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Assignment 4

**//part A**

//get a list of all titles and authors who wrote them. Sort by title

var authorsAndTitles =

from book in dbcontext.Titles

from author in book.Authors

orderby book.Title1

select new { book.Title1, author.FirstName, author.LastName };

//prints sort by title

outputTextBox.AppendText("\nList of all titles and authors who wrote them by title:\n");

outputTextBox.AppendText("\n");

foreach (var x in authorsAndTitles)

{ outputTextBox.AppendText(x.Title1 + ": " + x.FirstName + " " + x.LastName + "\n"); }

outputTextBox.AppendText("\n");

**//part B**

//get a list of all the titles and the authors who wrote them. Sort the result by title. For each title sort the authors alphabetically by last name, then first name.

var partb =

from book in dbcontext.Titles

from author in book.Authors

orderby book.Title1, author.LastName, author.FirstName

select new { book.Title1, author.FirstName, author.LastName };

//prints sort the result by title. For each title sort the authors alphabetically by last name, then first name.

outputTextBox.AppendText("\nAuthors and titles with authors sorted for each title: \n");

outputTextBox.AppendText("\n");

foreach (var x in partb)

{ outputTextBox.AppendText(x.Title1 + ": " + x.FirstName + " " + x.LastName + "\n"); }

outputTextBox.AppendText("\n");

**//part C**

//get a list of all the authors grouped by title, sorted by title; for a given title sort the author names alphabetically by last name first then first name.

var partc =

from book in dbcontext.Titles

orderby book.Title1

select new

{

book.Title1,

Name = from author in book.Authors

orderby author.LastName, author.FirstName

select author.FirstName + " " + author.LastName

};

//prints grouped by title, sorted by title; for a given title sort the author names alphabetically by last name first then first name.

outputTextBox.AppendText("Titles grouped by author: ");

outputTextBox.AppendText("\n");

foreach (var title in partc)

{

outputTextBox.AppendText(title.Title1 + ":\n");//prints title

foreach (var name in title.Name)

{ outputTextBox.AppendText(name + "\n"); }

}