**ScreenShots**

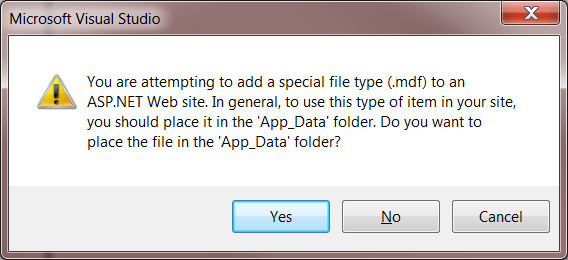
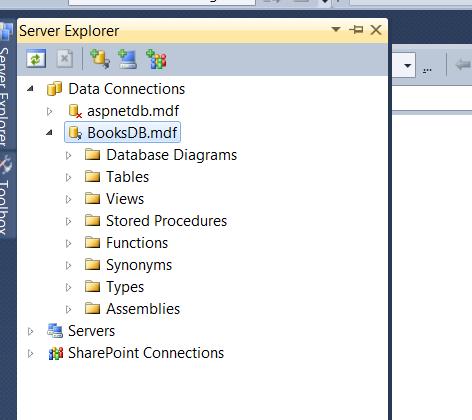
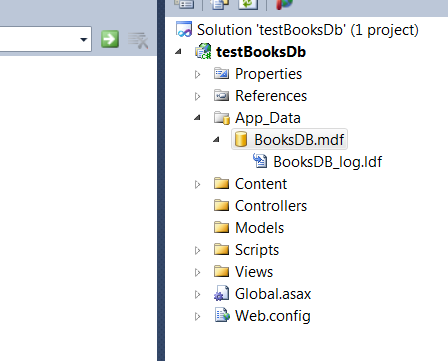
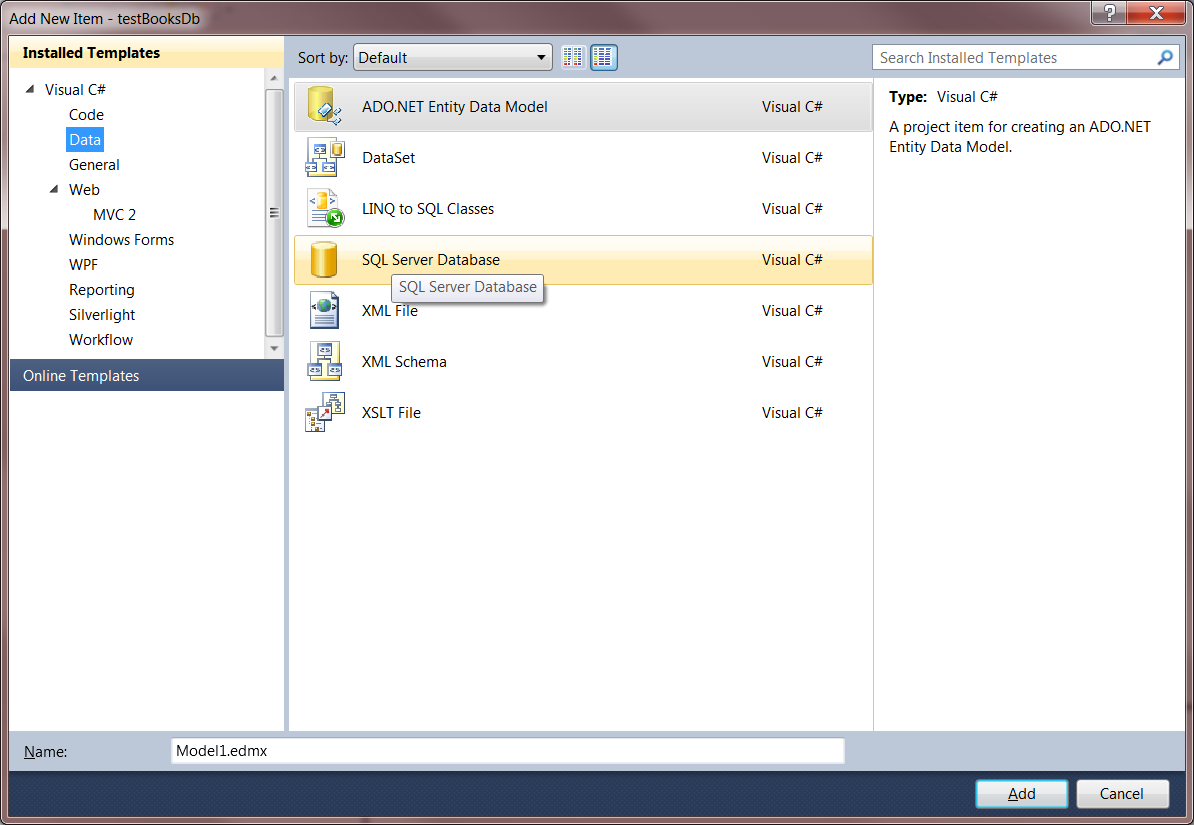
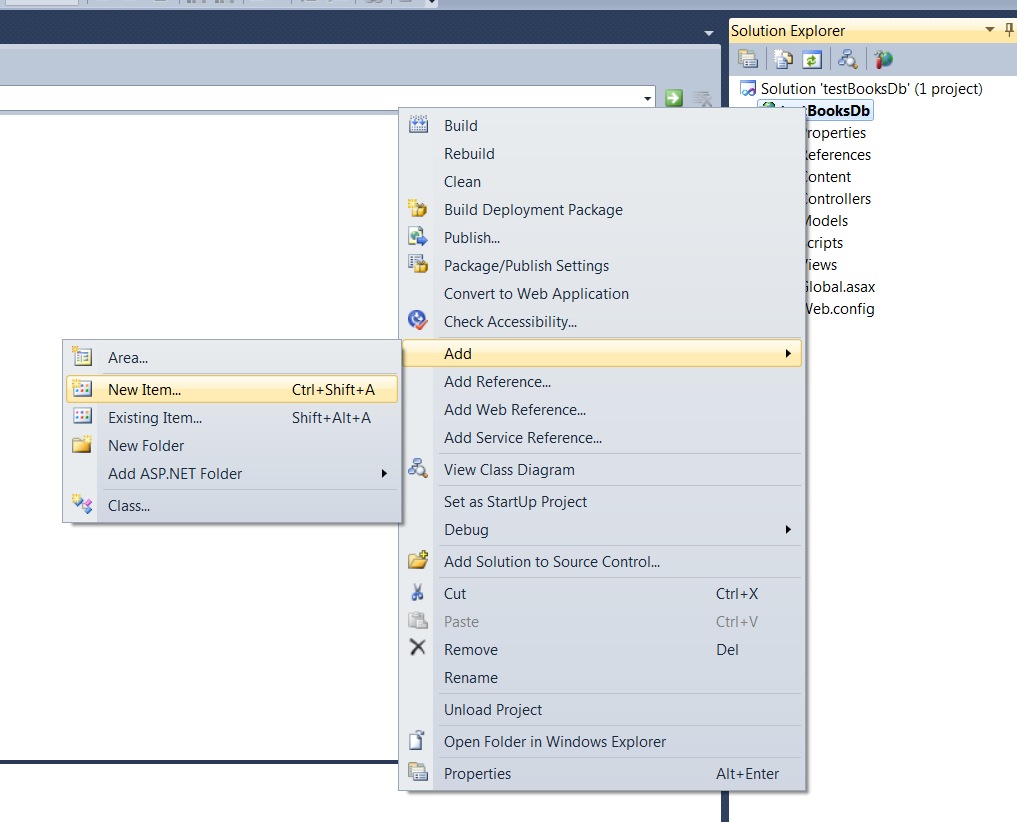
**Many-to-Many Data Modeling**

**An MVC Project**

**Jim Fawcett**

**CSE686 – Internet Programming**

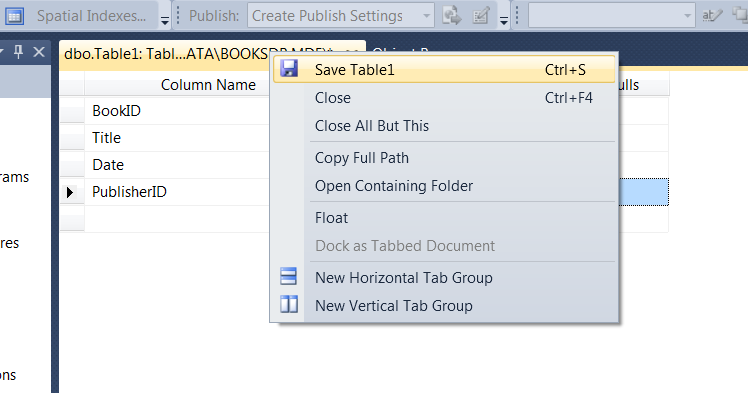
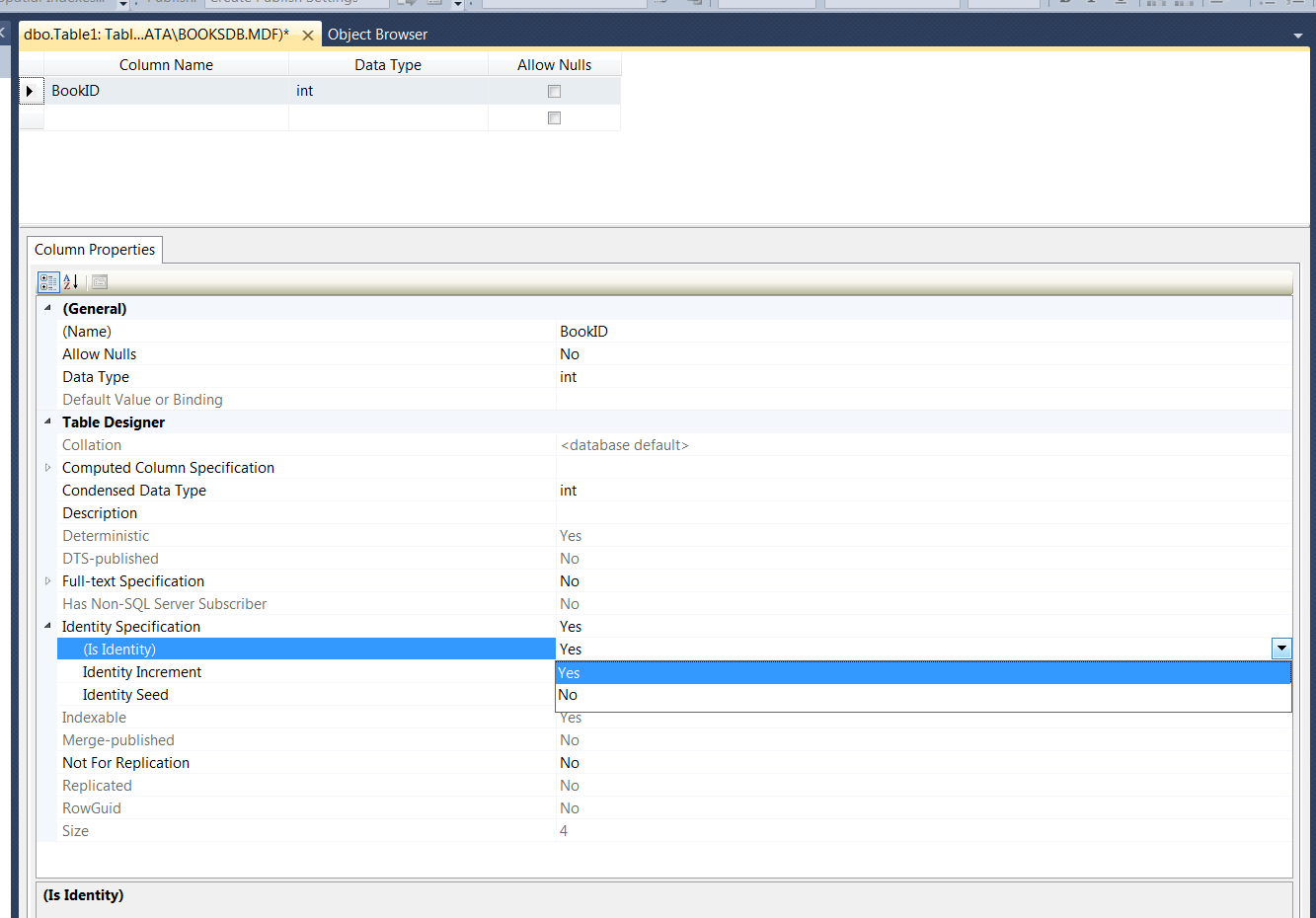
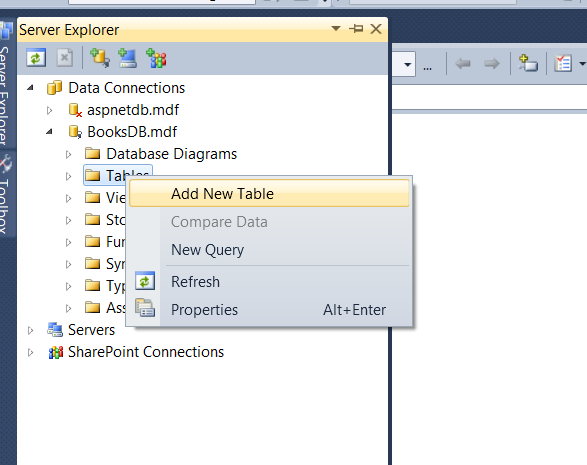
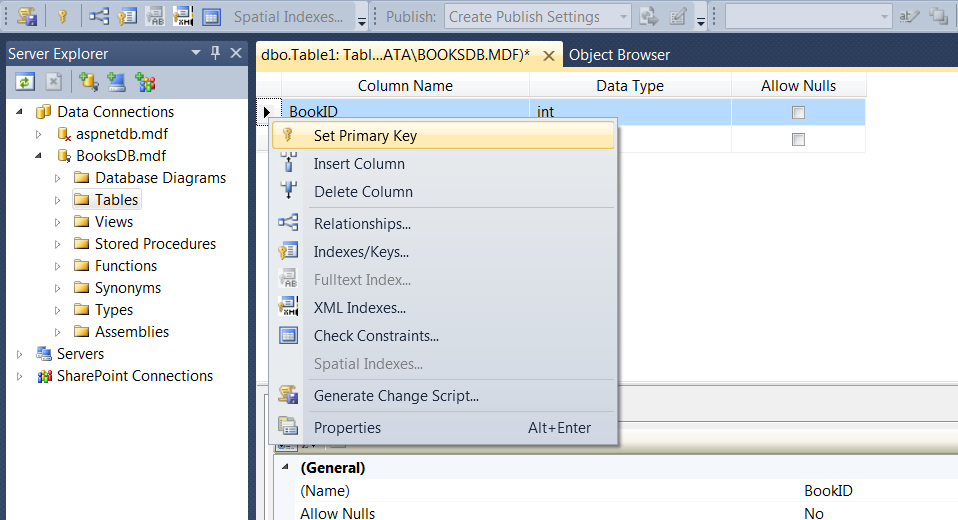
**Spring 2011**



Create Asp.Net MVC Project, then

Create Database using Server Explorer

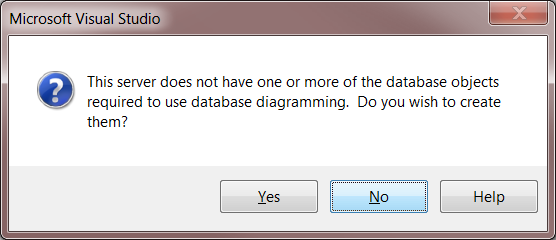
Add to App\_Data folder for easier deployment



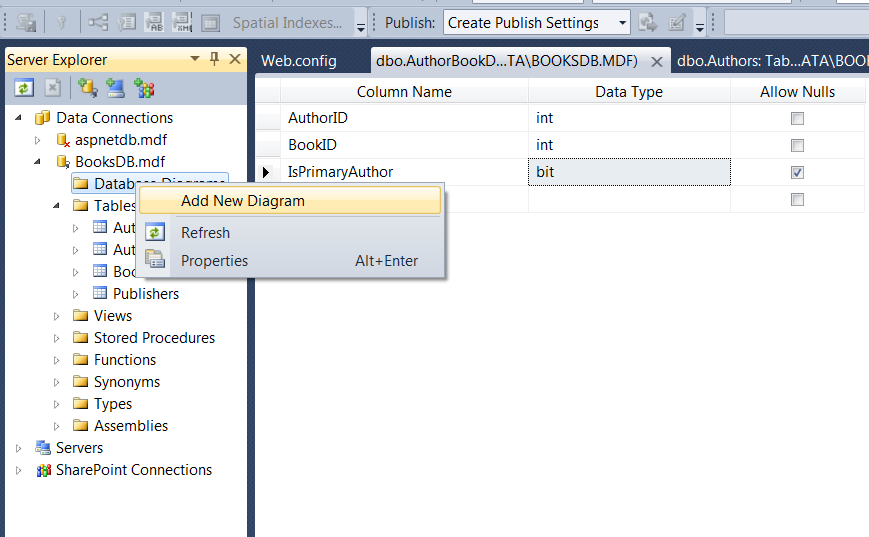
Now add tables to begin structuring the data model

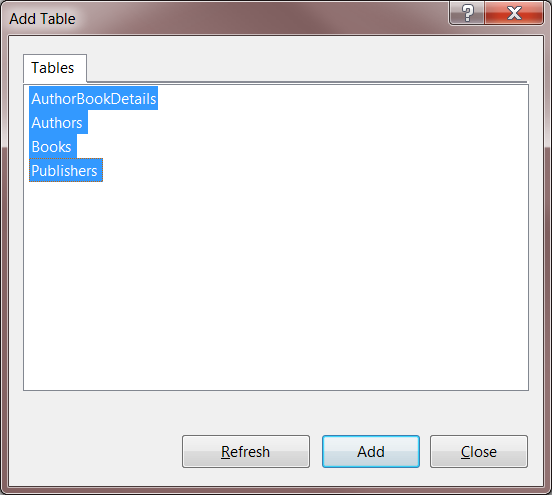
Note: You can’t save data to the db unless the table you want to save has a primary key

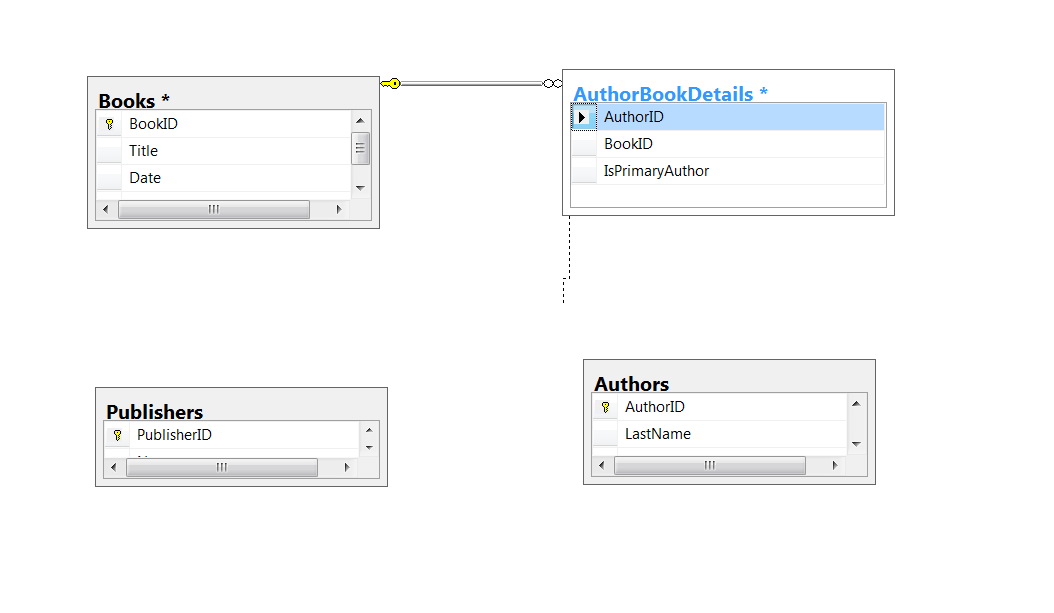
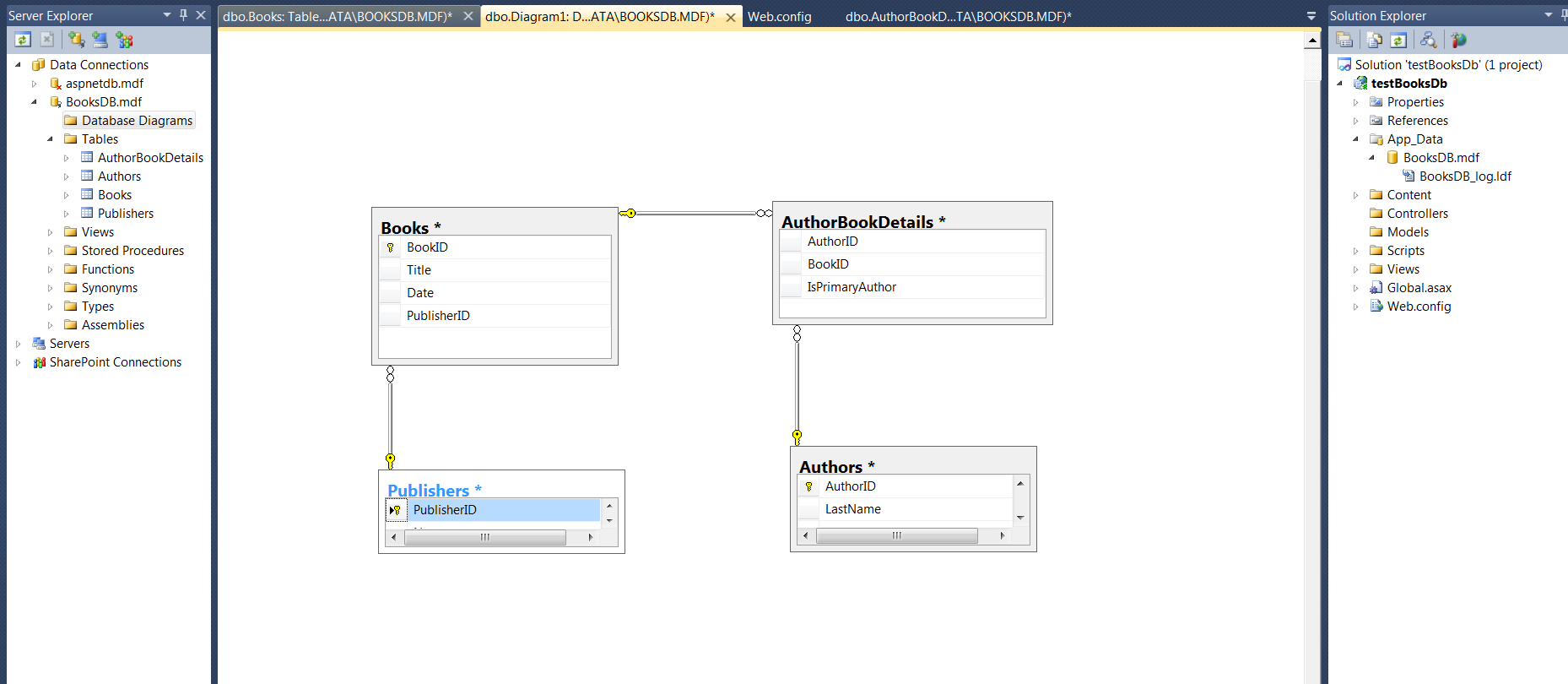
Don’t forget to make the Primary key an Identity type (autoincrement)



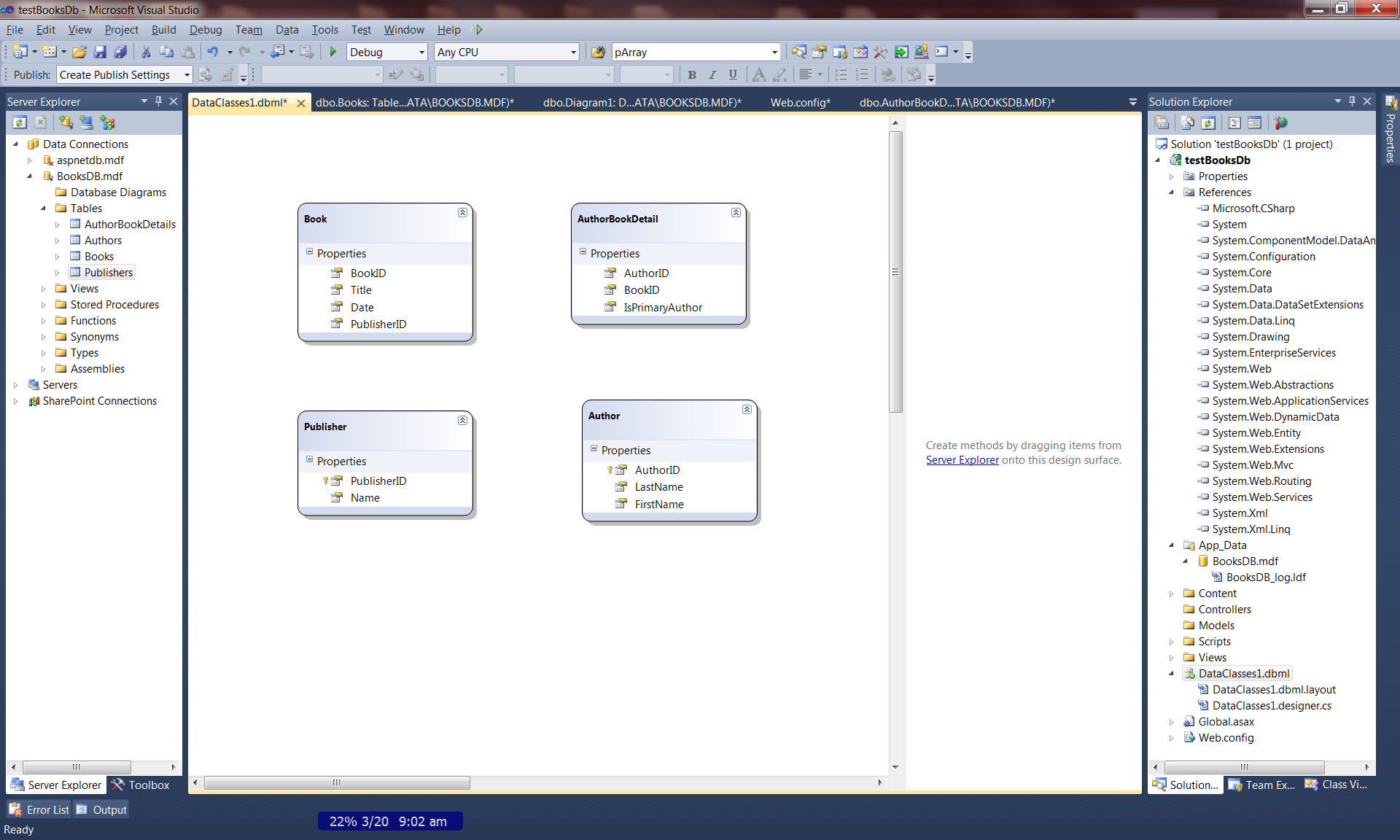
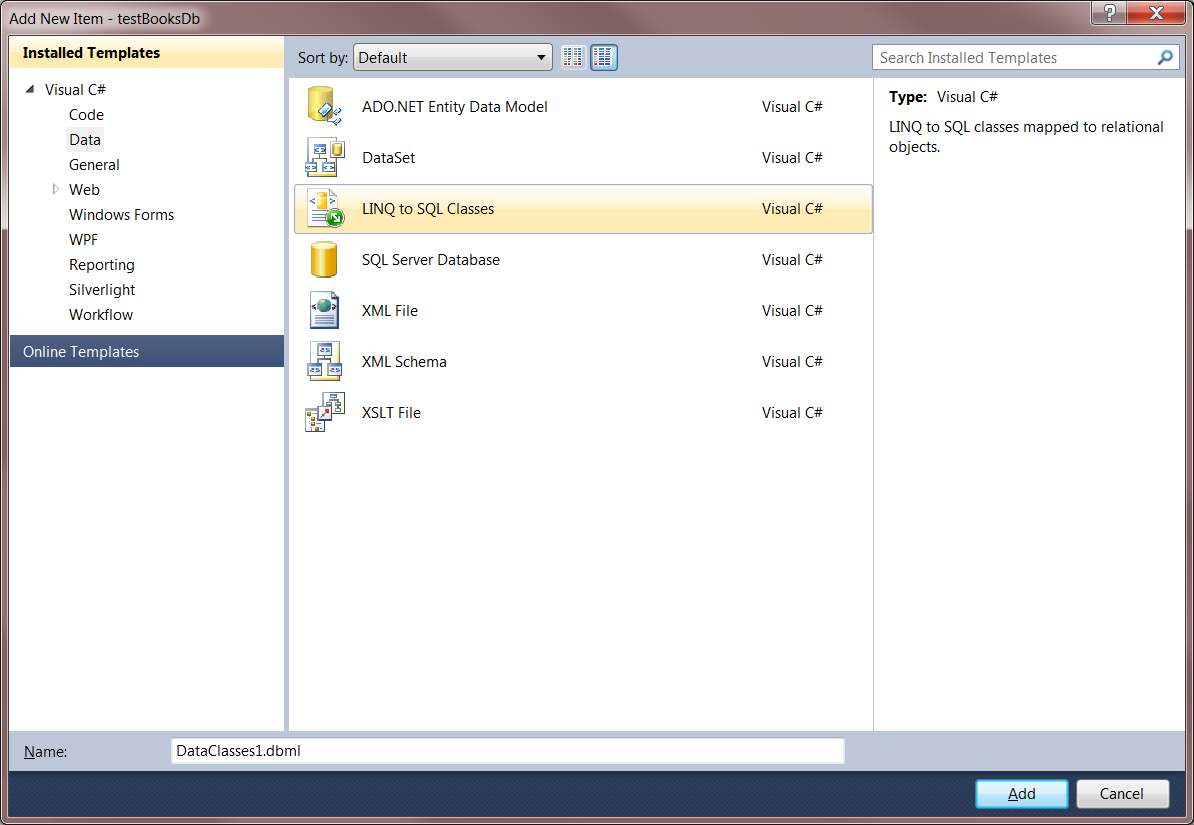
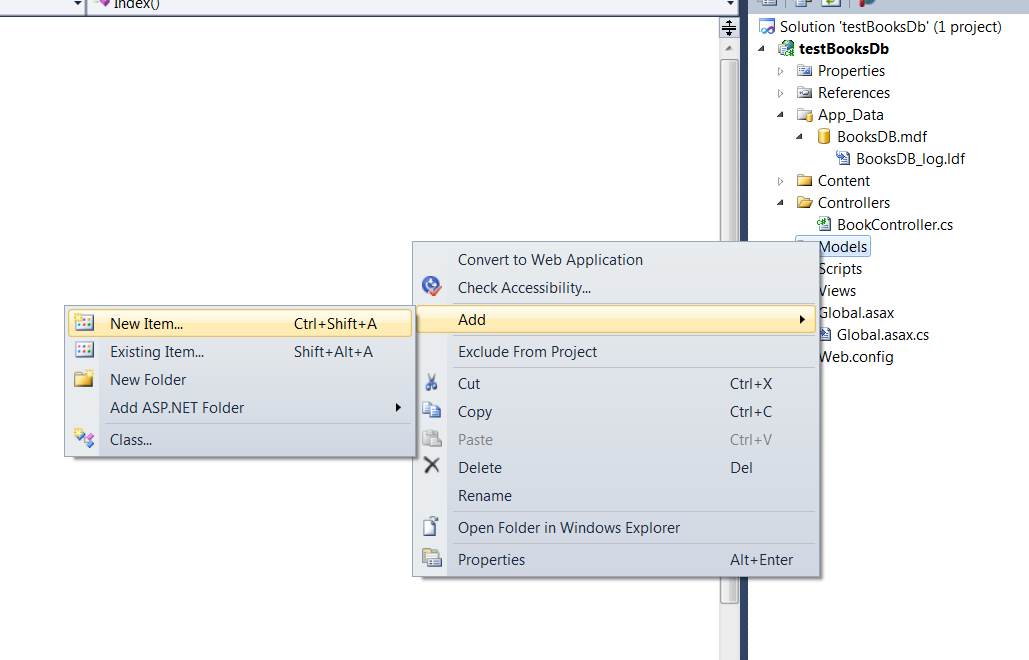
Create a Database Diagram. That gives you an easy way to define relationships.





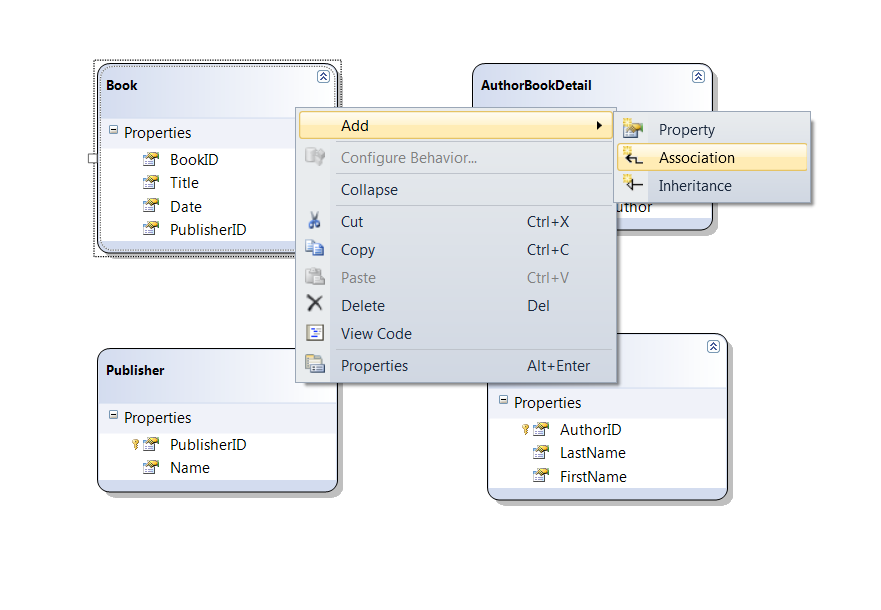
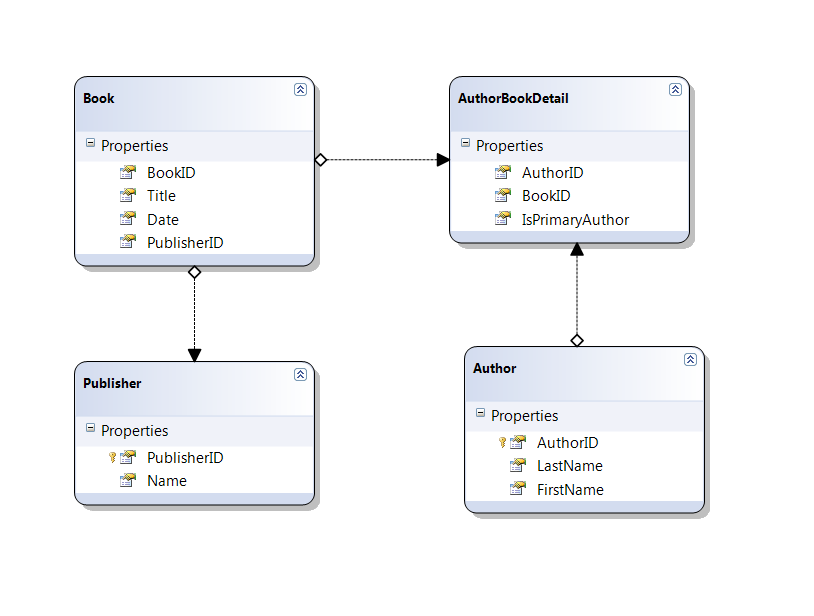


You create a relationship by dragging a key from child to parent.



Now, we’ll add LINQ to SQL classes by adding a DataContext

Pull the tables from Server Explorer onto the designer surface, as show here.



Add Associations (relationships). The designer doesn’t do that for you.

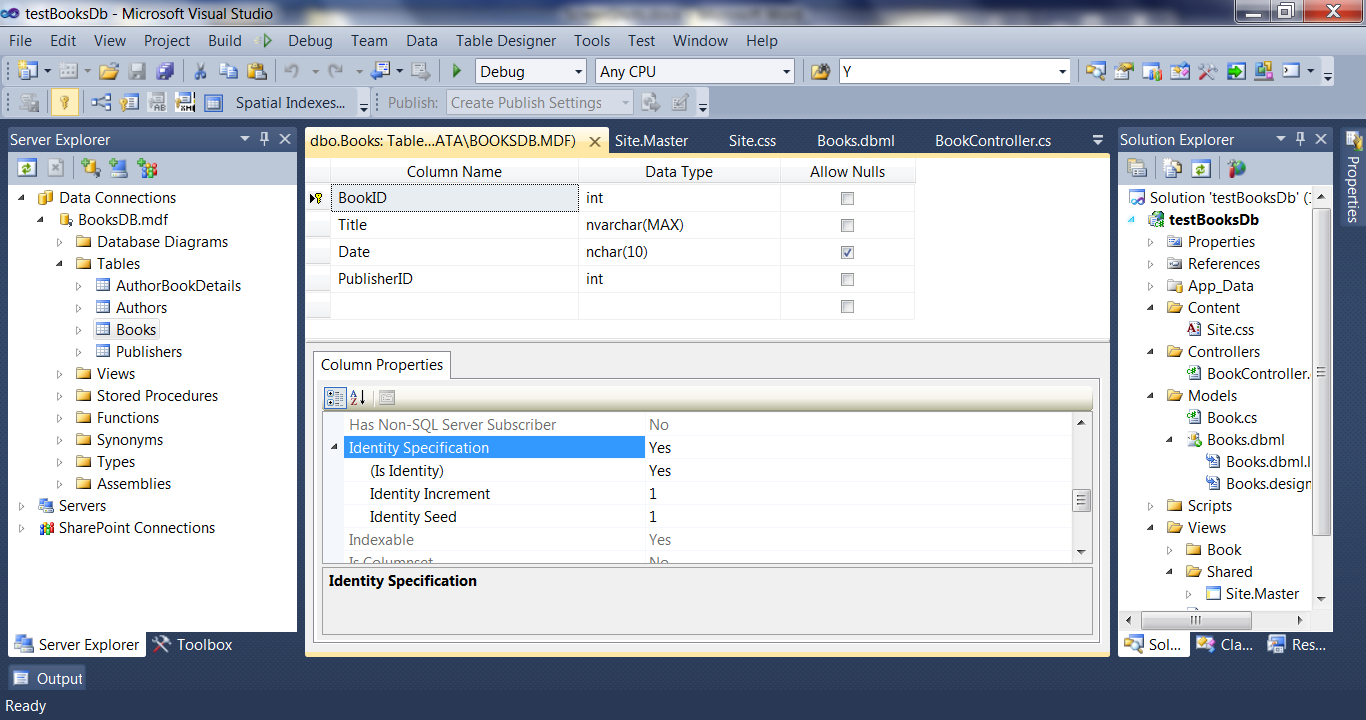
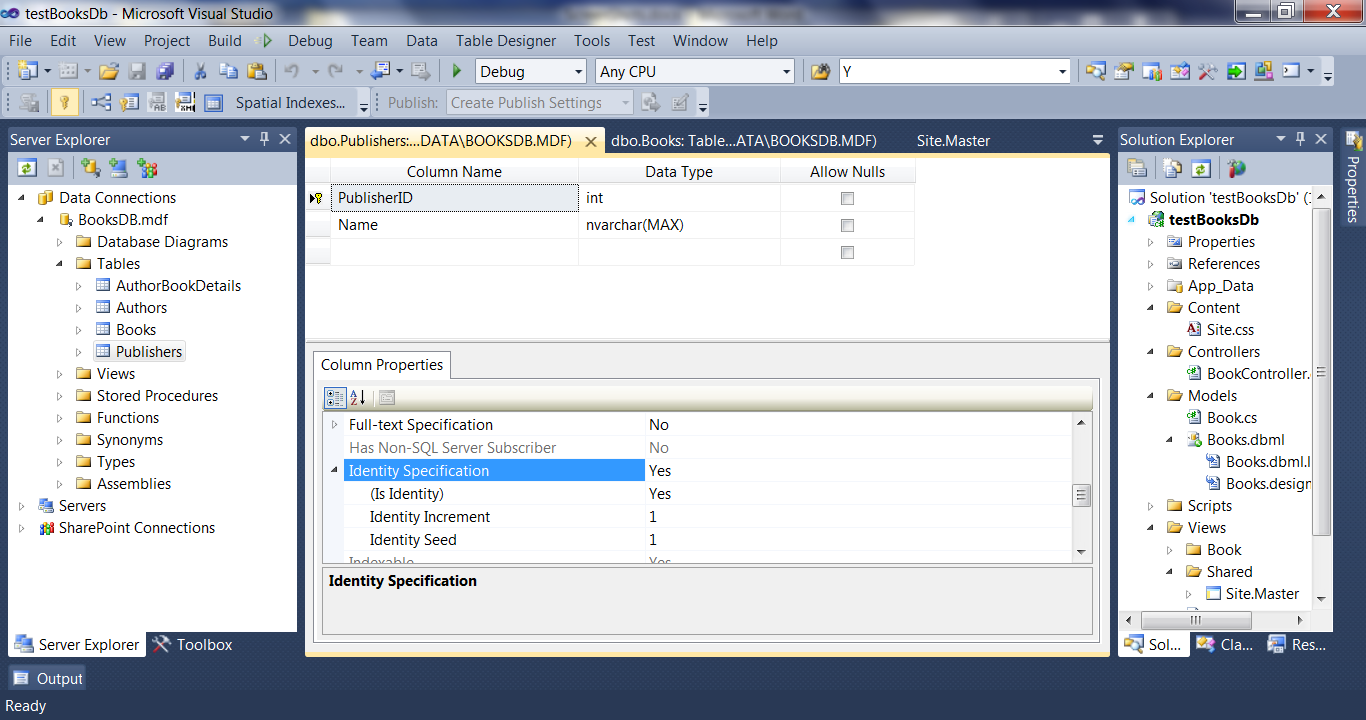
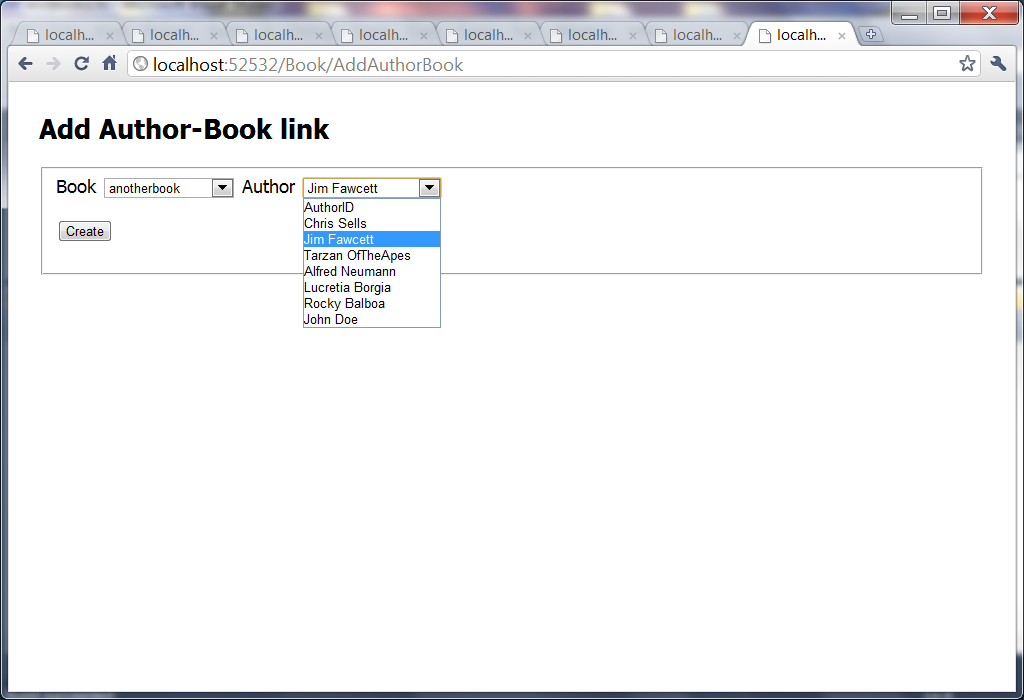
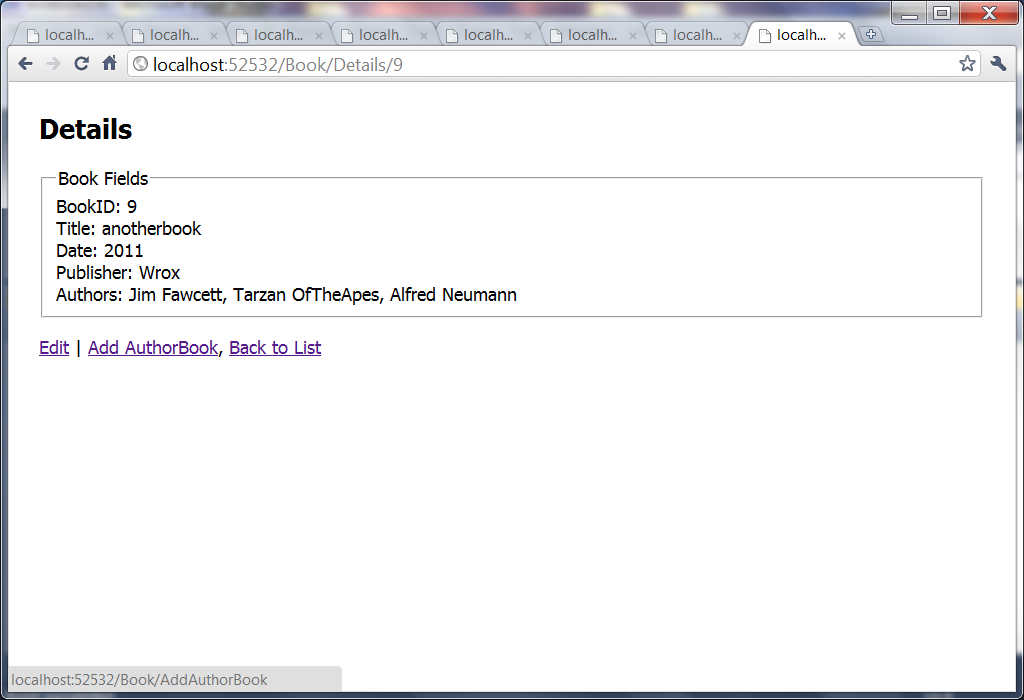
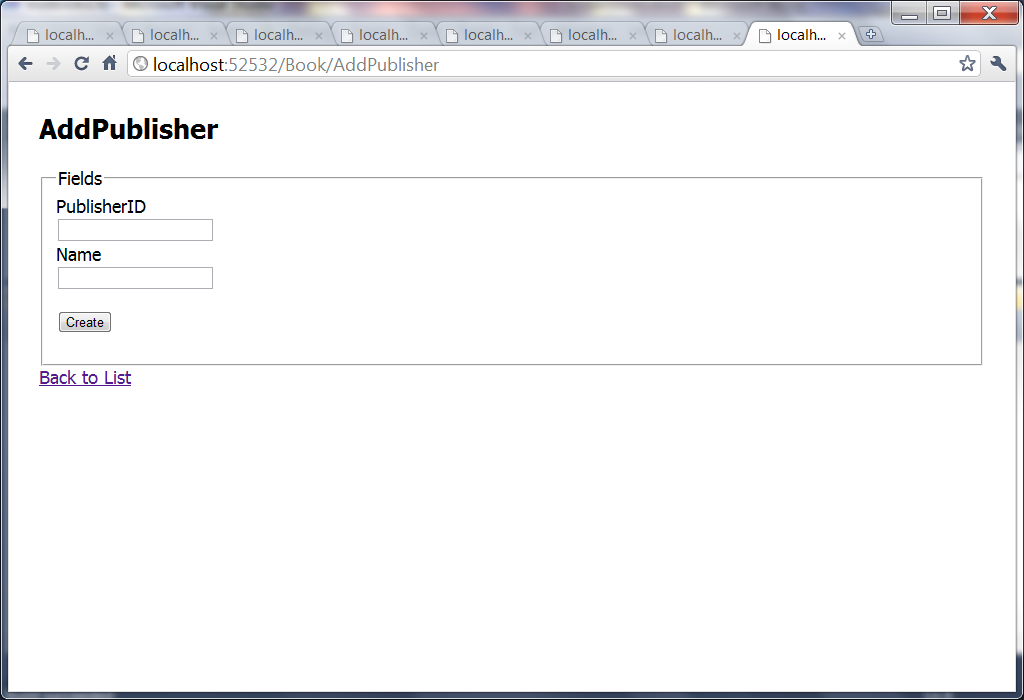
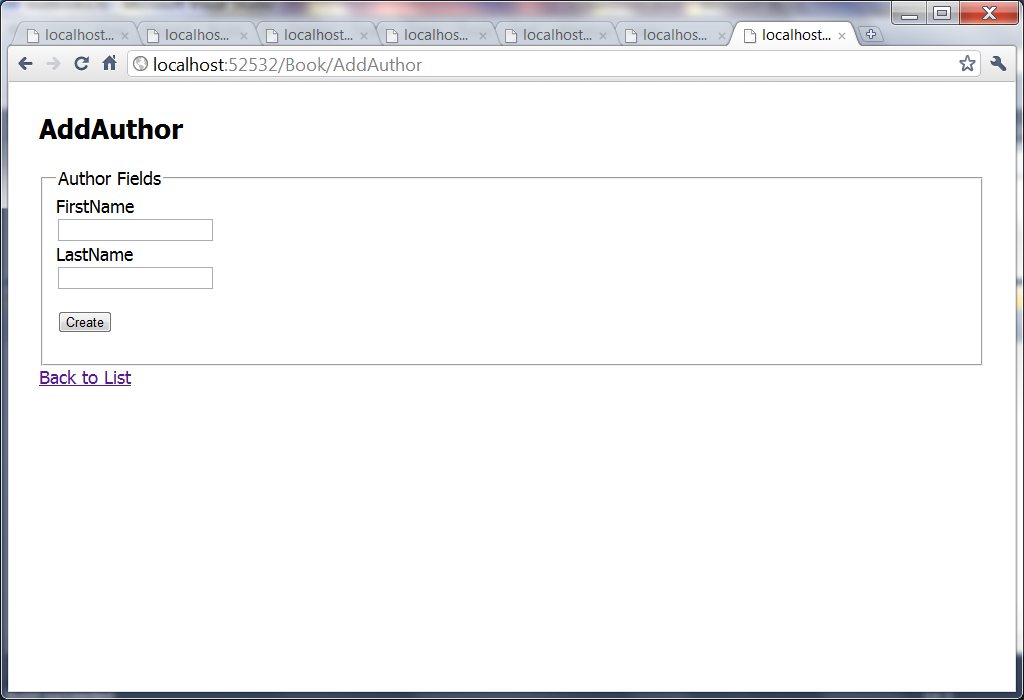
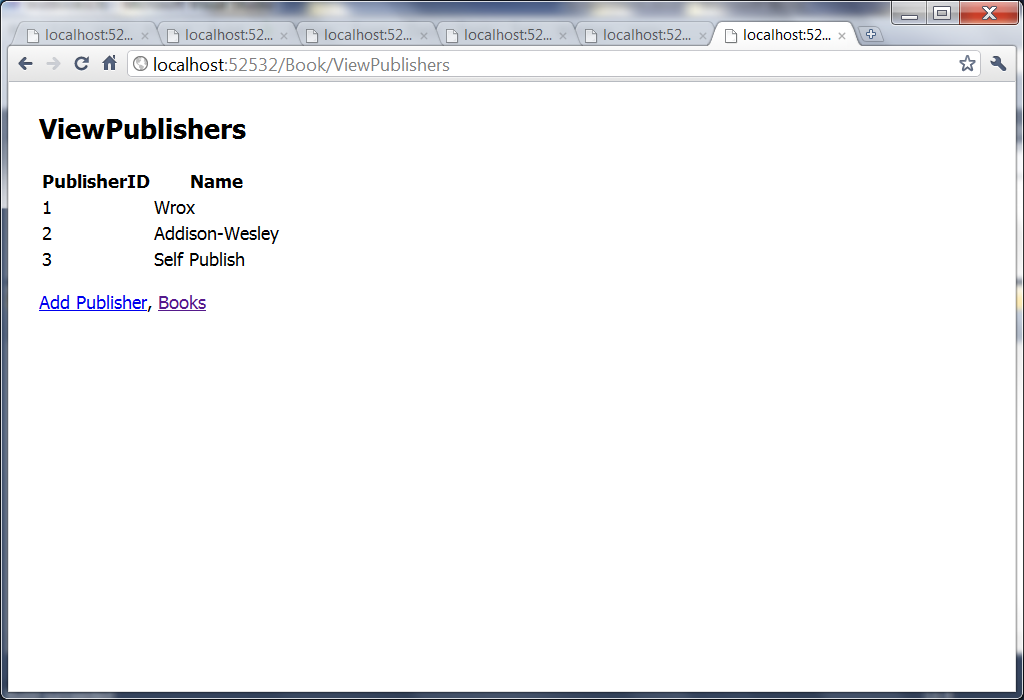
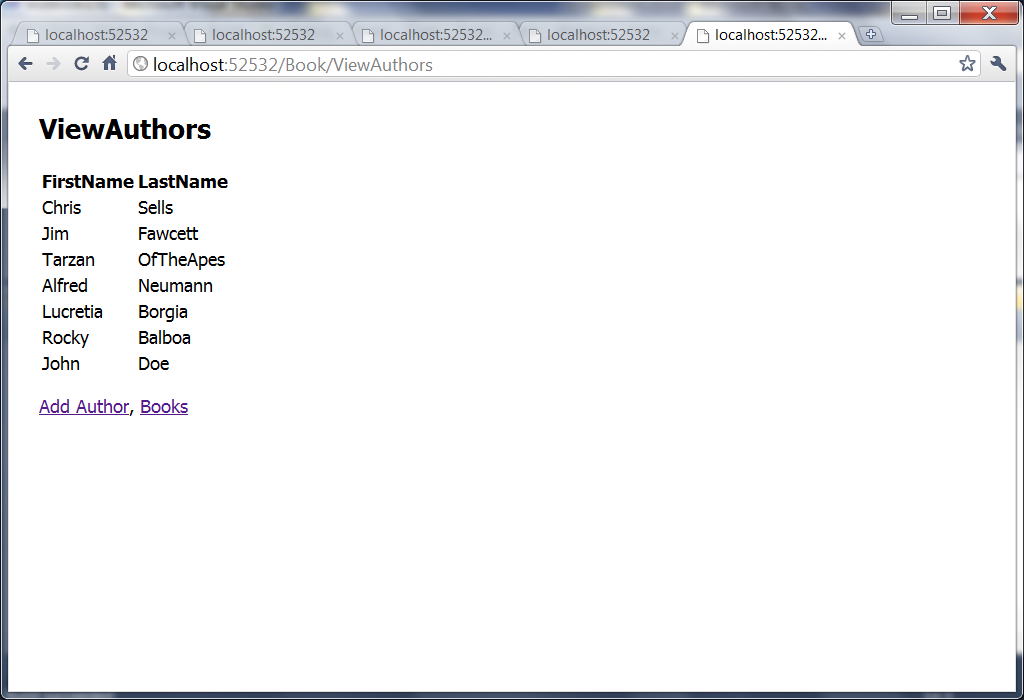
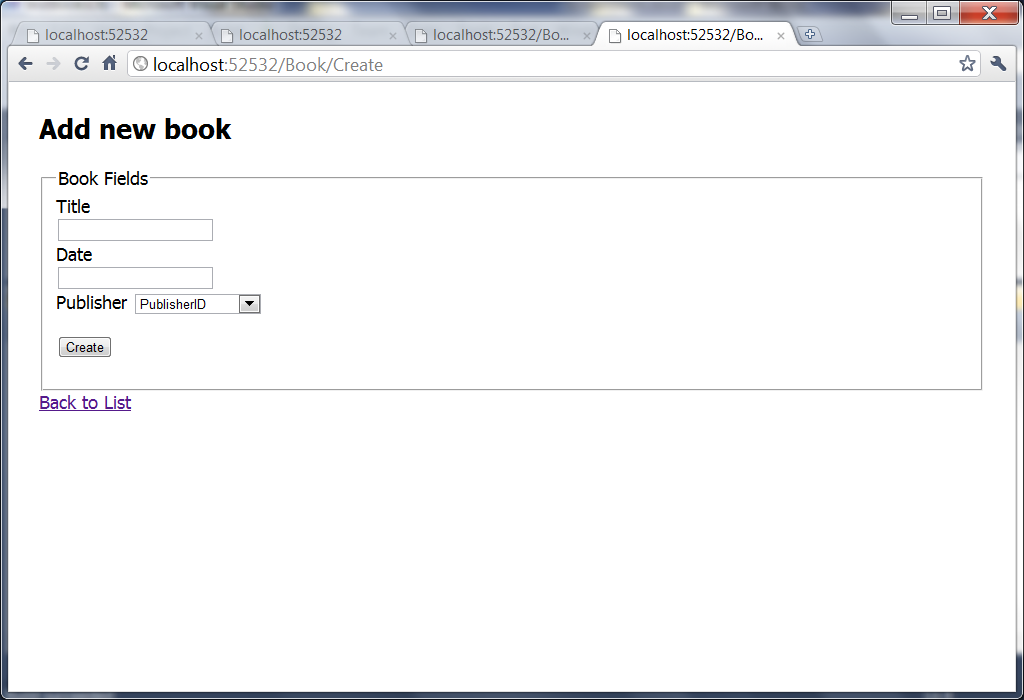
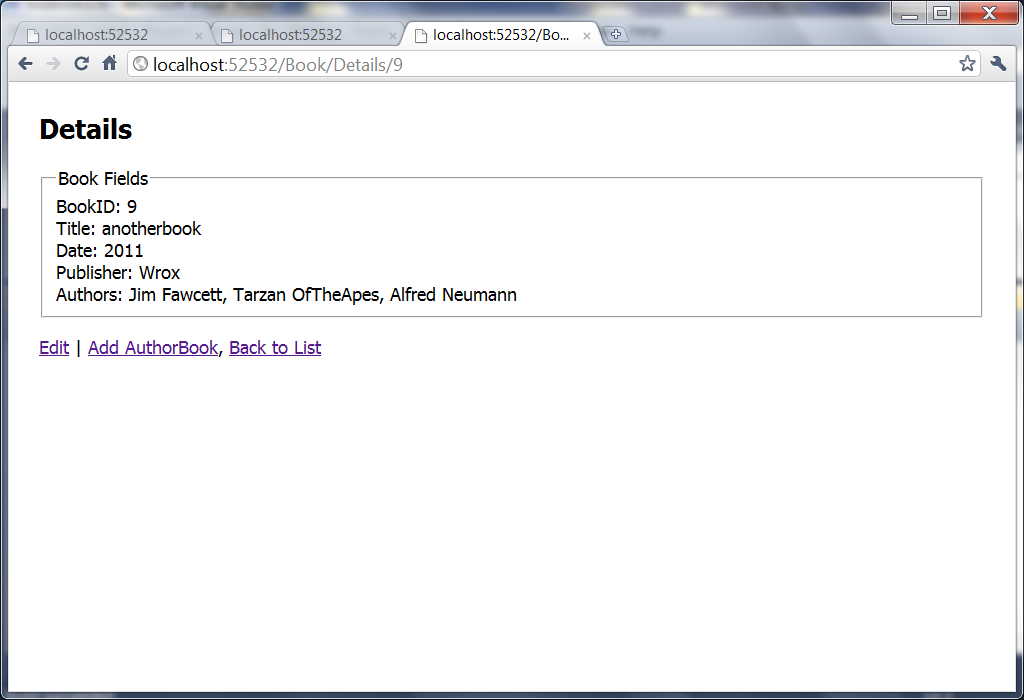
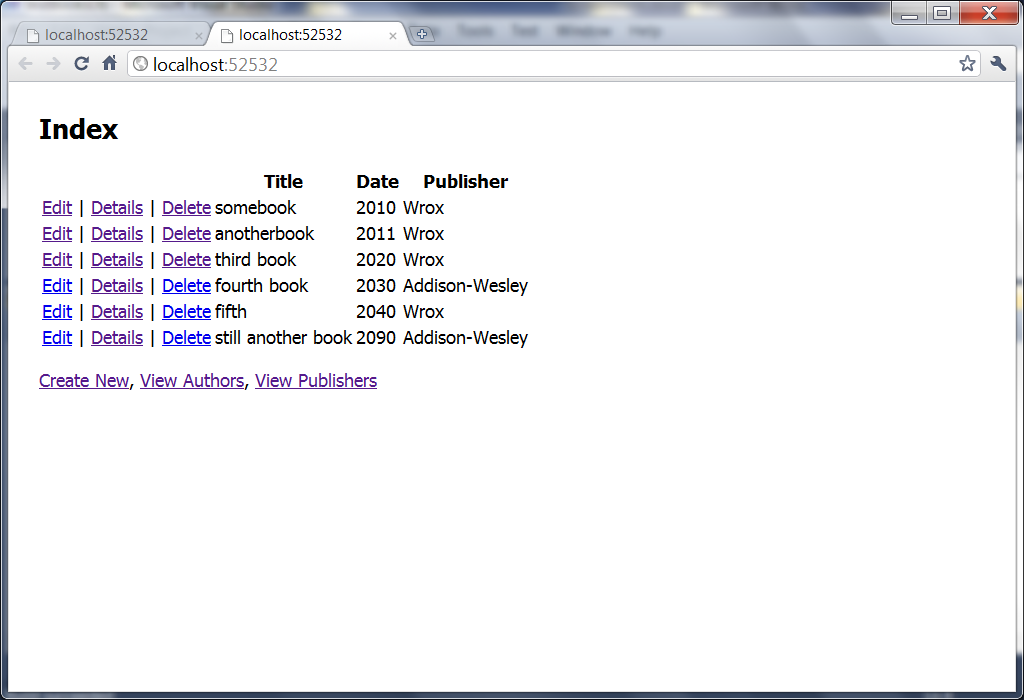
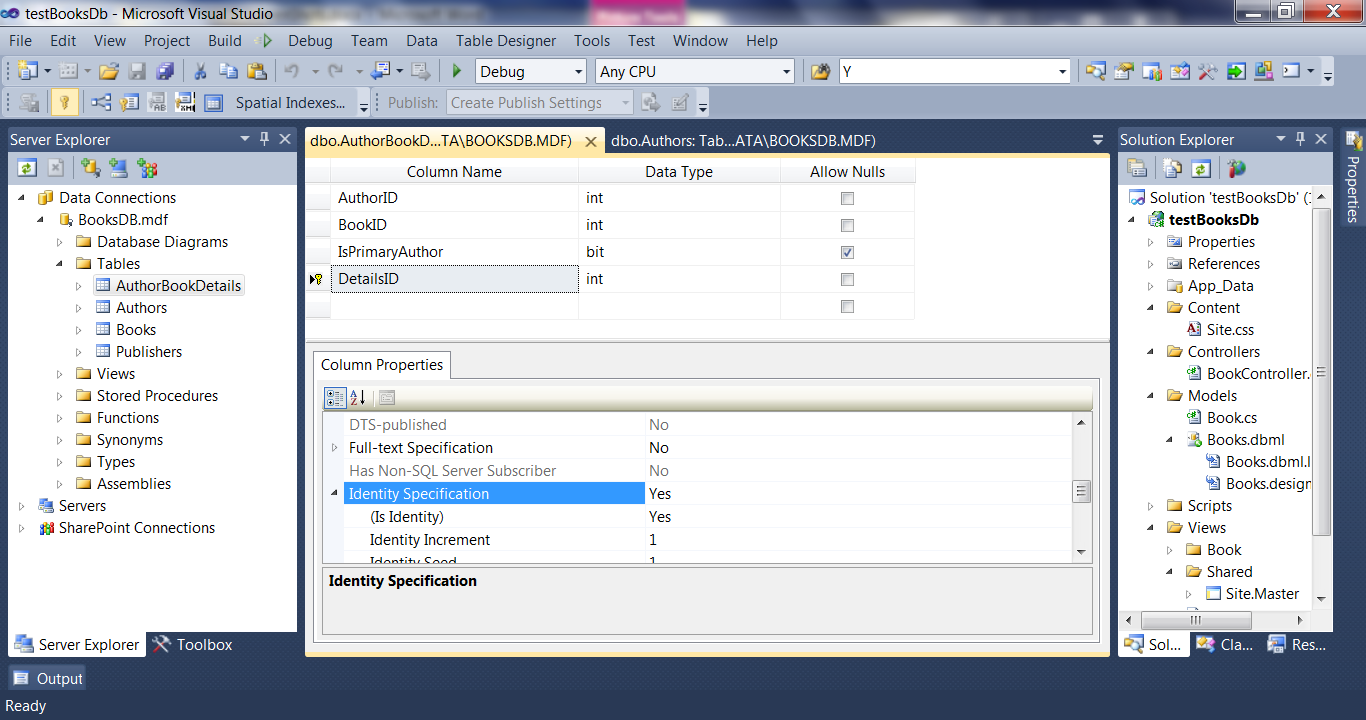
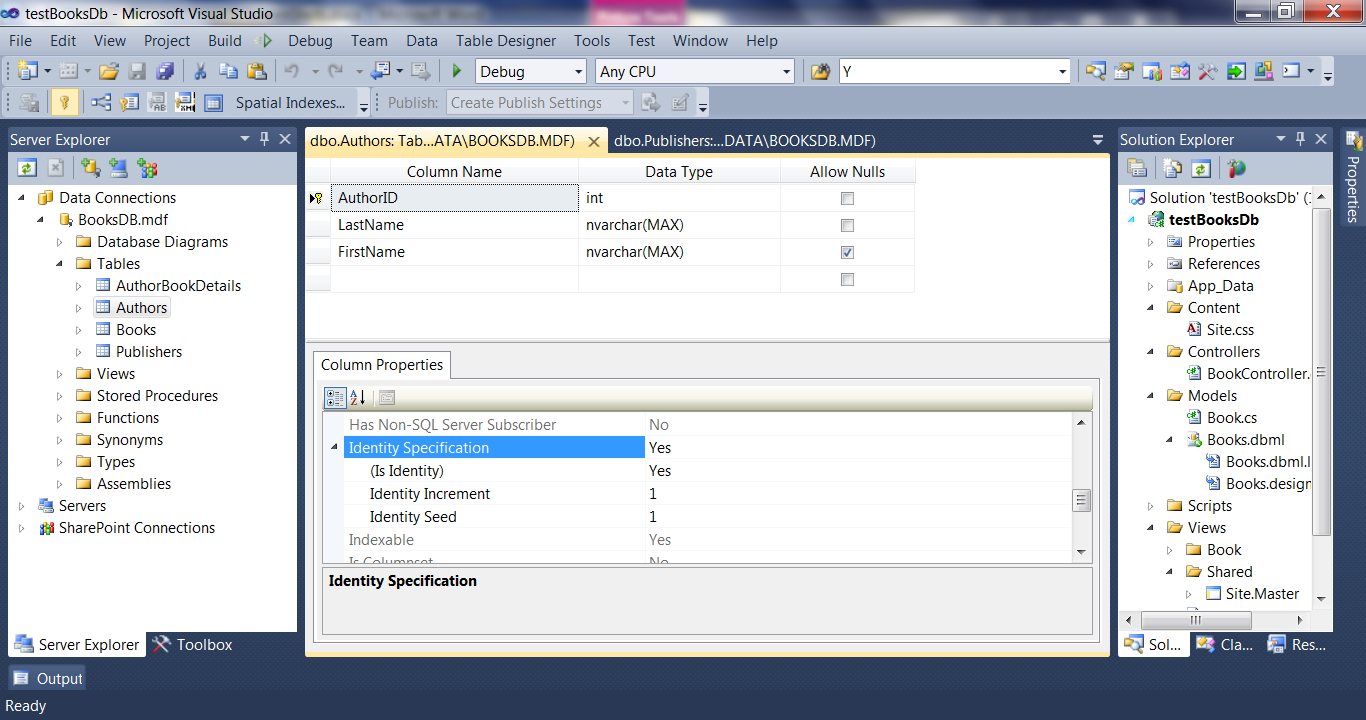


Table Schemas are shown on this and the next page.



Authors come from a query into the many to many relationship.

We can add links to the many-to-many relationship here. Some of the required queries are non-trivial.