CONTAINS can search for:

* A word or phrase.
* The prefix of a word or phrase.
* A word near another word.
* A word inflectionally generated from another (for example, the word drive is the inflectional stem of drives, drove, driving, and driven).
* A word that is a synonym of another word using a thesaurus (for example, the word metal can have synonyms such as aluminum and steel).

**A. Using CONTAINS with <simple\_term>**

The following example finds all products with a price of $80.99 that contain the word "Mountain".

[[http://i.msdn.microsoft.com/Global/Images/clear.gif](javascript:CopyCode('ctl00_rs1_mainContentContainer_ctl49other');)Copy Code](javascript:CopyCode('ctl00_rs1_mainContentContainer_ctl49other');)

USE AdventureWorks;

GO

SELECT Name, ListPrice

FROM Production.Product

WHERE ListPrice = 80.99

AND CONTAINS(Name, 'Mountain');

GO

**B. Using CONTAINS and phrase in <simple\_term>**

The following example returns all products that contain either the phrase "Mountain" or "Road".

[[http://i.msdn.microsoft.com/Global/Images/clear.gif](javascript:CopyCode('ctl00_rs1_mainContentContainer_ctl50other');)Copy Code](javascript:CopyCode('ctl00_rs1_mainContentContainer_ctl50other');)

USE AdventureWorks;

GO

SELECT Name

FROM Production.Product

WHERE CONTAINS(Name, ' "Mountain" OR "Road" ')

GO

**C. Using CONTAINS with <prefix\_term>**

The following example returns all product names with at least one word starting with the prefix chain in the Name column.

[[http://i.msdn.microsoft.com/Global/Images/clear.gif](javascript:CopyCode('ctl00_rs1_mainContentContainer_ctl51other');)Copy Code](javascript:CopyCode('ctl00_rs1_mainContentContainer_ctl51other');)

USE AdventureWorks;

GO

SELECT Name

FROM Production.Product

WHERE CONTAINS(Name, ' "Chain\*" ');

GO

**D. Using CONTAINS and OR with <prefix\_term>**

The following example returns all category descriptions containing strings with prefixes of either "chain" or "full".

[[http://i.msdn.microsoft.com/Global/Images/clear.gif](javascript:CopyCode('ctl00_rs1_mainContentContainer_ctl52other');)Copy Code](javascript:CopyCode('ctl00_rs1_mainContentContainer_ctl52other');)

USE AdventureWorks;

GO

SELECT Name

FROM Production.Product

WHERE CONTAINS(Name, '"chain\*" OR "full\*"');

GO

**E. Using CONTAINS with <proximity\_term>**

The following example returns all product names that have the word bike near the word performance.

[[http://i.msdn.microsoft.com/Global/Images/clear.gif](javascript:CopyCode('ctl00_rs1_mainContentContainer_ctl53other');)Copy Code](javascript:CopyCode('ctl00_rs1_mainContentContainer_ctl53other');)

USE AdventureWorks;

GO

SELECT Description

FROM Production.ProductDescription

WHERE CONTAINS(Description, 'bike NEAR performance');

GO

**F. Using CONTAINS with <generation\_term>**

The following example searches for all products with words of the form ride: riding, ridden, and so on.

[[http://i.msdn.microsoft.com/Global/Images/clear.gif](javascript:CopyCode('ctl00_rs1_mainContentContainer_ctl54other');)Copy Code](javascript:CopyCode('ctl00_rs1_mainContentContainer_ctl54other');)

USE AdventureWorks;

GO

SELECT Description

FROM Production.ProductDescription

WHERE CONTAINS(Description, ' FORMSOF (INFLECTIONAL, ride) ');

GO

**G. Using CONTAINS with <weighted\_term>**

The following example searches for all product names containing the words performance, comfortable, or smooth, and different weightings are given to each word.

[[http://i.msdn.microsoft.com/Global/Images/clear.gif](javascript:CopyCode('ctl00_rs1_mainContentContainer_ctl55other');)Copy Code](javascript:CopyCode('ctl00_rs1_mainContentContainer_ctl55other');)

USE AdventureWorks;

GO

SELECT Description

FROM Production.ProductDescription

WHERE CONTAINS(Description, 'ISABOUT (performance weight (.8),

comfortable weight (.4), smooth weight (.2) )' );

GO

**H. Using CONTAINS with variables**

The following example uses a variable instead of a specific search term.

[[http://i.msdn.microsoft.com/Global/Images/clear.gif](javascript:CopyCode('ctl00_rs1_mainContentContainer_ctl56other');)Copy Code](javascript:CopyCode('ctl00_rs1_mainContentContainer_ctl56other');)

USE AdventureWorks;

GO

DECLARE @SearchWord nvarchar(30)

SET @SearchWord = N'Performance'

SELECT Description

FROM Production.ProductDescription

WHERE CONTAINS(Description, @SearchWord);

GO

**I. Using CONTAINS with A Logical Operator (AND)**

The following example uses the **ProductDescription** table of the **AdventureWorks** database. The query uses the CONTAINS predicate to search for descriptions in which the description ID is not equal to 5 and the description contains both the word "Aluminum" and the word "spindle." The search condition uses the AND Boolean operator.

[[http://i.msdn.microsoft.com/Global/Images/clear.gif](javascript:CopyCode('ctl00_rs1_mainContentContainer_ctl57other');)Copy Code](javascript:CopyCode('ctl00_rs1_mainContentContainer_ctl57other');)

USE AdventureWorks;

GO

SELECT Description

FROM Production.ProductDescription

WHERE ProductDescriptionID <> 5 AND

CONTAINS(Description, ' Aluminum AND spindle');

GO

**J. Using CONTAINS to Verify a Row Insertion**

The following example uses CONTAINS within a SELECT subquery. Using the **AdventureWorks** database, the query obtains the comment value of all the comments in the **ProductReview** table for a particular cycle. The search condition uses the AND Boolean operator.

[[http://i.msdn.microsoft.com/Global/Images/clear.gif](javascript:CopyCode('ctl00_rs1_mainContentContainer_ctl58other');)Copy Code](javascript:CopyCode('ctl00_rs1_mainContentContainer_ctl58other');)

USE AdventureWorks;

GO

INSERT INTO Production.ProductReview

(ProductID, ReviewerName, EmailAddress, Rating, Comments)

VALUES

(780, 'John Smith', 'john@fourthcoffee.com', 5,

'The Mountain-200 Silver from AdventureWorks Cycles meets and exceeds expectations. I enjoyed the smooth ride down the roads of Redmond')

-- Given the full-text catalog for these tables is Adv\_ft\_ctlg,

-- with change\_tracking on so that the full-text indexes are updated automatically.

WAITFOR DELAY '00:00:30'

-- Wait 30 seconds to make sure that the full-text index gets updated.

SELECT r.Comments, p.Name

FROM Production.ProductReview r

JOIN Production.Product p

ON

 r.ProductID = p.ProductID

AND r.ProductID = (SELECT ProductID

                  FROM Production.ProductReview

                  WHERE CONTAINS (Comments,

                                 ' AdventureWorks AND

                                   Redmond AND

                                   "Mountain-200 Silver" '))