CSE 382
Exercise - Accessing database records using Linq

Use Git Project `DBSetup` as the starting point for this exercise. You will complete the six queries shown in blue.

Push your source code to Git and provide a 1 minute video showing your queries working.

Student				
FirstName	**LastName**	**SSN**	**GPA**	**Legacy**
Bugs	Bunny	111-11-1111	3.4	false
Marvin	Martian	222-22-2222	3.2	false
Homer	Simpson	333-33-3333	0.4	true
Yosemite	Sam	444-44-4444	1.4	false
Bart	Simpson	555-55-5555	0.9	true
Jim	Kiper	666-66-6666	2.4	true
Elmer	Fudd	777-77-7777	2.0	false
SpongeBob	SquarePants	888-88-8888	3.2	false
Shaggy	Rogers	999-99-9999	2.7	false
Bobby	Hill	000-00-0000	2.7	false

```
var theTable = MainPage.conn.Table<CreateDB.Student>();
```
Student Queries

1. lv.ItemsSource = theTable.ToList();
2. lv.ItemsSource = theTable.Where(s => s.GPA >= 3.0).ToList();
3. lv.ItemsSource = theTable.Where(s => s.GPA >= 3.0).Select(s => s.LastName).ToList();
4. lv.ItemsSource = theTable.Select(s => new Tuple<string, string>(s.FirstName, s.LastName)).ToList();
5. lv.ItemsSource = theTable.AsEnumerable().Where(s => s.GPA >= 3.0 && s.LastName[0] == 'S').ToList();
6. lv.ItemsSource = theTable.OrderBy(s => s.GPA).ToList();
7. lv.ItemsSource = (from s in theTable where s.GPA >= 3.0 select s).ToList();
8. Write a Linq query to display the legacy students.
9. Write a Linq query to display only the last name of legacy students.
10. Write a Linq query to display only the last name of students who are legacy students or have GPA >= 3.0.

User Queries

User	
Name	**DateCreated**
jsmith	8/1/1997
jgonzales	8/1/2000
gpierce	8/1/2000
ahinojsa	8/1/2005
jlin	8/1/2005

lsmith	10/1/2005
akaline	7/1/2010
prose	8/1/2020

var theTable = MainPage.conn.Table<CreateDB.User>();

1. Write a query to return all the Users
2. Write a query to return all Users whose accounts were created 2010 and after.
3. Write a query to return all Users whose username begins with a 'j'.