You need to create an object that meets the following requirements.

-Takes an input parameter.

-Returns a table of values.

-

Can be referenced within a view. Which object should you use?

A.

inline table-valued function

B.

user-defined data type

C.

stored procedure

D.

scalar-valued function

Correct Answer: A

Incorrect answers:

Not B: A user-defined data type would not be able to take an input parameter.

Not C: A stored procedure cannot be used within a view.

Not D: A scalar-valued would only be able to return a single simple value, not a table.

QUESTION 5

How can you support the SELECT clause of a query by using a nonclustered index that is already used for the WHERE clause?

A. You could use SELECT *.

B. You could modify the index that is already used to include the columns from the select list that are not part of the key.

C. You could add column aliases.

D. There is no way to support the SELECT clause with indexes.

Correct Answer: B

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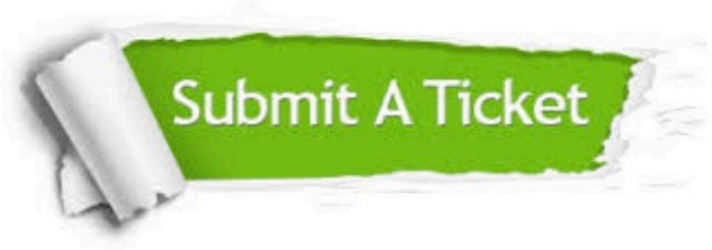

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