Determine Differences Between Two Collections

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Module Goals

Working with two collections

Are collections equal

Find values in one and not the other

Find all values in common

Equality

SequenceEqual()

Compares two collections for equality

Simple data types (int, decimal, etc.) - checks values

Object data types checks reference

Use comparer class to check values in properties

Uses of SequenceEqual()

Read lines from two text files and see if they are the same

Read Color field from two different tables and see if values are equal

Uses of SequenceEqual()

Read customer data from two different tables and use comparer to see if they are equal

Read columns from two tables in two different databases to see what is different

Demo

SequenceEqual using integers

Demo

SequenceEqual using object references

Demo

SequenceEqual using a comparer class

Exceptions

Except()

Find all values in one list, but not the other

Returns the list of the exceptions

Except()

Simple data types (int, decimal, etc.) - checks values

Object data types checks reference

Use comparer class to check values in properties

Uses of Except()

Find those products that do not have sales

Find those customers that have not ordered ProductID 707

What data differences exist between QA and production databases

Demo

Except using integers

Demo

Find products that do not have sales

Demo

Except using comparer class

ExceptBy()

Find all values in one list, but not the other

Returns the list of objects that are different

Don't need a comparer class

Demo

ExceptBy using key expression

Demo

Find products that do not have sales

Intersection

Intersect

Find all values in common between two lists

Simple data types (int, decimal, etc.) - checks values

Object data types checks reference

Use comparer class to check values in properties

Demo

Intersect using integers

Demo

Find products that have sales

Demo

Intersect using comparer class

IntersectBy()

Find all values in common between two lists

Returns the list of objects that are the same

Don't need a comparer class

Demo

IntersectBy using key expression

Demo

Find products that have sales

Module Summary

Easy to compare values between two collections

Simple data types = automatic checking

Object data types = need a comparer class

*By() methods eliminate need for comparer class

Up Next:

Concatenate Collections Together Using Union and Concat