



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

Querying Microsoft SQL Server 2012/2014

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### QUESTION 1

Which of the following is applicable to a TRUNCATE statement? (Choose all that apply.)

- A. The statement writes more to the transaction log than DELETE.
- B. The statement resets an IDENTITY property.
- C. The statement is disallowed when a foreign key points to the target table.
- D. The statement is disallowed when an indexed view based on the target table exists.

Correct Answer: BCD

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### QUESTION 2

You work as a database administrator at ABC.com. You are developing a database that will be used by a web site analysis application name ABCWeb1.

The ABCWeb1 application must display the date and time each visitor visits a page on a website as well as the date and time they leave that web page. This data needs to be displayed in different date and time formats.

How would you accomplish this?

- A. You should make use of a scalar user-defined function.
- B. You should make use of the SET CONTEXT\_INFO statement in the stored procedure.
- C. You should make use of the DATETIMEOFFSET data type.
- D. You should make use of the FORMAT function.
- E. You should make use of the SET FORCEPLAN ON statement in the stored procedure.
- F. You should make use of a cursor.

Correct Answer: D

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### QUESTION 3

You use a Microsoft SQL Server database that contains a table. The table has records of web requests as shown in the exhibit. (Click the Exhibit button.)



## HttpRequest

 HttpRequestId  
RequestDateTime  
ClientIP  
ClientUsername  
ServerIP  
ServerPort  
HttpMethodId  
UriStem  
UriQuery  
ServerStatus  
ServerSubstatus  
ServerWin32Status  
BytesSent  
BytesReceived  
TimeTaken  
ClientVersion  
ClientHost  
ClientUserAgentId  
ClientId  
SessionId  
TimeSpent

WWW.PASSAPPLY.COM

Your network has three web servers that have the following IP addresses:

- 10.0.0.1
- 10.0.0.2
- 10.0.0.3

You need to create a query that displays the following information:

The number of requests for each web page (UriStem) grouped by the web server (ServerIP) that served the request

A column for each server

Which Transact-SQL query should you use?



```
A. SELECT
    UriStem,
    [10.0.0.1],
    [10.0.0.2],
    [10.0.0.3],
FROM
    (SELECT HttpRequestId, ServerIP, UriStem FROM HttpRequest) r
PIVOT (
    COUNT (r.HttpRequestId)
FOR r.ServerIP IN ([10.0.0.1], [10.0.0.2], [10.0.0.3])
) AS pvt
ORDER BY
    pvt.UriStem

B. SELECT
    UriStem,
    SUM(CASE WHEN ServerIP = '10.0.0.1' THEN 1 ELSE 0 END) AS
[10.0.0.1],
    SUM(CASE WHEN ServerIP = '10.0.0.2' THEN 1 ELSE 0 END) AS
[10.0.0.2],
    SUM(CASE WHEN ServerIP = '10.0.0.3' THEN 1 ELSE 0 END) AS
[10.0.0.3],
FROM
    HttpRequest
GROUP BY
    ServerIP
ORDER BY
    UriStem

C. SELECT
    UriStem,
    Server,
    Requests
FROM
    (SELECT HttpRequestId, ServerIP, UriStem FROM HttpRequest) r
UNPIVOT (
    Requests FOR Server IN ([ServerIP])
) AS pvt
ORDER BY
    Pvt.UriStem

D. DECLARE @Results TABLE (
    UriStem VARCHAR(255),
    [10.0.0.1] INT,
    [10.0.0.2] INT,
    [10.0.0.3] INT)

INSERT INTO @Results (UriStem, [10.0.0.1])
SELECT UriStem COUNT(HttpRequestId)
FROM HttpRequest
WHERE ServerIP = '10.0.0.1'

UPDATE @Results
SET [10.0.0.2] = COUNT(HttpRequestId)
FROM HttpRequest h INNER JOIN @Results r ON h.UriStem =
r.UriStem
WHERE ServerIP = '10.0.0.2'

UPDATE @Results
SET [10.0.0.3] = COUNT(HttpRequestId)
FROM HttpRequest h INNER JOIN @Results r ON h.UriStem =
r.UriStem
WHERE ServerIP = '10.0.0.3'

SELECT
    UriStem,
    [10.0.0.1] ,
    [10.0.0.2] ,
    [10.0.0.3]
FROM
    @Results
```



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

Correct Answer: A

PIVOT rotates a table-valued expression by turning the unique values from one column in the expression into multiple columns in the output, and performs aggregations where they are required on any remaining column values that are wanted in the final output.

References: <https://docs.microsoft.com/en-us/sql/t-sql/queries/from-using-pivot-and-unpivot?view=sql-server-2017>

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#### QUESTION 4

You work as a SQL Server 2012 database developer at ABC.com. You are developing a query for a database driven Web application that allows visitors to vote for the cricket player of the week. The number of votes is stored in a table named

WeeklyVotes that has columns named Week, PlayerName, Votes.

You need to write a Transact-SQL query that ranks the top 30 cricket players by the average votes over the last 12 months. You want the top 10 cricket players to have a rank of 1, the next 10 to have a rank of 2, and the last 10 to have a rank

of 3.

Which of the following SELECT statement would you use? To answer, type the correct code in the answer area.

- A. check the answer in explanation.

Correct Answer: A

```
SELECT TOP 30 PlayerName, NTILE (3) OVER (ORDER BY AVG (Votes) DESC) AS AveVotes FROM WeeklyVotes  
GROUP BY PlayerName
```

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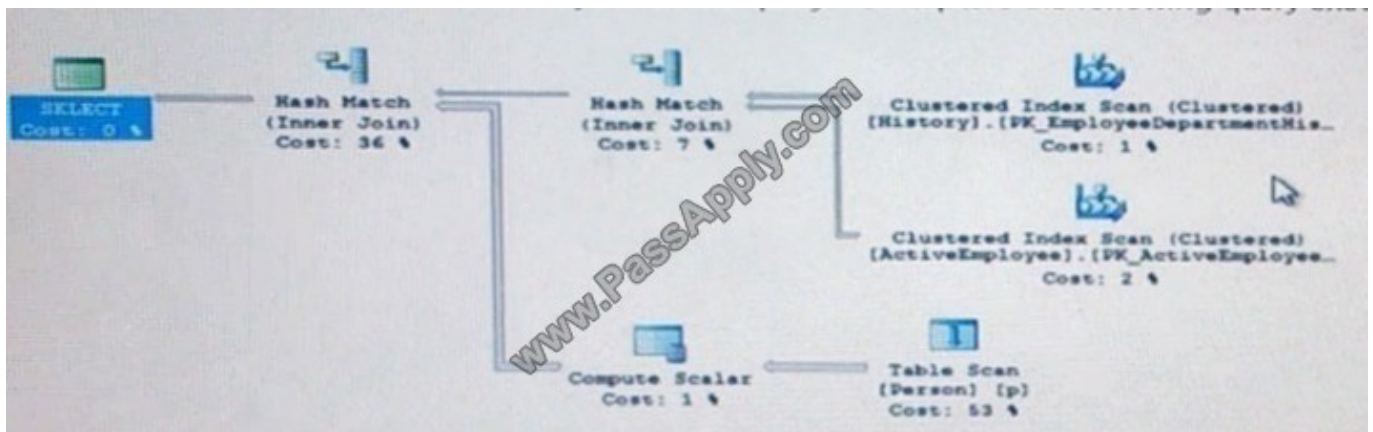
#### QUESTION 5

You are maintaining a Microsoft SQL Server database. You run the following query.



```
SELECT
  e.[ID]
  p.[Title],
  p.[GivenName] + ' ' + p.[SurName],
  e.[JobTitle],
  edh.[StartDate]
FROM [ActiveEmployee] e
INNER JOIN [Person] p ON p.[ID] = e.[ID]
INNER JOIN [History] edh ON e.[ID] = edh.[ID]
WHERE edh.EndDate IS NULL
```

You observe performance issues when you run the query. You capture the following query execution plan.



You need to ensure that the query performs returns the results as quickly as possible. Which action should you perform?

- A. Add a new index to the ID column of the Person table.
- B. Add a new index to the EndDate column of the History table.
- C. Create a materialized view that is based on joining data from the ActiveEmployee and History tables.
- D. Create a computed column that concatenates the GivenName and SurName columns.

Correct Answer: A

Cost is 53% for the Table Scan on the Person (p) table. This table scan is on the ID column, so we should put an index on it.





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