

70-761^{Q&As}

Querying Data with Transact-SQL

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QUESTION 1

DRAG DROP

You have two tables named UserLogin and Employee respectively.

You need to create a Transact-SQL script that meets the following requirements:

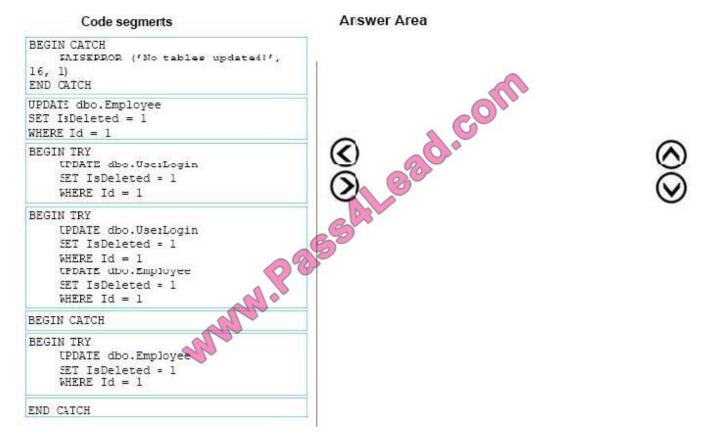
The script must update the value of the IsDeleted column for the UserLogin table to 1 if the value of the Id column for the UserLogin table is equal to 1.

The script must update the value of the IsDeleted column of the Employee table to1if the value of the Id column is equal to1for the Employee table when an update to the UserLogin table throws an error.

The error message "No tables updated!" must be produced when an update to the Employee table throws an error.

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.

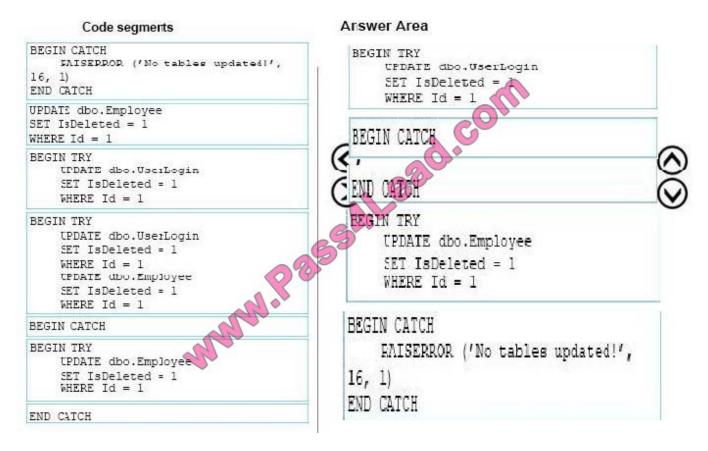
Select and Place:



Correct Answer:

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A TRY block must be immediately followed by an associated CATCH block. Including any other statements between the END TRY and BEGIN CATCH statements generates a syntax error. References: https://msdn.microsoft.com/en-us/library/ms175976.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 thescenario 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.

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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

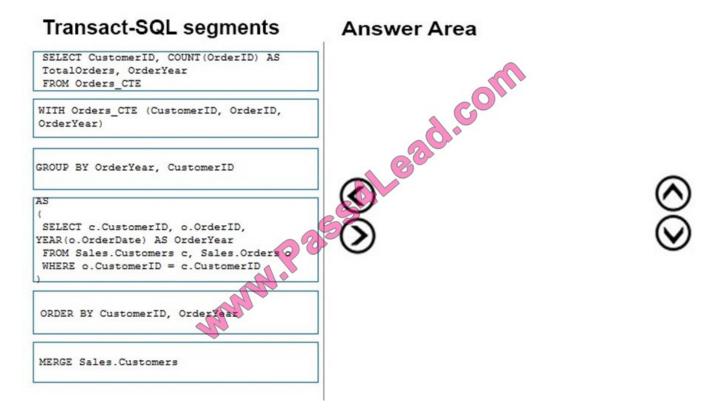
End of repeated scenario

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

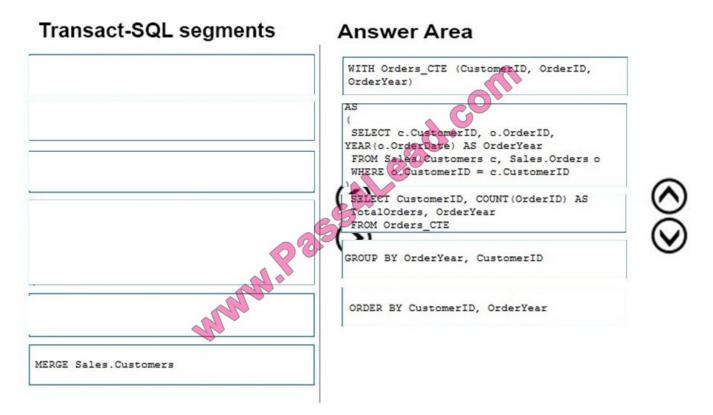
Which five Transact-SQL segments should you use to develop the solution? To answer, move the appropriate Transact-SQL segments from the list of Transact-SQL segments to the answer area and arrange them in the correct order.

Select and Place:





Correct Answer:



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



QUESTION 3

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

```
CREATE TABLE tblRoles (
RoleId int NOT NULL IDENTITY(1,1) FRIMARY 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 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 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

QUESTION 4

HOTSPOT

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You run the following Transact-SQL statement:

```
CREATE TABLE Sales.Customers(
    custid int IDENTITY(1,10 NOT NULL,
    companyname nvarchar(50) NULL,
    contacttitle nvarchar(30) NOT NULL,
    address nvarchar(60) NOT NULL,
    postalcode nvarchar(10) NOT NULL,
    region nvarchar(15) NULL,
    phone nvarchar(24) NOT NULL,
    fax nvarchar(24) NULL,
) ON PPRIMARY
```

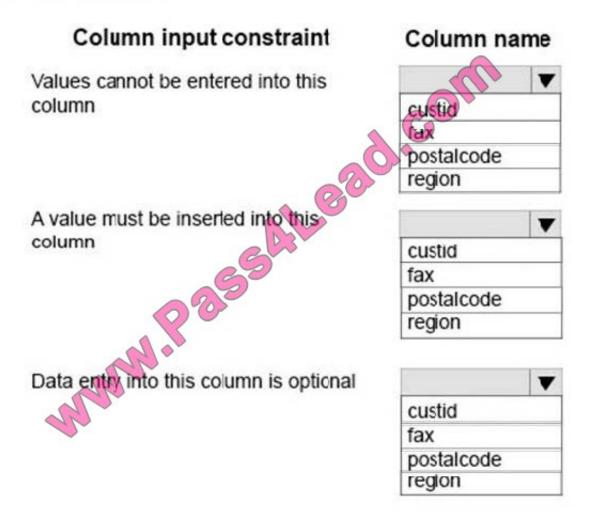
You need to ensure that you can insert data into the table.

What are the characteristics of the data? To answer, select the appropriate options in the answer area.

Hot Area:



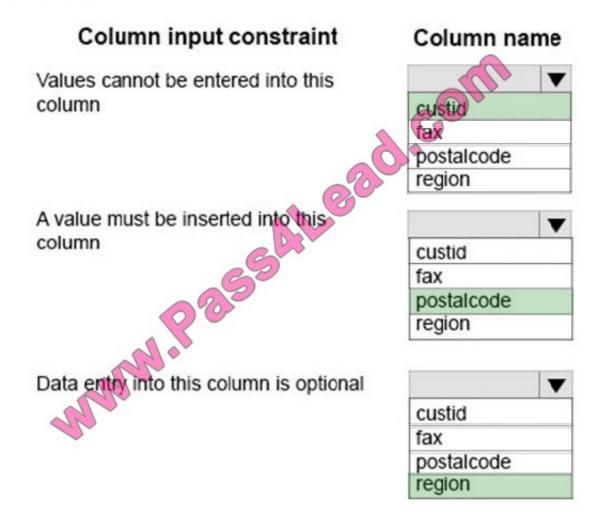
Answer Area



Correct Answer:



Answer Area



Box 1: custid

IDENTITY indicates that the new column is an identity column. When a new row is added to the table, the Database Engine provides a unique, incremental value for the column. Identity columns are typically used with PRIMARY KEY

constraints to serve as the unique row identifier for the table.

Box2: postalcode

postalcode is declared as NOT NULL, which means that a value must be inserted.

Box 3: region

Fax is also a correct answer. Both these two columns are declared as NULL, which means that data entry is optional.

References: https://msdn.microsoft.com/en-us/library/ms174979.aspx

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QUESTION 5

SIMULATION

You create a table named Sales. Orders by running the following Transact-SQL statement:

```
CREATE TABLE Sales.Orders (
OrderID int NOT NULL,
OrderDate date NULL,
ShippedDate date NULL,
Status varchar(10),
CONSTRAINT PK_ORDERS PRIMARY KEY CLUSTERED OrderID
```

You need to write a query that removes orders from the table that have a Status of Canceled.

Construct the query using the following guidelines: use one-part column names and two-part table names use single quotes around literal values do not use functions do not surround object names with square brackets do not use variables do not use aliases for column names and table names 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.

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Keywords

ADD PROC EXIT ALL PROCEDURE EXTERNAL ALTER PUBLIC FETCH AND RAISERROR FILE ANY READ FILLFACTOR AS FORFOREIGN READTEXT ASC RECONFIGURE FREETEXT AUTHORIZATION REFERENCES FREETEXTTABLE BACKUP REPLICATION FROM BEGIN RESTORE FULL BETWEEN RESTRICT FUNCTION RETURN BREAK GOTO BROWSE REVERT GRANT BULK REVOKE GROUP BY RIGHT HAVING CASCADE ROLLBACK HOLDLOCK CASE ROWCOUNT IDENTITY ROWGUIDCOL IDENTITY_INSERT CHECKPOINT RULE IDENTITYCOL SAVE CLOSE IF CLUSTERED SCHEMA IN COALESCE SECURITYAUDIT INDEX COLLATE SELECT INNER SEMANTICKEYPHRASETABLE COLUMN INSERT SEMANTICSIMALARITYDETAILSTABLE COMMIT INTERSECT SEMANTI SIMILARITYTABLE COMPUTE INTO SESSEON USER CONCAT IS CONSTRAINT SEP JOIN SETUSER CONTAINS KEY CONTAINSTABLE SHUTDOWN KILL SOME CONTINUE LEFT CONVERT STATISTICS LIKE CREATE SYSTEM_USER LINENO CROSS TABLE LOAD CURRENT TABLESAMPLE MERGE CURRENT_DATE NATIONAL NOCHECK TEXTSIZE CURRENT_TIME THEN CURRENT TIMESTAMP TO NONCLUSTERED CURENT_USER TOP NOT CURSOR TRAN NULL DATABASE NULLIF TRANSACTION DBCC TRIGGER DEALLOCATE TRUNCATE OFF DECLARE TRY CONVERT OFFSETS DEFAULT TSEQUAL ON DELETE UNTON OPEN DENY UNIQUE OPENDATASOURCE DESC UNPIVOT OPENQUERY DISK UPDATE OPENROWSET DISTINCT UPDATETEXT OPENXML DISTRIBUTED USE OPTION DOUBLE USER OR DROP VALUES ORDER DUMP VARYING OUTER ELSE VIEW OVER END WAITFOR PERCENT ERRLVL WHEN PIVOT ESCAPE WHERE PLAN ESCEPT WHILE PRECISION EXEC PRIMARY WITH EXECUTE WITHIN GROUP PRINT EXISTS WRITETEXT



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1 DELETE from sales.orders where status='calceled'

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

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