



70-761^{Q&As}

Querying Data with Transact-SQL

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**QUESTION 1**

You have a database that contains the following tables:



You need to write a query that returns a list of all customers who have not placed orders. Which Transact-SQL statement should you run?

- A. `SELECT c.custid FROM Sales.Customers c INNER JOIN Sales.Order o ON c.custid = o.custid`
- B. `SELECT custid FROM Sales.Customers INTERSECT SELECT custid FROM Sales.Orders`
- C. `SELECT c.custid FROM Sales.Customers c LEFT OUTER JOIN Sales.Order o ON c.custid = o.custid`
- D. `SELECT c.custid FROM Sales.Customers c LEFT OUTER JOIN Sales.Order o ON c.custid = o.custid WHERE orderid IS NULL`
- E. `SELECT custid FROM Sales.Customers UNION ALL SELECT custid FROM Sales.Orders`
- F. `SELECT custid FROM Sales.Customers UNION SELECT custid FROM Sales.Orders`
- G. `SELECT c.custid FROM Sales.Customers c RIGHT OUTER JOIN Sales.Orders o ON c.custid = o.custid`

Correct Answer: D

Inner joins return rows only when there is at least one row from both tables that matches the join condition. Inner joins eliminate the rows that do not match with a row from the other table. Outer joins, however, return all rows from at least



one of the tables or views mentioned in the FROM clause, as long as those rows meet any WHERE or HAVING search conditions. All rows are retrieved from the left table referenced with a left outer join, and all rows from the right table referenced in a right outer join. All rows from both tables are returned in a full outer join.

References: [https://technet.microsoft.com/en-us/library/ms187518\(v=sql.105\).aspx](https://technet.microsoft.com/en-us/library/ms187518(v=sql.105).aspx)

QUESTION 2

DRAG DROP

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 on this series.

You have a database that tracks orders and deliveries for customers in North America. System versioning is enabled for all tables. The database contains the Sales.Customers, Application.Cities, and Sales.CustomerCategories tables.

Details for the Sales.Customers table are shown in the following table:

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 values
StandardDiscountPercentage	int	does not allow values
CreditLimit	decimal(18,2)	null values are permitted
IsOnCreditHold	bit	does not allow values
DeliveryLocation	geography	does not allow values
PhoneNumber	nvarchar(20)	does not allow values
ValidFrom	datetime2(7)	does not allow values, GENERATED ALWAYS AS ROW START
ValidTo	datetime2(7)	does not allow values, GENERATED ALWAYS AS ROW END

Details for the Application.Cities table are shown in the following table:

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

Details for the Sales.CustomerCategories table are shown in the following table:



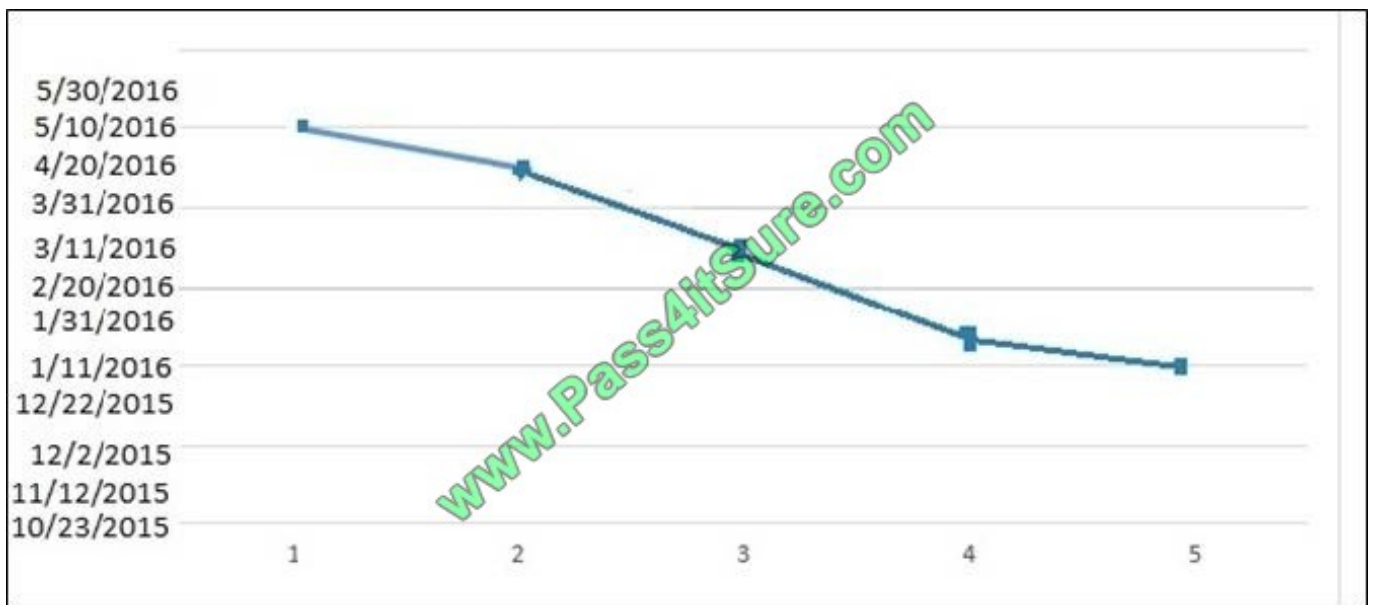
Column	Data type	Notes
CustomerCategoryID	int	primary key
CustomerCategoryName	nvarchar(50)	does not allow null values

You are creating a report to show when the first customer account was opened in each city. The report contains a line chart with the following characteristics:

The chart contains a data point for each city, with lines connecting the points.

The X axis contains the position that the city occupies relative to other cities.

The Y axis contains the date that the first account in any city was opened. An example chart is shown below for five cities:



During a sales promotion, customers from various cities open new accounts on the same date. You need to write a query that returns the data for the chart.

How should you complete the Transact-SQL statement? To answer, drag the appropriate Transact-SQL segments to the correct locations. 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.

Select and Place:



Transact-SQL segments

-
-
-
-
-
-
-
-

Answer Area

```

SELECT
  CityID,
  MIN(AccountOpenedDate),
  
  
FROM Application.Cities
INNER JOIN Sales.Customers ON CityID = PostalCityID
  
ORDER BY MIN(AccountOpenedDate) DESC

```

Correct Answer:

Transact-SQL segments

-
-
-
-
-
-
-
-

Answer Area

```

SELECT
  CityID,
  MIN(AccountOpenedDate),
  
  
FROM Application.Cities
INNER JOIN Sales.Customers ON CityID = PostalCityID
  
ORDER BY MIN(AccountOpenedDate) DESC

```

Box 1: RANK() OVER

RANK returns the rank of each row within the partition of a result set. The rank of a row is one plus the number of ranks that come before the row in question.

ROW_NUMBER and RANK are similar. ROW_NUMBER numbers all rows sequentially (for example 1, 2, 3, 4, 5).



Incorrect Answers:

DENSE_RANK returns the rank of rows within the partition of a result set, without any gaps in the ranking. The rank of a row is one plus the number of distinct ranks that come before the row in question.

Box 2: (PARTITION BY CityID ORDER BY MIN(AccountOpenedDate) DESC)

Syntax for RANK: RANK () OVER ([partition_by_clause] order_by_clause)

Box 3: GROUP BY CityID

References: <https://msdn.microsoft.com/en-us/library/ms176102.aspx>

QUESTION 3

DRAG DROP

You need to create a stored procedure to update a table named Sales.Customers. The structure of the table is shown in the exhibit. (Click the exhibit button.)

Sales.Customers

- Columns**
 - custid (PK, int, not null)
 - companyname (nvarchar(40), not null)
 - contactname (nvarchar(30), not null)
 - contacttitle (nvarchar(30), not null)
 - address (nvarchar(60), not null)
 - city (nvarchar(15), not null)
 - region (nvarchar(15), null)
 - postalcode (nvarchar(10), null)
 - country (nvarchar(15), not null)
 - phone (nvarchar(24), not null)
 - fax (nvarchar(24), null)

The stored procedure must meet the following requirements:



Accept two input parameters.

Update the company name if the customer exists.

Return a custom error message if the customer does not exist.

Which five 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.

NOTE: More than one order of answer choices is correct. You will receive credit for any of the correct orders you select.

Select and Place:

Transact-SQL segments	Answer Area
<pre>CREATE PROCEDURE Sales.ModCompanyName @custID int, @newname nvarchar(40) AS</pre>	
<pre>IF NOT EXISTS (SELECT custid FROM Sales.Customers WHERE custid = @custID)</pre>	
<pre>UPDATE Sales.Customers SET companyname = @newname WHERE custid = @custID</pre>	
<pre>BEGIN THROW 55555, 'The customer ID does not exist', 1 END</pre>	
<pre>UPDATE Sales.Customers SET companyname = @custID WHERE custid = @newname</pre>	
<pre>IF EXISTS (SELECT custid FROM Sales.Customers WHERE custid = @custID)</pre>	
<pre>ROLLBACK TRANSACTION</pre>	

Correct Answer:



Code segments

Answer Area

```
BEGIN TRY
  UPDATE dbo.Employee
  SET IsDeleted = 1
  WHERE Id = 1
END TRY
```

```
BEGIN CATCH
  RAISERROR ('No tables updated!',
16, 1)
END CATCH
```

```
UPDATE dbo.Employee
SET IsDeleted = 1
WHERE Id = 1
```

```
BEGIN CATCH
```

```
BEGIN TRY
  UPDATE dbo.UserLogin
  SET IsDeleted = 1
  WHERE Id = 1
END TRY
```

```
END CATCH
```

```
BEGIN TRY
  UPDATE dbo.UserLogin
  SET IsDeleted = 1
  WHERE Id = 1
  UPDATE dbo.Employee
  SET IsDeleted = 1
  WHERE Id = 1
END TRY
```



Correct Answer:



Code segments

Answer Area

```
UPDATE dbo.Employee  
SET IsDeleted = 1  
WHERE Id = 1
```

```
BEGIN TRY  
    UPDATE dbo.UserLogin  
    SET IsDeleted = 1  
    WHERE Id = 1  
    UPDATE dbo.Employee  
    SET IsDeleted = 1  
    WHERE Id = 1  
END TRY
```

```
BEGIN TRY  
    UPDATE dbo.UserLogin  
    SET IsDeleted = 1  
    WHERE Id = 1  
END TRY
```

```
BEGIN CATCH
```

```
BEGIN TRY  
    UPDATE dbo.Employee  
    SET IsDeleted = 1  
    WHERE Id = 1  
END TRY
```

```
BEGIN CATCH  
    RAISERROR ('No tables updated!',  
16, 1)  
END CATCH
```

```
END CATCH
```

QUESTION 5

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 on this series.

You have a database that tracks orders and deliveries for customers in North America. System versioning is enabled for all tables. The database contains the Sales.Customers, Application.Cities, and Sales.CustomerCategories tables.

Details for the Sales.Customers table are shown in the following table:



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 values
StandardDiscountPercentage	int	does not allow values
CreditLimit	decimal(18,2)	null values are permitted
IsOnCreditHold	bit	does not allow values
DeliveryLocation	geography	does not allow values
PhoneNumber	nvarchar(20)	does not allow values
ValidFrom	datetime2(7)	does not allow values, GENERATED ALWAYS AS ROW START
ValidTo	datetime2(7)	does not allow values, GENERATED ALWAYS AS ROW END

Details for the Application.Cities table are shown in the following table:

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

Details for the Sales.CustomerCategories table are shown in the following table:

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

You discover an application bug that impacts customer data for records created on or after January 1, 2014. In order to fix the data impacted by the bug, application programmers require a report that contains customer data as it existed on December 31, 2013.

You need to provide the query for the report.

Which Transact-SQL statement should you use?



- A.
- ```
DECLARE @sdate DATETIME, @edate DATETIME
SET @sdate = DATEFROMPARTS (2013, 12, 31)
set @edate = DATEADD(d, 1, @sdate)
SELECT * FROM Sales.Customers FOR SYSTEM_TIME AS OF @sdate
WHERE ValidFrom > @sdate AND ValidTo < @edate
```
- B.
- ```
DECLARE @sdate DATETIME, @edate DATETIME
SET @sdate = DATEFROMPARTS (2013, 12, 31)
set @edate = DATEADD(d, -1, @sdate)
SELECT * FROM Sales.Customers FOR SYSTEM_TIME BETWEEN @sdate AND @edate
```
- C.
- ```
DECLARE @date DATE
SET @date = DATEFROMPARTS (2013, 12, 31)
SELECT * FROM Sales.Customers FOR SYSTEM_TIME AS OF @date
```
- D.
- ```
DECLARE @date DATE
SET @date = DATEFROMPARTS (2013, 12, 31)
SELECT * FROM Sales.Customers WHERE @date BETWEEN ValidFrom AND ValidTo
```

A. B. C. D.

Correct Answer: D

The datetime datatype defines a date that is combined with a time of day with fractional seconds that is based on a 24-hour clock. The DATEFROMPARTS function returns a date value for the specified year, month, and day.

Incorrect Answers:

A: ValidFrom should be less () than @edate.

B: We should add a day with DATEADD, not subtract one day.

C: We cannot compare a date to an exact datetime.

References: <https://msdn.microsoft.com/en-us/library/ms187819.aspx>

QUESTION 6

You are performing a code review of stored procedures. Code at line SP03 fails to run (Line numbers are included for reference only.)



```
SP01 BEGIN TRY
SP02 BEGIN TRANSACTION
SP03 . . .
SP04 COMMIT TRANSACTION
SP05 END TRY
SP06 BEGIN CATCH
SP07
SP08 ROLLBACK TRANSACTION
SP09 END CATCH
```

You need to ensure that transactions are rolled back when an error occurs. Which Transact-SQL segment should you insert at line SP07?

- A. If @@Error 0
- B. If @@ TRANCOUNT = 0
- C. If @@ TRANCOUNT > 0
- D. If @@ Error = 0

Correct Answer: C

Using TRY...CATCH in a transaction

The following example shows how a TRY...CATCH block works inside a transaction. The statement inside the TRY block generates a constraint violation error.

```
BEGIN TRANSACTION;

BEGIN TRY

-- Generate a constraint violation error.

DELETE FROM Production.Product

WHERE ProductID = 980;

END TRY

BEGIN CATCH

SELECT

ERROR_NUMBER() AS ErrorNumber

,ERROR_SEVERITY() AS ErrorSeverity

,ERROR_STATE() AS ErrorState

,ERROR_PROCEDURE() AS ErrorProcedure

,ERROR_LINE() AS ErrorLine
```




```
,ERROR_MESSAGE() AS ErrorMessage;  
  
IF @@TRANCOUNT > 0  
  
ROLLBACK TRANSACTION;  
  
END CATCH;  
  
IF @@TRANCOUNT > 0  
  
COMMIT TRANSACTION;  
  
GO
```

References: <https://docs.microsoft.com/en-us/sql/t-sql/language-elements/try-catch-transact-sql>

QUESTION 7

DRAG DROP

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.

You query a database that includes two tables: Project and Task. The Project table includes the following columns:

Column name	Data type	Notes
ProjectId	int	This is a unique identifier for a project.
ProjectName	varchar(100)	
StartTime	datetime2(7)	
EndTime	datetime2(7)	A null value indicates the project is not finished yet.
UserId	int	Identifies the owner of the project.

Column name	Data type	Notes
TaskId	int	This is a unique identifier for a task.
TaskName	varchar(100)	A nonclustered index exists for this column.
ParentTaskId	int	Each task may or may not have a parent task.
ProjectId	int	A null value indicates the task is not assigned to a specific project.
StartTime	datetime2(7)	
EndTime	datetime2(7)	A null value indicates the task is not completed yet.
UserId	int	Identifies the owner of the task.

When running an operation, you updated a column named EndTime for several records in the Project table, but updates to the corresponding task records in the Task table failed.



You need to synchronize the value of the EndTime column in the Task table with the value of the EndTime column in the project table. The solution must meet the following requirements:

If the EndTime column has a value, make no changes to the record.

If the value of the EndTime column is null and the corresponding project record is marked as completed, update the record with the project finish time.

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.

Select and Place:

Transact-SQL segments	Answer Area
FROM Project AS P	
WHERE P.EndTime IS NOT NULL AND T.EndTime is NULL	
FROM Task AS T	
WHERE P.EndTime IS NULL AND T.EndTime IS NOT NULL	
UPDATE T SET T.EndTime = P.EndTime	
INNER JOIN Project AS P ON T.ProjectId = P.ProjectId	
INNER JOIN Task AS T ON T.UserId = P.UserId	
UPDATE P SET P.EndTime = T.EndTime	

Correct Answer:

Transact-SQL segments	Answer Area
FROM Project AS P	UPDATE P SET P.EndTime = T.EndTime
	FROM Task AS T
	INNER JOIN Project AS P ON T.ProjectId = P.ProjectId
WHERE P.EndTime IS NULL AND T.EndTime IS NOT NULL	WHERE P.EndTime IS NOT NULL AND T.EndTime is NULL
UPDATE T SET T.EndTime = P.EndTime	
INNER JOIN Task AS T ON T.UserId = P.UserId	



Box 1: UPDATE T SET T.EndTime = P.EndTime

We are updating the EndTime column in the Task table.

Box 2: FROM Task AS T

Where are updating the task table.

Box 3: INNER JOIN Project AS P on T.ProjectID = P.ProjectID

We join with the Project table (on the ProjectID columnID column).

Box 4: WHERE P.EndTime is NOT NULL AND T.EndTime is NULL

We select the columns in the Task Table where the EndTime column in the Project table has a value (NOT NULL),but where it is NULL in the Task Table.

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

QUESTION 8

DRAG DROP

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. Start of repeated scenario

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.Orders.



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

End of repeated scenario

You need to create a common table expression (CTE) that returns the total number of orders per year for each customer.

Which five 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

- SELECT CustomerID, COUNT(OrderID) AS TotalOrders, OrderYear
FROM Orders_CTE
- WITH Orders_CTE (CustomerID, OrderID, OrderYear)
- GROUP BY OrderYear, CustomerID
- AS
(
SELECT c.CustomerID, o.OrderID, YEAR(o.OrderDate) AS OrderYear
FROM Sales.Customers c, Sales.Orders o
WHERE o.CustomerID = c.CustomerID
)
- ORDER BY CustomerID, OrderYear
- MERGE Sales.Customers

Answer Area

⬅
➡

⬆
⬇

Correct Answer:



Transact-SQL segments

MERGE Sales.Customers

Answer Area

```
WITH Orders_CTE (CustomerID, OrderID, OrderYear)
AS
(
SELECT c.CustomerID, o.OrderID,
YEAR(o.OrderDate) AS OrderYear
FROM Sales.Customers c, Sales.Orders o
WHERE o.CustomerID = c.CustomerID
)
SELECT CustomerID, COUNT(OrderID) AS
TotalOrders, OrderYear
FROM Orders_CTE
GROUP BY OrderYear, CustomerID
ORDER BY CustomerID, OrderYear
```



References: <https://docs.microsoft.com/en-us/sql/t-sql/queries/with-common-table-expression-transact-sql?view=sql-server-2017>

QUESTION 9

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 named DB1 that contains two tables named Sales.Customers and Sales.Orders. Sales.Customers has a foreign key relationship to a column named CustomerID in Sales.Orders.

You need to recommend a query that returns all the customers. The query must also return the number of orders that each customer placed in 2016.

Solution: You recommend the following query:



```
SELECT
    Cust.CustomerName,
    NumberOfOrders = COUNT (Cust.CustomerID)
FROM
    Sales.Customers Cust
LEFT JOIN
    Sales.Orders Ord
    ON Cust.CustomerID = Ord.OrderID
GROUP BY
    Cust.CustomerName
```

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

QUESTION 10

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 is denormalized. Users make frequent changes to data in a primary table.

You need to ensure that users cannot change the tables directly, and that changes made to the primary table also update any related tables.

What should you implement?

A. the COALESCE function

B. a view

C. a table-valued function

D. the TRY_PARSE function

E. a stored procedure

F. the ISNULL function

G. a scalar function

H. the TRY_CONVERT function

Correct Answer: B



Using an Indexed View would allow you to keep your base data in properly normalized tables and maintain data-integrity while giving you the denormalized "view" of that data. References: <http://stackoverflow.com/questions/4789091/updating-redundant-denormalized-data-automatically-in-sql-server>

QUESTION 11

You have a database named DB1 that contains a temporal table named Sales.Customers.

You need to create a query that returns the credit limit that was available to each customer in DB1 at the beginning of 2017.

Which query should you execute?



```
SELECT
    CustomerID,
    CustomerName,
    CreditLimit
FROM
    Sales.Customers
    FOR SYSTEM_TIME CONTAINED IN ('2017-01-01');
```

A.

```
SELECT
    CustomerID,
    CustomerName,
    CreditLimit
FROM
    Sales.Customers
    FOR SYSTEM_TIME CONTAINED IN ('2017-01-01');
```

B.

```
SELECT
    CustomerID,
    CustomerName,
    CreditLimit
FROM
    Sales.Customers
    FOR SYSTEM_TIME AS OF '2017-01-01';
```

C.

```
SELECT
    CustomerID,
    CustomerName,
    CreditLimit
FROM
    Sales.Customers
    FOR SYSTEM_TIME ALL;
```

D.

```
SELECT
    CustomerID,
    CustomerName,
    CreditLimit
FROM
    Sales.Customers
    FOR SYSTEM_TIME BETWEEN '2016-12-31' AND '2017-01-01');
```

A. B. C. D.

Correct Answer: B

**QUESTION 12**

SIMULATION

You have a database that contains the following tables.



You need to create a query that lists the lowest-performing salespersons based on the current year-to-date sales period. The query must meet the following requirements:

Return a column named Fullname that includes the salesperson FirstName, a space, and then LastName.

Include the current year-to-date sales for each salesperson.

Display only data for the three salespersons with the lowest year-to-year sales values.

Exclude salespersons that have no value for TerritoryID.

Construct the query using the following guidelines:

Use the first letter of a table name as the table alias.

Use two-part column names.

Do not surround object names with square brackets.

Do not use implicit joins.

Use only single quotes for literal text.

Use aliases only if required.

**Keywords**

ADD	EXIT	PROC
ALL	EXTERNAL	PROCEDURE
ALTER	FETCH	PUBLIC
AND	FILE	RAISERROR
ANY	FILLFACTOR	READ
AS	FORFOREIGN	READTEXT
ASC	FREETEXT	RECONFIGURE
AUTHORIZATION	FREETEXTTABLE	REFERENCES
BACKUP	FROM	REPLICATION
BEGIN	FULL	RESTORE
BETWEEN	FUNCTION	RESTRICT
BREAK	GOTO	RETURN
BROWSE	GRANT	REVERT
BULK	GROUP	REVOKE
BY	HAVING	RIGHT
CASCADE	HOLDLOCK	ROLLBACK
CASE	IDENTITY	ROWCOUNT
CHECK	IDENTITY_INSERT	ROWGUIDCOL
CHECKPOINT	IDENTITYCOL	RULE
CLOSE	IF	SAVE
CLUSTERED	IN	SCHEMA
COALESCE	INDEX	SECURITYAUDIT
COLLATE	INNER	SELECT
COLUMN	INSERT	SEMANTICKEYPHRASETABLE
COMMIT	INTERSECT	SEMANTICSIMILARITYDETAILSTABLE
COMPUTE	INTO	SEMANTICSIMILARITYTABLE
CONCAT	IS	SESSION_USER
CONSTRAINT	JOIN	SET
CONTAINS	KEY	SETUSER
CONTAINSTABLE	KILL	SHUTDOWN
CONTINUE	LEFT	SOME
CONVERT	LIKE	STATISTICS
CREATE	LINENO	SYSTEM_USER
CROSS	LOAD	TABLE
CURRENT	MERGE	TABLESAMPLE
CURRENT_DATE	NATIONAL	TEXTSIZE
CURRENT_TIME	NOCHECK	THEN
CURRENT_TIMESTAMP	NONCLUSTERED	TO
CURRENT_USER	NOT	TOP
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
DISTINCT	OPENXML	UPDATETEXT
DISTRIBUTED	OPTION	USE
DOUBLE	OR	USER
DROP	ORDER	VALUES
DUMP	OUTER	VARYING
ELSE	OVER	VIEW
END	PERCENT	WAITFOR
ERRLVL	PIVOT	WHEN
ESCAPE	PLAN	WHERE
ESCEPT	PRECISION	WHILE
EXEC	PRIMARY	WITH
EXECUTE	PRINT	WITHIN GROUP
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
2 FROM Person AS P INNER JOIN SalesPerson AS S
3 ON P.PersonID = S.SalesPersonID
4 WHERE
```

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

A. Check the answer in explanation.

Correct Answer: A

QUESTION 13

You develop and deploy a project management application. The application uses a Microsoft SQL Server database to store data. You are developing a software bug tracking add-on for the application. The add-on must meet the following requirements:

Allow case sensitive searches for product.

Filter search results based on exact text in the description.

Support multibyte Unicode characters.

You run the following Transact-SQL statement:

```
CREATE TABLE Bug (
    Id UNIQUEIDENTIFIER NOT NULL,
    Product NVARCHAR(255) NOT NULL,
    Description NVARCHAR(max) NOT NULL,
    DateCreated DATETIME NULL,
    ReportingUser VARCHAR(50) NULL
)
```

You need to ensure that users can perform searches of descriptions. Which Transact-SQL statement should you run?



```
DECLARE @term NVARCHAR(255)
. . .
SELECT Id, Description
FROM Bug
WHERE CHARINDEX(@term, Description) > 0
```

- A. DECLARE @term NVARCHAR(255)
. . .
SELECT Id, Description
FROM Bug
WHERE CHARINDEX(@term, Description) > 0
- B. DECLARE @term NVARCHAR(255)
. . .
SELECT Id, Description
FROM Bug
WHERE DIFFERENCE(@term, Description) > 0
- C. DECLARE @term NVARCHAR(255)
. . .
SELECT Id, Description
FROM Bug
WHERE CONTAINS (Description, '%@term%')
- D. DECLARE @term NVARCHAR(255)
. . .
SELECT Id, Description
FROM Bug
WHERE CONTAINS (Description, @term)



A. B. C. D.

Correct Answer: D

References: <https://docs.microsoft.com/en-us/sql/t-sql/queries/contains-transact-sql?view=sql-server-2017>

QUESTION 14

You have a database named DB1 that contains a temporal table named Sales.Customers.

You need to create a query that returns the credit limit that was available to each customer in DB1 at the beginning of 2017.

Which query should you execute?

```
SELECT
    CustomerID,
    CustomerName,
    CreditLimit
FROM
    Sales.Customers
    FOR SYSTEM_TIME CONTAINED IN ('2017-01-01 00:00:00');
```

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- A.
- ```
SELECT
 CustomerID,
 CustomerName,
 CreditLimit
FROM
 Sales.Customers
 FOR SYSTEM_TIME CONTAINED IN ('2017-01-01 00:00:00');
```
- B.
- ```
SELECT
    CustomerID,
    CustomerName,
    CreditLimit
FROM
    Sales.Customers
    FOR SYSTEM_TIME AS OF '2017-01-01 00:00:00';
```
- C.
- ```
SELECT
 CustomerID,
 CustomerName,
 CreditLimit
FROM
 Sales.Customers
 FOR SYSTEM_TIME CONTAINED IN ('2016-12-31', '2017-01-01');
```
- D.
- ```
SELECT
    CustomerID,
    CustomerName,
    CreditLimit
FROM
    Sales.Customers
    FOR SYSTEM_TIME BETWEEN '2016-12-31' AND '2017-01-01');
```

A. B. C. D.

Correct Answer: B

QUESTION 15

HOTSPOT

You have a database that contains the following tables: tblRoles, tblUsers, and tblUsersInRoles.

The table tblRoles is defined as follows.



Column name	Data type	Nullable	Primary key
RoleID	int	No	Yes
RoleName	varchar(20)	No	No

You have a function named ufnGetRoleActiveUsers that was created by running the following Transact-SQL statement:

```
CREATE FUNCTION ufnGetRoleActiveUsers (@RoleId AS int)
RETURNS @roleSummary TABLE (UserName varchar (20))
AS
BEGIN
    INSERT INTO @roleSummary
    SELECT U.UserName FROM tblUsersInRoles BRG
    INNER JOIN tblUsers U
    ON U.UserId = BRG.UserId
    WHERE BRG.RoleId = @RoleId AND U.IsActive = 1
    RETURN
END
```

You need to list all roles and their corresponding active users. The query must return the RoleId, RoleName, and UserName columns. If a role has no active users, a NULL value should be returned as the UserName for that role. How should you complete the Transact-SQL statement? To answer, select the appropriate Transact-SQL segments in the answer area.

Hot Area:

Answer area

SELECT *

FROM

tblRoles
tblUsersInRoles
tblUsers

CROSS JOIN
OUTER APPLY
CROSS APPLY

ufnGetRoleActiveUsers(

RoleId
UserId
RoleName

Correct Answer:



Answer area

SELECT *

FROM

tblRoles
tblUsersInRoles
tblUsers

CROSS JOIN
OUTER APPLY
CROSS APPLY

ufnGetRoleActiveUsers(

RoleId
UserId
RoleName

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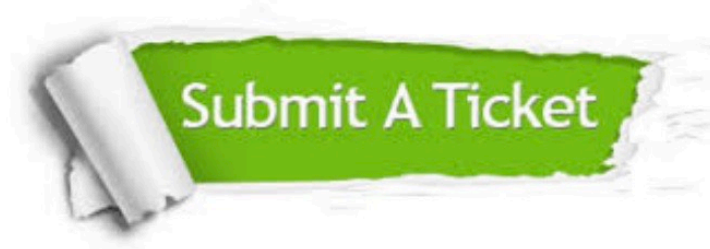
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