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





SequenceEqual using integers



SequenceEqual using object references



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()

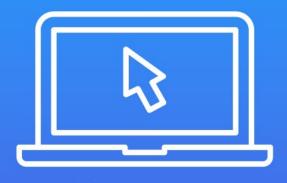
Find those products that do not have sales

Find those customers that have not ordered ProductID 707

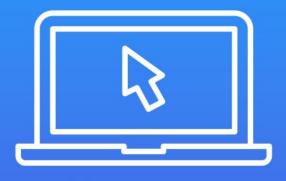
What data differences exist between QA and production databases



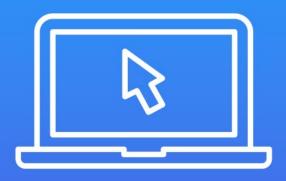




Except using integers



Find products that do not have sales



Except using comparer class

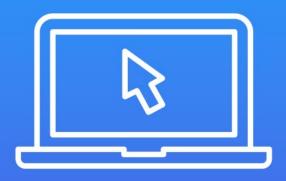
ExceptBy()

Find all values in one list, but not the other

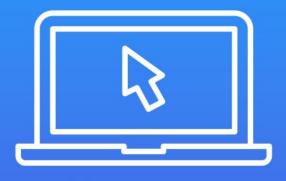
Returns the list of objects that are different

Don't need a comparer class





ExceptBy using key expression



Find products that do not have sales

Intersection



Intersect

Find all values in common between two lists

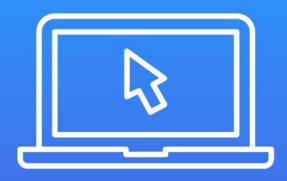
Simple data types (int, decimal, etc.) - checks values

Object data types checks reference

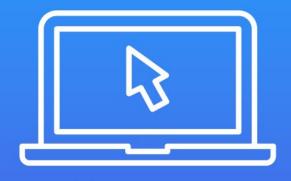
Use comparer class to check values in properties



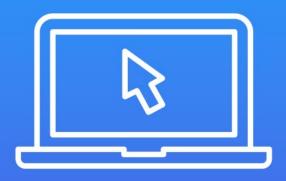




Intersect using integers



Find products that have sales



Intersect using comparer class

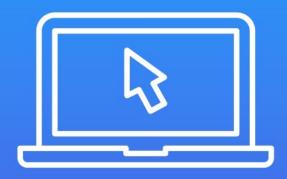
IntersectBy()

Find all values in common between two lists

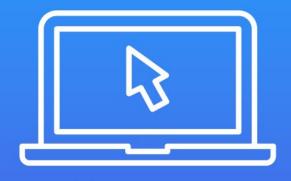
Returns the list of objects that are the same

Don't need a comparer class





IntersectBy using key expression



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

