

> Vendor: Microsoft

> Exam Code: 70-761

> Exam Name: Querying Data with Transact-SQL

Question 41 – Question 50

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QUESTION 41

You have a database that stored information about servers and application errors. The database contains the following tables.

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



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

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

Answer: C

QUESTION 42

Drag and Drop Question

You have a database that stored information about servers and application errors. The database contains the following tables.

Servers:

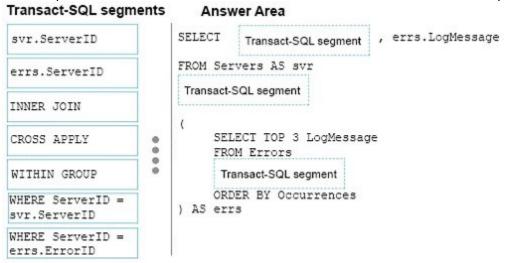
| Column | Data type | Notes |
|----------|---------------|--|
| ServerID | int | This is the primary key for the table. |
| DNS | nvarchar(100) | Null values are not permitted for this column. |

Errors:

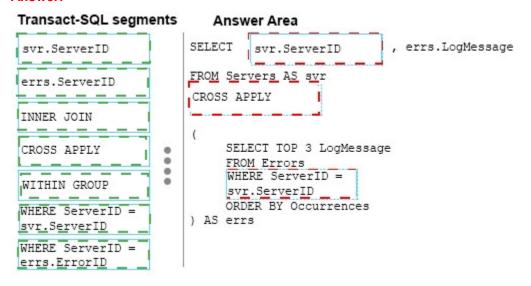
| Column | Data type | Notes |
|-------------|---------------|---|
| ErrorID | int | This is the primary key for the table. |
| ServerID | int | Null values are not permitted for this column. This column is a foreign key that is related to the ServerID column in the Servers table. |
| Occurrences | int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



You are building a webpage that shows the three most common errors for each server. You need to return the data for the webpage. How should you complete the Transact-SQL statement? To answer, drag the appropriate Transact-SQL segments to the correct location. Each Transact-SQL segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content. NOTE: Each correct selection is worth one point.



Answer:



QUESTION 43

You have a table named Cities that has the following two columns: CityID and CityName. The CityID column uses the int data type, and CityName uses nvarchar(max). You have a table named RawSurvey. Each row includes an identifier for a question and the number of persons that responded to that question from each of four cities. The table contains the following representative data:



| QuestionID | Tokyo | Boston | London | New York |
|------------|-------|--------|--------|----------|
| Q1 | 1 | 42 | 48 | 51 |
| Q2 | 22 | 39 | 58 | 42 |
| Q3 | 29 | 41 | 61 | 33 |
| Q4 | 62 | 70 | 60 | 50 |
| Q5 | 63 | 31 | 41 | 21 |
| Q6 | 32 | 1 | 16 | 34 |

A reporting table named SurveyReport has the following columns: CityID, QuestionID, and RawCount, where RawCount is the value from the RawSurvey table. You need to write a Transact-SQL query to meet the following requirements:

- Retrieve data from the RawSurvey table in the format of the SurveyReport table.
- The CityID must contain the CityID of the city that was surveyed.
- The order of cities in all SELECT queries must match the order in the ${\tt RawSurvey}$ table.
- The order of cities in all IN statements must match the order in the RawSurvey table.

Construct the query using the following guidelines:

- Use one-part names to reference tables and columns, except where not possible.
- ALL SELECT statements must specify columns.
- Do not use column or table aliases, except those provided.
- Do not surround object names with square brackets.



Keywords

ADD EXIT EXTERNAL EXIT PUBLIC ALL PROCEDURE FETCH ALTER
AND
FILE
RAISERROR
ANY
FILEFACTOR
READ
AS
FORFOREIGN
READTEXT
ASC
FREETEXT
RECONFIGURE
AUTHORIZATION
FREETEXTTABLE
REFERENCES
BACKUP
FROM
REPLICATION
BEGIN
FULL
RESTORE
BETWEEN
FUNCTION
RESTRICT
REFAK
GOTO
RETURN
PEVERT ALTER BROWSE GRANT REVERT
BULK GROUP REVOKE
BY HAVING RIGHT
CASCADE HOLDLOCK ROLLBACK
CASE IDENTITY ROWCOUNT
CHECK IDENTITY TAGEBY GOTO GRANT GROUP CHECK IDENTITY_INSERT ROWGUIDCOL
CHECKPOINT IDENTITYCOL RULE IF SAVE IF SAVE
IN SCHEMA
INDEX SECURITYAUDIT
INNER SELECT
INSERT SEMANTICKEYPHRASETABLE
INTERSECT SEMANTICSIMILARITYDETAILSTABLE
INTO SEMANTICSIMILARITYTABLE CLUSTERED COALESCE

COLLATE

COLUMN

COMMIT

SESSION USER

COMPUTE INTO

COMPUTE INTO SEMANTICS
CONCAT IS SESSION_U
CONSTRAINT JOIN SET
CONTAINS KEY SETUSER
CONTAINSTABLE KILL SHUTDOWN
CONTINUE LEFT SOME
CONVERT LIKE STATISTIC
CREATE LINENO SYSTEM_US
CROSS LOAD TABLE
CURRENT MERGE TABLESAMP
CURRENT_TIME NATIONAL TEXTSIZE
CURRENT_TIME
CURRENT_TIME NOCHECK THEN
CURRENT_USER NOT TOP STATISTICS SYSTEM_USER TABLE

TABLESAMPLE

CURRENT_TIMESTAMP NONCLUSTERED TO
CURSOR NULL TRAN
DATABASE NULLIF TRANSACTION
DBCC OF TRIGGER
DEALLOCATE OFF TRUNCATE
DECLARE OFFSETS TRY_CONVERT
DEFAULT ON TSEQUAL
DELETE OPEN UNION
DENY OPENDATASOURCE UNIQUE
DESC OPENQUERY UNPIVOT
DISK OPENROWSET UPDATE
DISTRIBUTED OPTION USE
DOUBLE OR USER
DROP OPENDATION VALUES

OR DROP ORDER VALUES DUMP OUTER VARYING ELSE VIEW OVER WAITFOR PERCENT ERRLVL WHEN PIVOT ESCAPE PLAN WHERE ESCEPT PRECISION PRIMARY WHILE EXEC WITH EXECUTE

WITHIN GROUP PRINT EXISTS WRITETEXT



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 CityID, QuestionID, RawCount
2 AS t1
3 AS t2
4 JOIN
```

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

Answer: UNPIVOT Explanation:

UNPIVOT must be used to rotate columns of the Rawsurvey table into column values. References: https://technet.microsoft.com/en-us/library/ms177410(v=sql.105).aspx

QUESTION 44

B. Option B

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 tbRoles(RoleId),
    IsActive bit NOT NULL DEFAULT(1)
)
```

A value of 1 in the Is Active 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. Option A
```

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C. Option CD. Option D

Answer: C

QUESTION 45

Drag and Drop Question

You create three tables by running 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(1,1) PRIMARY KEY CLUSTERED,
    UserName varchar(20) UNIQUE NOT NULL,
    IsActive bit NOT NULL DEFAULT(1)
)

CREATE TABLE tblUsersInRoles (
    UserId int NOT NULL FOREIGN KEY REFERENCES tblUsers(UserId),
    RoleId int NOT NULL FOREIGN KEY REFERENCES tblRoles(RolesId)
)
```

For reporting purposes, you need to find the active user count for each role, and the total active user count. The result must be ordered by active user count of each role. You must use common table expressions (CTEs). Which four 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.



Transact-SQL segments

```
Total AS (
     SELECT COUNT(*) AS TotalCountInAllRoles
     FROM ActiveUsers
SELECT S.*, Total.TotalCountInAllRoles
FROM RoleSummary S, Total
ORDER BY S.ActiveUserCount
WITH ActiveUsers AS (
     SELECT UserId
     FROM tblUsers
     WHERE IsActive=1
RoleNCount AS (
     SELECT RoleId, COUNT(*) AS ActiveUser-
     FROM tblUsersInRoles BRG
     INNER JOIN ActiveUsers U ON BRG.UserId =
    GROUP BY BRG.RoleId
Total AS (
     SELECT COUNT(*) AS TotalCountInAllRoles
     FROM ActiveUsers
SELECT S.*, Total.TotalCountInAllRoles
FROM RoleSummary S, Total
RoleSummary AS (
     SELECT R.RoleName, ISNULL
(S.ActiveUserCount, 0) AS ActiveUserCount
     FROM tblRoles R
     LEFT JOIN RoleNCount S ON R.RoleId =
S.RoleId
     ORDER BY S.ActiveUserCount
RoleSummary AS (
     SELECT R.RoleName, ISNULL
(S.ActiveUserCount, 0) AS ActiveUserCount
    FROM tblRoles R
    LEFT JOIN RoleNCount S ON R.RoleId =
S.RoleId
```

Answer Area





Answer:



Answer Area

RoleNCount AS

S.RoleId

Transact-SQL segments

```
Total AS (
    SELECT COUNT(*) AS TotalCountInAllRoles
    FROM ActiveUsers
SELECT S.*, Total.TotalCountInAllRoles
FROM RoleSummary S, Total
ORDER BY S.ActiveUserCount
WITH ActiveUsers AS (
    SELECT UserId
    FROM tblUsers
    WHERE IsActive=1
RoleNCount AS (
    SELECT RoleId, COUNT(*) AS ActiveUser-
    FROM tblUsersInRoles BRG
    INNER JOIN ActiveUsers U ON BRG.UserId =
    GROUP BY BRG.RoleId
Total AS (
    SELECT COUNT(*) AS TotalCountInAllRoles
    FROM ActiveUsers
SELECT S.*, Total.TotalCountInAllRoles
FROM RoleSummary S, Total
RoleSummary AS (
    SELECT R.RoleName, ISNULL
(S.ActiveUserCount, 0) AS ActiveUserCount
    FROM tblRoles R
    LEFT JOIN RoleNCount S ON R.RoleId =
S.RoleId
    ORDER BY S.ActiveUserCount
RoleSummary AS (
    SELECT R.RoleName, ISNULL
(S.ActiveUserCount, 0) AS ActiveUserCount
    FROM tblRoles R
    LEFT JOIN RoleNCount S ON R.RoleId =
S.RoleId
    ______
```

SELECT RoleId, COUNT(*) AS ActiveUserCount FROM tblUsersInRoles BRG INNER JOIN ActiveUsers U ON BRG.UserId = U.UserId GROUP BY BRG.RoleId), WITH ActiveUsers AS (SELECT UserId FROM tblUsers WHERE IsActive=1), RoleSummary AS (SELECT R.RoleName, ISNULL (S.ActiveUserCount FROM tblRoles R LEFT JOIN RoleNCount S ON R.RoleId =

ORDER BY S.ActiveUserCount
Total AS (
SELECT COUNT(*) AS TotalCountInAllRoles
FROM ActiveUsers

SELECT S.*, Total.TotalCountInAllRoles FROM RoleSummary S, Total ORDER BY S.ActiveUserCount



QUESTION 46

Note: This question is part of a series of questions that use the same or similar answer choices. An answer choice may be correct for more than one question in the series. Each question is independent of the other questions in this series. Information and details provided in a question apply only to that question.

You have a database that contains tables named Customer_CRMSystem and Customer_HRSystem. Both tables use the following structure:

| Column name | Data type | Allow null |
|--------------|-------------|------------|
| CustomerID | int | No |
| CustomerCode | char(4) | Yes |
| CustomerName | varchar(50) | No |

The tables include the following records: Customer_CRMSystem:



| CustomerID | CustomerCode | CustomerName |
|------------|--------------|--------------|
| 1 | CUS1 | Roya |
| 2 | CUS9 | Almudena |
| 3 | CUS4 | Jack |
| 4 | NULL | Jane |
| 5 | NULL | Francisco |

Customer HRSystem:

| CustomerID | CustomerCode | CustomerName |
|------------|--------------|--------------|
| 1 | CUS1 | Roya |
| 2 | CUS2 | Jose |
| 3 | CUS9 | Almudena |
| 4 | NULL | Jane |

Records that contain null values for CustomerCode can be uniquely identified by CustomerName. You need to display a list of customers that do not appear in the Customer_HRSystem table. Which Transact-SQL statement should you run?

```
A SELECT c.CustomerCode, c.CustomerName, h.CustomerCode, h.CustomerName
FROM Customer_CRMSystem c
INNER JOIN Customer_HRSystem h
ON c.CustomerCode = h.CustomerCode AND c.CustomerName = h.CustomerName
```

- B SELECT CustomerCode, CustomerName FROM Customer_CRMSystem INTERSECT SELECT CustomerCode, CustomerName FROM Customer_HRSystem
- C SELECT c.CustomerCode, c.CustomerName
 FROM Customer_CRMSystem c
 LEFT OUTER JOIN Customer_HRSystem h
 ON c.CustomerCode = h.CustomerCode
 WHERE h.CustomerCode IS NULL AND c.CustomerCode IS NOT NULL
- D SELECT CustomerCode, CustomerName FROM Customer_CRMSystem EXCEPT SELECT CustomerCode, CustomerName FROM Customer_HRSystem
- E SELECT CustomerCode, CustomerName FROM Customer_CRMSystem UNION SELECT CustomerCode, CustomerName FROM Customer_HRSystem



- F SELECT CustomerCode, CustomerName FROM Customer_CRMSystem UNION ALL SELECT CustomerCode, CustomerName FROM Customer HRSystem
- G SELECT c.CustomerCode, c.CustomerName, h.CustomerCode, h.CustomerName FROM Customer_CRMSystem c CROSS JOIN Customer_HRSystem h
- H SELECT c.CustomerCode, c.CustomerName, h.CustomerCode, h.CustomerName FROM Customer_CRMSystem c FULL OUTER JOIN Customer_HRSystem h ON c.CustomerCode = h.CustomerCode AND c.CustomerName = h.CustomerName
- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E
- F. Option F
- G. Option G
- H. Option H

Answer: D Explanation:

EXCEPT returns distinct rows from the left input query that aren't output by the right input query. References: https://msdn.microsoft.com/en-us/library/ms188055.aspx

QUESTION 47

Note: This question is part of a series of questions that use the same or similar answer choices. An answer choice may be correct for more than one question in the series. Each question is independent of the other questions in this series. Information and details provided in a question apply only to that question.

You have a database that contains tables named Customer_CRMSystem and Customer_HRSystem. Both tables use the following structure:

| Column name | Data type | Allow null |
|--------------|-------------|------------|
| CustomerID | int | No |
| CustomerCode | char(4) | Yes |
| CustomerName | varchar(50) | No |

The tables include the following records:

Customer_ CRMSystem:



| CustomerID | CustomerCode | CustomerName |
|------------|--------------|--------------|
| 1 | CUS1 | Roya |
| 2 | CUS9 | Almudena |
| 3 | CUS4 | Jack |
| 4 | NULL | Jane |
| 5 | NULL | Francisco |

Customer_ HRSystem:

| CustomerID | CustomerCode | CustomerName |
|------------|--------------|--------------|
| 1 | CUS1 | Roya |
| 2 | CUS2 | Jose |
| 3 | CUS9 | Almudena |
| 4 | NULL | Jane |

Records that contain null values for CustomerCode can be uniquely identified by Customer Name. You need to display customers who appear in both tables and have a proper CustomerCode. Which Transact-SQL statement should you run?

```
A SELECT c.CustomerCode, c.CustomerName, h.CustomerCode, h.CustomerName
FROM Customer_CRMSystem c
INNER JOIN Customer_HRSystem h
ON c.CustomerCode = h.CustomerCode AND c.CustomerName = h.CustomerName
```

B SELECT CustomerCode, CustomerName FROM Customer_CRMSystem INTERSECT SELECT CustomerCode, CustomerName FROM Customer HRSystem

C SELECT c.CustomerCode, c.CustomerName FROM Customer_CRMSystem c LEFT OUTER JOIN Customer_HRSystem h ON c.CustomerCode = h.CustomerCode WHERE h.CustomerCode IS NULL AND c.CustomerCode IS NOT NULL

D SELECT CustomerCode, CustomerName FROM Customer_CRMSystem EXCEPT SELECT CustomerCode, CustomerName FROM Customer_HRSystem

E SELECT c.CustomerCode, c.CustomerName, h.CustomerCode, h.CustomerName FROM Customer_CRMSystem c FULL OUTER JOIN Customer_HRSystem h ON c.CustomerCode = h.CustomerCode AND c.CustomerName = h.CustomerName

A. Option A

- B. Option B
- C. Option C
- D. Option D
- E. Option E

Answer: A **Explanation:**

When there are null values in the columns of the tables being joined, the null values do not match each other. The presence of null values in a column from one of the tables being joined can be returned only by using an outer join (unless the WHERE clause excludes null values).

References: https://technet.microsoft.com/en-us/library/ms190409(v=sql.105).aspx

QUESTION 48

Note: This question is part of a series of questions that use the same or similar answer choices. An answer choice may be correct for more than one question in the series. Each question is independent of the other questions in this series. Information and details provided in a question apply only to that question.

You have a database that contains tables named Customer_CRMSystem and Customer_HRSystem. Both tables use the following structure:

| Column name | Data type | Allow null |
|--------------|-------------|------------|
| CustomerID | int | No |
| CustomerCode | char(4) | Yes |
| CustomerName | varchar(50) | No |

The tables include the following records:

Customer CRMSystem:

| CustomerID | CustomerCode | CustomerName Roya | |
|------------|--------------|----------------------|--|
| 1 | CUS1 | | |
| 2 | CUS9 | Almudena | |
| 3 | CUS4 | Jack | |
| 4 | NULL | Jane | |
| 5 NULL | | Francisco | |

Customer HRSystem:

| CustomerID | CustomerCode | CustomerName | |
|------------|--------------|--------------|--|
| 1 | CUS1 | Roya | |
| 2 | CUS2 | Jose | |
| 3 | CUS9 | Almudena | |
| 4 | NULL | Jane | |

Records that contain null values for CustomerCode can be uniquely identified by Customer Name. You need to display a Cartesian product, combining both tables. Which Transact-SQL statement should you run?



- A SELECT c.CustomerCode, c.CustomerName, h.CustomerCode, h.CustomerName FROM Customer_CRMSystem c INNER JOIN Customer_HRSystem h ON c.CustomerCode = h.CustomerCode AND c.CustomerName = h.CustomerName
- B SELECT CustomerCode, CustomerName FROM Customer_CRMSystem INTERSECT SELECT CustomerCode, CustomerName FROM Customer HRSystem
- C SELECT c.CustomerCode, c.CustomerName FROM Customer_CRMSystem c LEFT OUTER JOIN Customer_HRSystem h ON c.CustomerCode = h.CustomerCode WHERE h.CustomerCode IS NULL AND c.CustomerCode IS NOT NULL
- D SELECT CustomerCode, CustomerName FROM Customer_CRMSystem EXCEPT SELECT CustomerCode, CustomerName FROM Customer HRSystem
- E SELECT CustomerCode, CustomerName FROM Customer_CRMSystem UNION SELECT CustomerCode, CustomerName FROM Customer_HRSystem
- F SELECT CustomerCode, CustomerName FROM Customer_CRMSystem UNION ALL SELECT CustomerCode, CustomerName FROM Customer_HRSystem
- G SELECT c.CustomerCode, c.CustomerName, h.CustomerCode, h.CustomerName FROM Customer_CRMSystem c CROSS JOIN Customer_HRSystem h
- H SELECT c.CustomerCode, c.CustomerName, h.CustomerCode, h.CustomerName FROM Customer_CRMSystem c FULL OUTER JOIN Customer_HRSystem h ON c.CustomerCode = h.CustomerCode AND c.CustomerName = h.CustomerName
- A. Option A
- B. Option B

- C. Option C
- D. Option D
- E. Option E
- F. Option F
- G. Option G
- H. Option H

Answer: G **Explanation:**

A cross join that does not have a WHERE clause produces the Cartesian product of the tables involved in the join. The size of a Cartesian product result set is the number of rows in the first table multiplied by the number of rows in the second table.

References: https://technet.microsoft.com/en-us/library/ms190690(v=sql.105).aspx

QUESTION 49

Note: This question is part of a series of questions that use the same or similar answer choices. An answer choice may be correct for more than one question in the series. Each question is independent of the other questions in this series. Information and details provided in a question apply only to that question.

You have a database that contains tables named Customer_CRMSystem and Customer_HRSystem. Both tables use the following structure:

| Column name | Data type | Allow null |
|--------------|-------------|------------|
| CustomerID | int | No |
| CustomerCode | char(4) | Yes |
| CustomerName | varchar(50) | No |

The tables include the following records:

Customer CRMSvstem:

| CustomerID | CustomerCode | CustomerName | |
|------------|--------------|--------------|--|
| 1 | CUS1 | Roya | |
| 2 | CUS9 | Almudena | |
| 3 | CUS4 | Jack | |
| 4 | NULL | Jane | |
| 5 | NULL | Francisco | |

Customer HRSystem:

| CustomerID | CustomerCode | CustomerName | |
|------------|--------------|--------------|--|
| 1 | CUS1 | Roya | |
| 2 | CUS2 | Jose | |
| 3 | CUS9 | Almudena | |
| 4 NULL | | Jane | |

Records that contain null values for CustomerCode can be uniquely identified by Customer Name. You need to create a list of all unique customers that appear in either table. Which Transact-SQL statement should you run?



- A SELECT c.CustomerCode, c.CustomerName, h.CustomerCode, h.CustomerName FROM Customer_CRMSystem c INNER JOIN Customer_HRSystem h ON c.CustomerCode = h.CustomerCode AND c.CustomerName = h.CustomerName
- B SELECT CustomerCode, CustomerName FROM Customer_CRMSystem INTERSECT SELECT CustomerCode, CustomerName FROM Customer_HRSystem
- C SELECT c.CustomerCode, c.CustomerName
 FROM Customer_CRMSystem c
 LEFT OUTER JOIN Customer_HRSystem h
 ON c.CustomerCode = h.CustomerCode
 WHERE h.CustomerCode IS NULL AND c.CustomerCode IS NOT NULL
- D SELECT CustomerCode, CustomerName FROM Customer_CRMSystem EXCEPT SELECT CustomerCode, CustomerName FROM Customer_HRSystem
- E SELECT CustomerCode, CustomerName FROM Customer_CRMSystem UNION SELECT CustomerCode, CustomerName FROM Customer HRSystem
- F SELECT CustomerCode, CustomerName FROM Customer_CRMSystem UNION ALL SELECT CustomerCode, CustomerName FROM Customer_HRSystem
- G SELECT c.CustomerCode, c.CustomerName, h.CustomerCode, h.CustomerName FROM Customer_CRMSystem c CROSS JOIN Customer_HRSystem h
- H SELECT c.CustomerCode, c.CustomerName, h.CustomerCode, h.CustomerName FROM Customer_CRMSystem c FULL OUTER JOIN Customer_HRSystem h ON c.CustomerCode = h.CustomerCode AND c.CustomerName = h.CustomerName

A. Option A

- B. Option B
- C. Option C
- D. Option D
- E. Option E
- F. Option F
- G. Option G
- H. Option H

Answer: E Explanation:

UNION combines the results of two or more queries into a single result set that includes all the rows that belong to all queries in the union. The UNION operation is different from using joins that combine columns from two tables.

QUESTION 50

Note: This question is part of a series of questions that use the same scenario. For your convenience, the scenario is repeated in each question. Each question presents a different goal and answer choices, but the text of the scenario is exactly the same in each question in this series.

Drag and Drop Question

You are developing a database to track customer orders. The database contains the following tables: Sales.Customers, Sales.Orders, and Sales.OrderLines. The following table describes the columns in Sales.Customers.

| Column name | Data type | Constraints |
|----------------------------|---------------|----------------------------|
| CustomerID | int | primary key |
| CustomerName | nvarchar(100) | does not allow null values |
| PhoneNumber | nvarchar(20) | does not allow null values |
| AccountOpenedDate | date | does not allow null values |
| StandardDiscountPercentage | decimal(18,3) | does not allow null values |
| CreditLimit | decimal(18,2) | null values are permitted |
| IsOnCreditHold | bit | does not allow null values |
| DeliveryLocation | geography | does not allow null values |
| PhoneNumber | nvarchar(20) | does not allow null values |

The following table describes the columns in Sales.Orders:

| Column name | Data type | Constraints |
|-------------|-----------|---|
| OrderID | int | primary key |
| CustomerID | int | foreign key to the Sales. Customers table |
| OrderDate | date | does not allow null values |

The following table describes the columns in Sales.OrderLines:

| Column name | Data type | Constraints |
|-------------|---------------|---------------------------------------|
| OrderLineID | int | primary key |
| OrderID | int | foreign key to the Sales.Orders table |
| Quantity | int | does not allow null values |
| UnitPrice | decimal(18,2) | null values are permitted |
| TaxRate | decimal(18,3) | does not allow null values |

You need to create a function that accepts a CustomerID as a parameter and returns the following information:



- all customer information for the customer
- the total number of orders for the customer
- the total price of all orders for the customer
- the average quantity of items per order

How should you complete the function definition? To answer, drag the appropriate TransactSQL segment to the correct locations. Transact-SQL segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

Transact-SQL segments

Answer Area

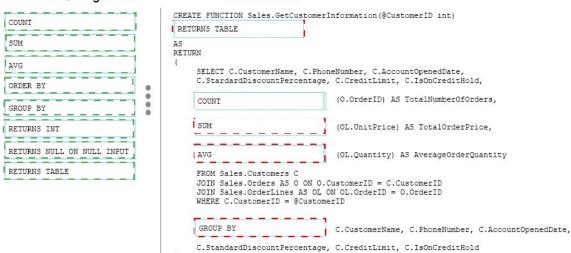
| COUNT | | CREATE FUNCTION Sales.GetCustome Transact-SQL segment | |
|----------------------------|---|---|---|
| SUM | | AS RETURN | |
| AVG | | (SELECT C.CustomerName, C.Ph | oneNumber, C.AccountOpenedDate, |
| ORDER BY | 0 | C.StardardDiscountPercentag | e, C.CreditLimit, C.IsOnCreditHold, |
| GROUP BY | 0 | Transact-SQL segment | (O.OrderID) AS TotalNumberOfOrders, |
| RETURNS INT | | Transact-SQL segment | (OL.UnitPrice) AS TotalOrderPrice, |
| RETURNS NULL ON NULL INPUT | | Transact-SQL segment | (OL.Quantity) AS AverageOrderQuantity |
| RETURNS TABLE | | FROM Sales.Customers C | |
| | | JOIN Sales.Orders AS O ON O JOIN Sales.OrderLines AS OL WHERE C.CustomerID = @Custo | ON OL.OrderID = O.OrderID |
| | | Transact-SQL segment | C.CustomerName, C.PhoneNumber, C.AccountOpenedDat |

C.StandardDiscountPercentage, C.CreditLimit, C.IsOnCreditHold

Answer:

Transact-SQL segments

Answer Area



Explanation:

Box1: RETURNS TABLE

The function should return the following information:

- all customer information for the customer
- the total number of orders for the customer
- the total price of all orders for the customer
- the average quantity of items per order

Box 2: COUNT

The function should return the total number of orders for the customer.



Box 3: SUM

The function should return the total price of all orders for the customer.

Box 3. AVG

The function should return the average quantity of items per order.

Box 4: GROUP BY

Need to use GROUP BY for the aggregate functions.

References: https://msdn.microsoft.com/en-us/library/ms186755.aspx

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