



70-761^{Q&As}

Querying Data with Transact-SQL

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QUESTION 1

DRAG DROP

You have a table named HR.Employees as shown in the exhibit. (Click the exhibit button.)

Employees (HR)	
empid	
lastname	
firstname	
title	
titleofcourtesy	
birthdate	
hiredate	
address	
city	
region	
postalcode	
country	
phone	
mgrid	

You need to write a query that will change the value of the job title column to Customer Representative for any employee who lives in Seattle and has a job title of Sales Representative. If the employee does not have a manager defined, you must not change the title.

Which three Transact-SQL segments should you use to develop the solution? To answer, move the appropriate Transact-SQL segments from the list of Transact-SQL segments to the answer area and arrange them in the correct order.

Select and Place:



Transact-SQL segments

```

SET title = 'Customer Representative'

WHERE title = 'Sales Representative'
AND city = 'Seattle' AND mgrid IS NOT
NULL

UPDATE HR.Employees

SET city = 'Seattle' and mgrid = NULL

INSERT INTO HR.Employees

VALUES ('Customer Representative')

WHERE title = 'Sales Representative'

DELETE FROM HR.Employees

```

Answer Area



Correct Answer:

Transact-SQL segments

```

SET city = 'Seattle' and mgrid = NULL

INSERT INTO HR.Employees

VALUES ('Customer Representative')

WHERE title = 'Sales Representative'

DELETE FROM HR.Employees

```

Answer Area

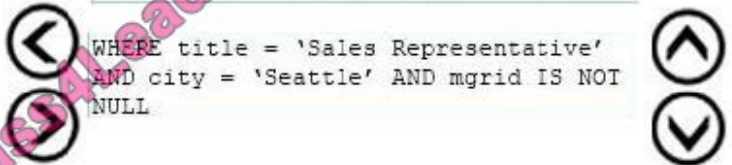
```

UPDATE HR.Employees

SET title = 'Customer Representative'

WHERE title = 'Sales Representative'
AND city = 'Seattle' AND mgrid IS NOT
NULL

```



References: <https://msdn.microsoft.com/en-us/library/ms177523.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 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 3

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 tracks orders and deliveries for customers in North America. The database contains the following tables:

Sales.Customer

Column	Data type	Notes
CustomerID	int	primary key
CustomerCategoryID	int	foreign key to the Sales.CustomerCategories table
PostalCityID	int	foreign key to the Application.Cities table
DeliveryCityID	int	foreign key to the Application.Cities table
AccountOpenedDate	datetime	does not allow new values
StandardDiscountPercentage	int	does not allow new values
CreditLimit	decimal(18,2)	null values are permitted
IsOnCreditHold	bit	does not allow new values
DeliveryLocation	geography	does not allow new values
PhoneNumber	nvarchar(20)	does not allow new values data is formatted as follows: 425-555-0187

Application.Cities

Column	Data type	Notes
CityID	int	primary key
LatestRecordedPopulation	bigint	null values are permitted

Sales.CustomerCategories

Column	Data type	Notes
CustomerCategoryID	int	primary key
CustomerCategoryName	nvarchar(50)	does not allow null values

The company's development team is designing a customer directory application. The application must list customers by the area code of their phone number. The area code is defined as the first three characters of the phone number.

The main page of the application will be based on an indexed view that contains the area and phone number for all customers.

You need to return the area code from the PhoneNumber field.

Solution: You run the following Transact-SQL statement:



```

CREATE FUNCTION AreaCode (
    @phoneNumber nvarchar(20)
)
RETURNS nvarchar(10)
WITH SCHEMABINDING
AS
BEGIN
    DECLARE @areaCode nvarchar(max)
    SELECT @areaCode = value FROM STRING_SPLIT(@phoneNumber, '-')
    RETURN @areaCode
END

```

Does the solution meet the goal?

- A. Yes
- B. No

Correct Answer: B

We need SELECT TOP 1 @areacode =.. to ensure that only one value is returned.

QUESTION 4

You have a database that stores information about server and application errors. The database contains the following table: Servers

Column	Data type	Notes
ServerID	int	This is the primary key for the table.
DNS	Nvarchar(100)	Null values are not permitted for this column.

Errors

Column	Data type	Notes
ErrorID	int	This is the primary key for the table.
ServerID	int	Null values are not permitted for this column. This column is a foreign key that is related for the ServerID column in the Servers table.
Occurrences	int	Null values are not permitted for this column.
LogMessage	nvarchar(max)	Null values are not permitted for this column.

You need to return all unique error log messages and the server where the error occurs most often. Which Transact-SQL statement should you run?



```
SELECT DISTINCT ServerID, LogMessage FROM Errors AS e1
WHERE LogMessage IN (
    SELECT TOP 1 e2.LogMessage FROM Errors AS e2
    WHERE e2.LogMessage = e1.LogMessage AND e2.ServerID <> e1.ServerID
    ORDER BY e2.Occurrences
)
```

- A.
- ```
SELECT DISTINCT ServerID, LogMessage FROM Errors AS e1
WHERE LogMessage IN (
 SELECT TOP 1 e2.LogMessage FROM Errors AS e2
 WHERE e2.LogMessage = e1.LogMessage AND e2.ServerID <> e1.ServerID
 ORDER BY e2.Occurrences
)
```
- B.
- ```
SELECT DISTINCT ServerID, LogMessage FROM Errors AS e1
WHERE Occurrences > ALL (
    SELECT e2.LogMessage FROM Errors AS e2
    WHERE e2.LogMessage = e1.LogMessage AND e2.ServerID <> e1.ServerID
)
```
- C.
- ```
SELECT DISTINCT ServerID, LogMessage FROM Errors AS e1
GROUP BY ServerID, LogMessage
HAVING MAX(Occurrences) = 1
```
- D.
- ```
SELECT ServerID, LogMessage FROM Errors AS e1
GROUP BY ServerID, LogMessage, Occurrences
HAVING COUNT(*) = 1
ORDER BY Occurrences
```

A. B. C. D.

Correct Answer: A

QUESTION 5

You have a database named MyDb. You run the following Transact-SQL statements:



```
CREATE TABLE tblRoles (  
    RoleId int NOT NULL IDENTITY(1,1) PRIMARY KEY CLUSTERED,  
    RoleName varchar(20) NOT NULL  
)  
CREATE TABLE tblUsers (  
    UserId int NOT NULL IDENTITY(10000,1) PRIMARY KEY CLUSTERED,  
    Username varchar(20) UNIQUE NOT NULL,  
    RoleId int NULL FOREIGN KEY REFERENCES tblRoles(RoleId),  
    IsActive bit NOT NULL DEFAULT(1)  
)
```

A value of 1 in the IsActive column indicates that a user is active.

You need to create a count for active users in each role. If a role has no active users. You must display a zero as the active users count.

Which Transact-SQL statement should you run?

- A. `SELECT R.RoleName, COUNT(U.UserId) AS ActiveUserCount FROM tblRoles R
LEFT JOIN (SELECT UserId, RoleId FROM tblUsers WHERE IsActive = 1) U ON U.RoleId = R.RoleId
GROUP BY R.RoleId, R.RoleName`
- B. `SELECT R.RoleName, U.ActiveUserCount FROM tblRoles R
INNER JOIN (SELECT RoleId, COUNT(*) AS ActiveUserCount FROM tblUsers WHERE IsActive = 1
GROUP BY RoleId) U ON R.RoleId = U.RoleId`
- C. `SELECT R.RoleName, COUNT(*) AS ActiveUserCount FROM tblRoles R
LEFT JOIN (SELECT UserId, RoleId FROM tblUsers WHERE IsActive = 1) U ON U.RoleId = R.RoleId
GROUP BY R.RoleId, R.RoleName`
- D. `SELECT R.RoleName, U.ActiveUserCount FROM tblRoles R CROSS JOIN
(SELECT COUNT(*) AS ActiveUserCount FROM tblUsers WHERE IsActive = 1) U`

A. B. C. D.

Correct Answer: C

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