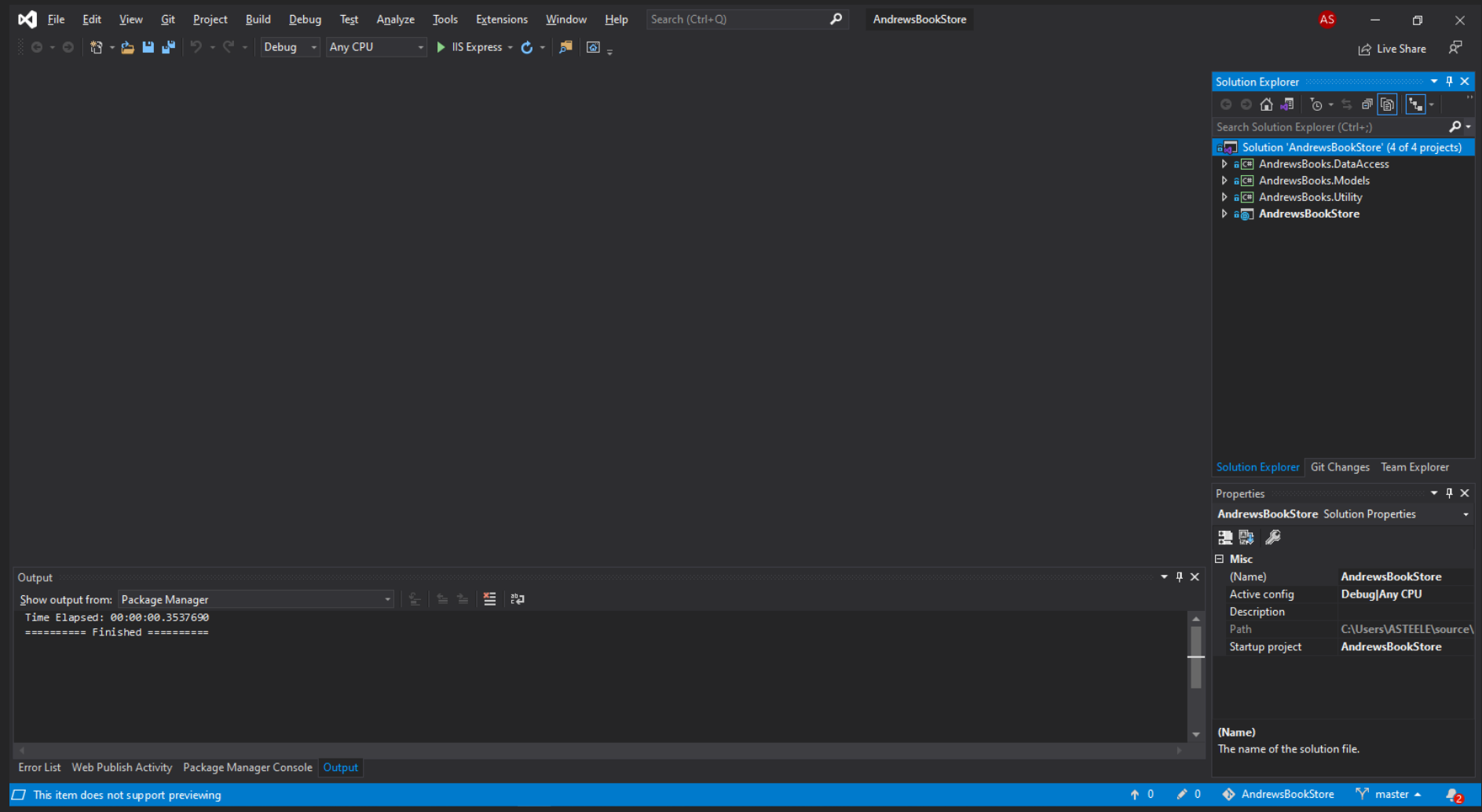
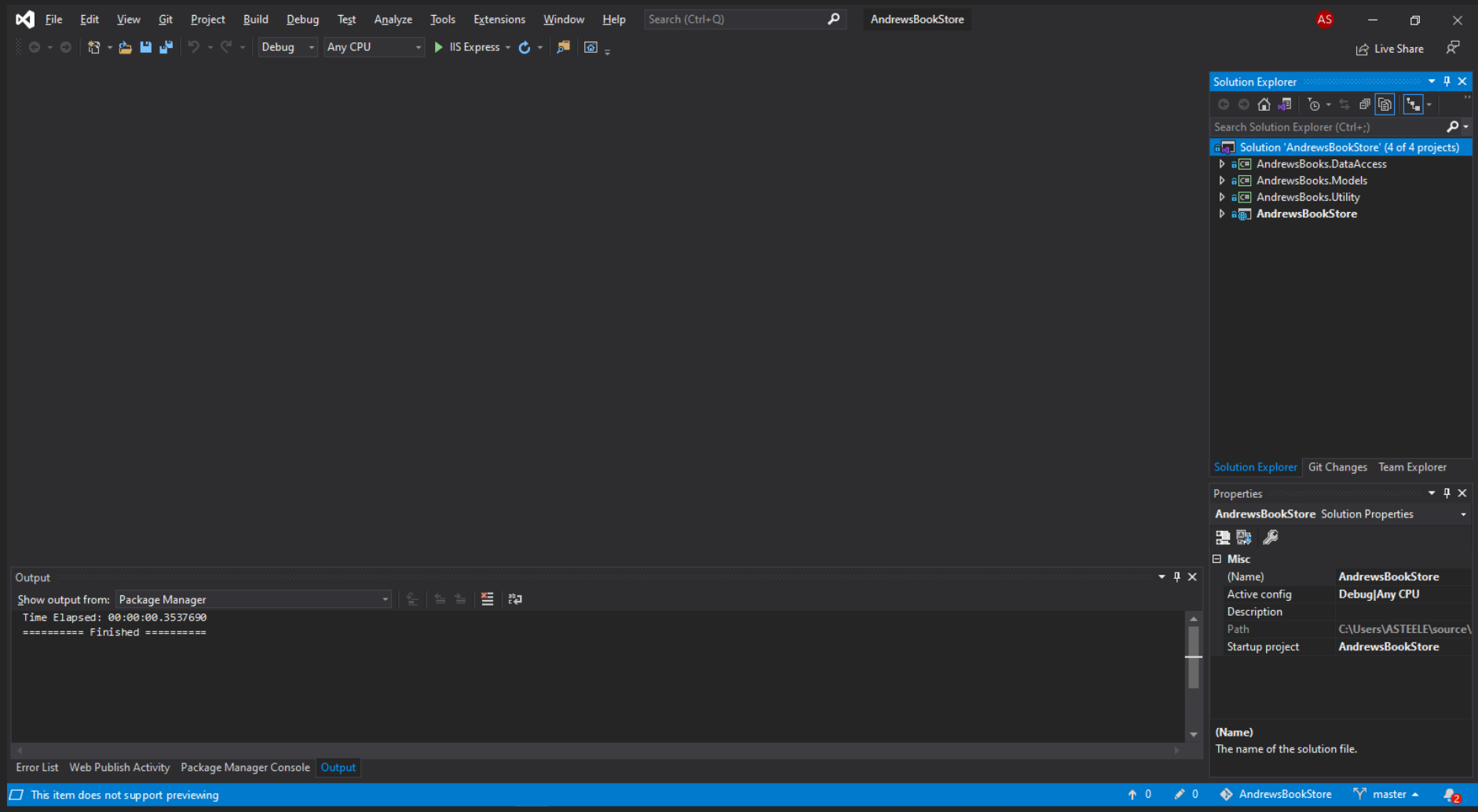
Build the Project (Part 2)

2.1 Create the DB


File Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help
Search (Ctrl+Q)
AndrewsBookStore
Debug
Any CPU
IIS Express
Live Share
Solution Explorer
Search Solution Explorer (Ctrl+;)
Solution 'AndrewsBookStore' (4 of 4 projects)
AndrewsBooks.DataAccess
AndrewsBooks.Models
AndrewsBooks.Utility
AndrewsBookStore
Solution Explorer
Git Changes
Team Explorer
Properties
AndrewsBookStore Solution Properties
Misc
(Name) AndrewsBookStore
Active config Debug|Any CPU
Description
Path C:\Users\ASTEELE\source\
Startup project AndrewsBookStore
(Name)
The name of the solution file.
Output
Show output from: Package Manager
Time Elapsed: 00:00:00.3537690
========== Finished ==========
Error List
Web Publish Activity
Package Manager Console
Output
This item does not support previewing
0
0
AndrewsBookStore
master

- To prepare for the next part, ‘build’ the application and confirm there are no errors



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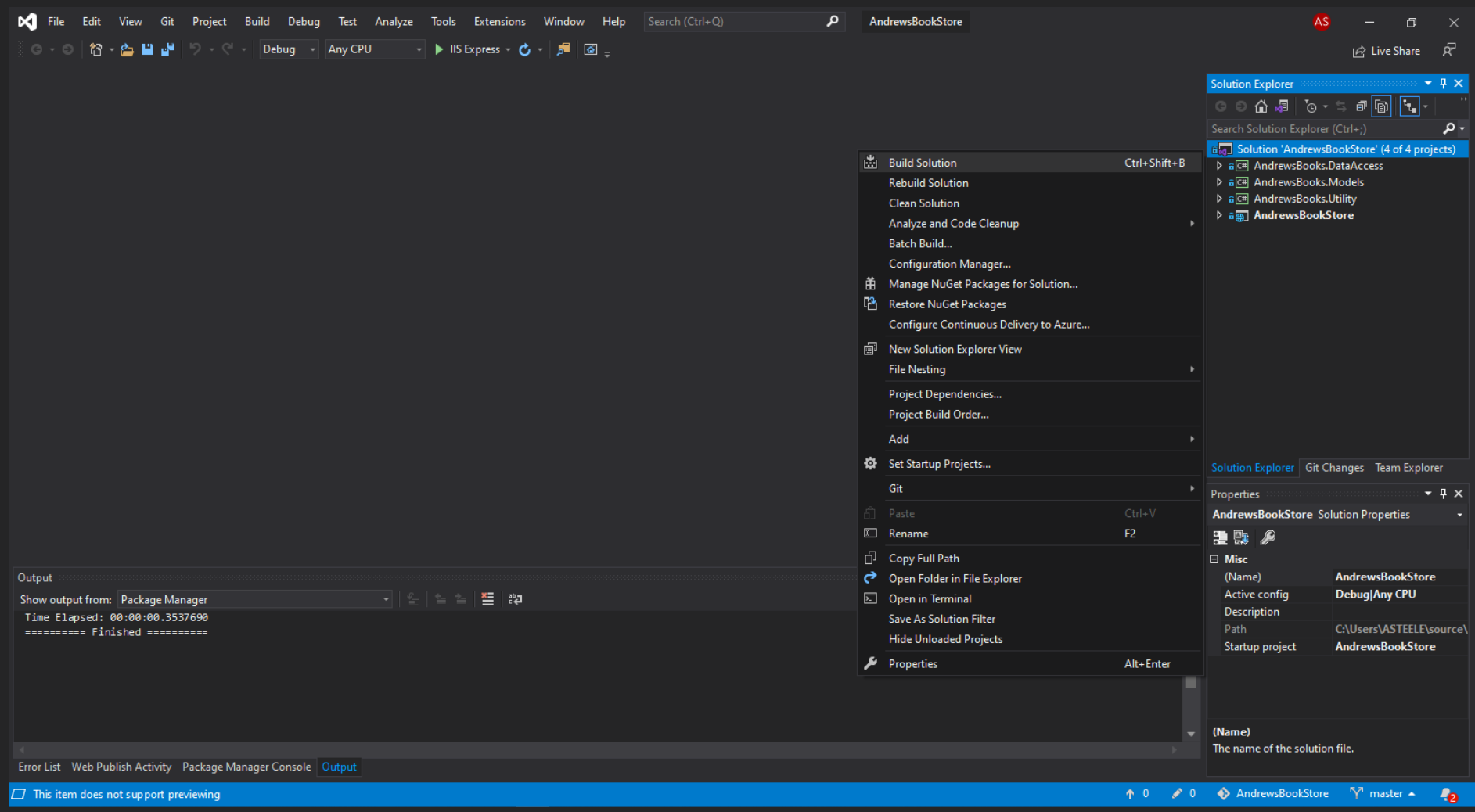

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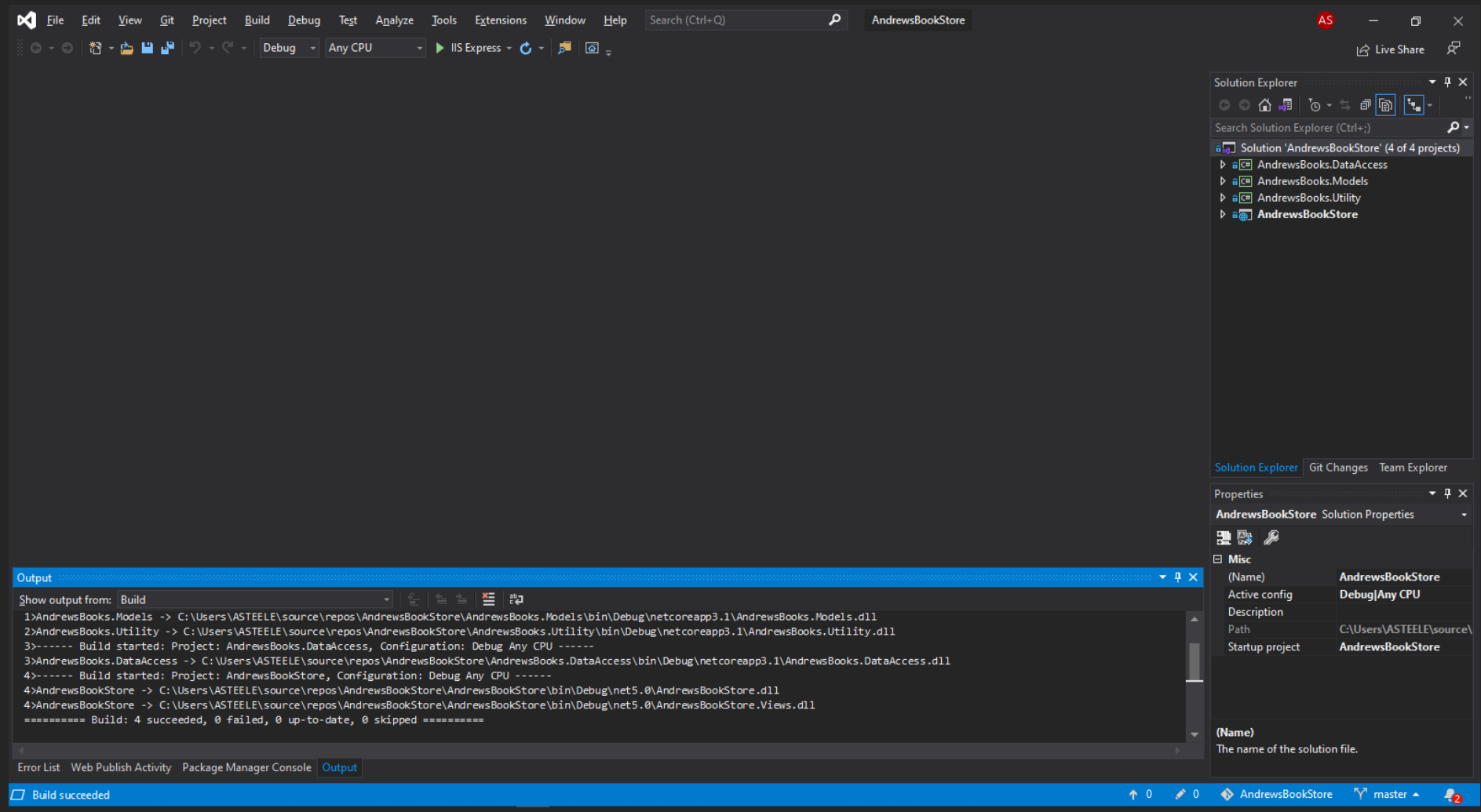

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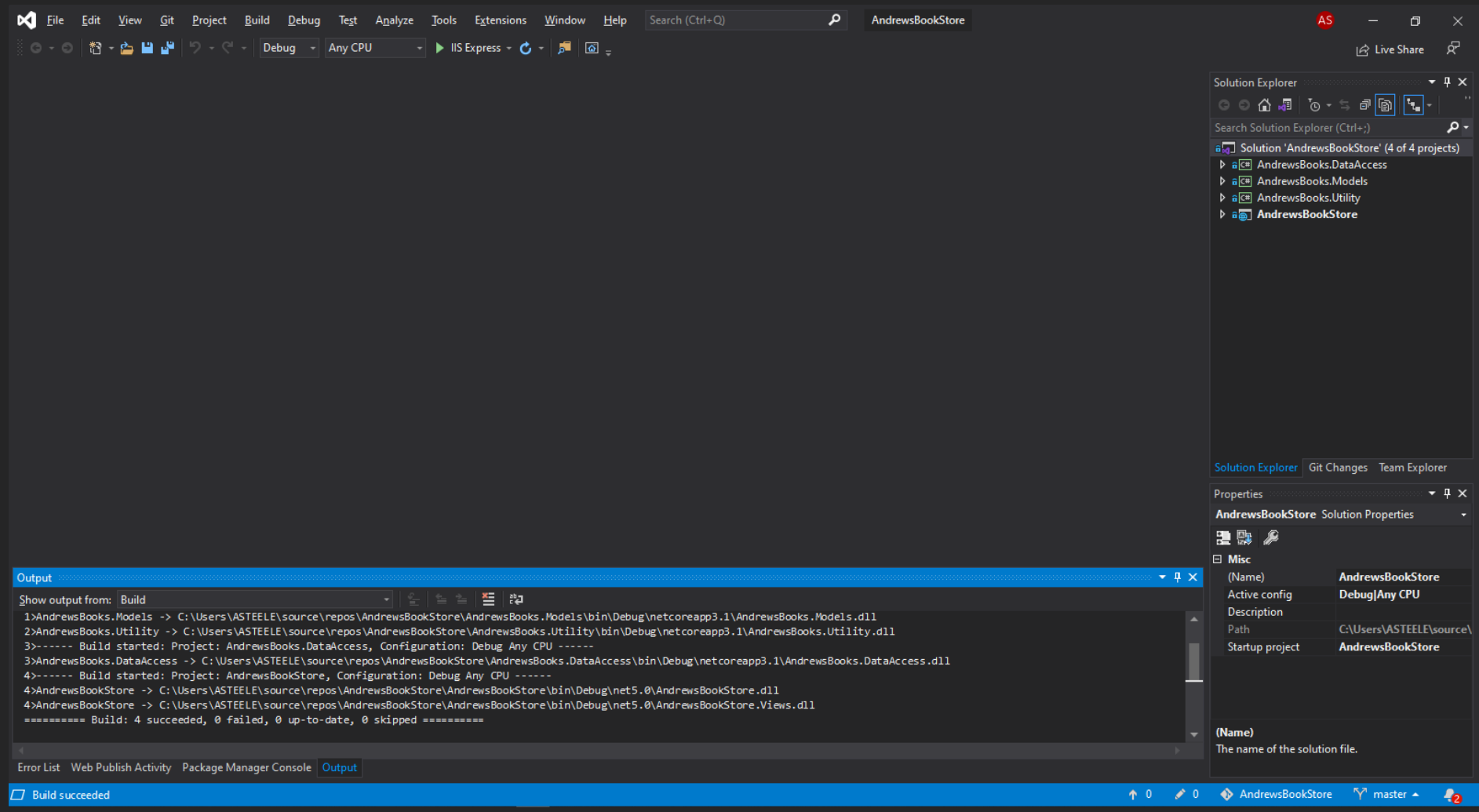
- Review appsettings.json



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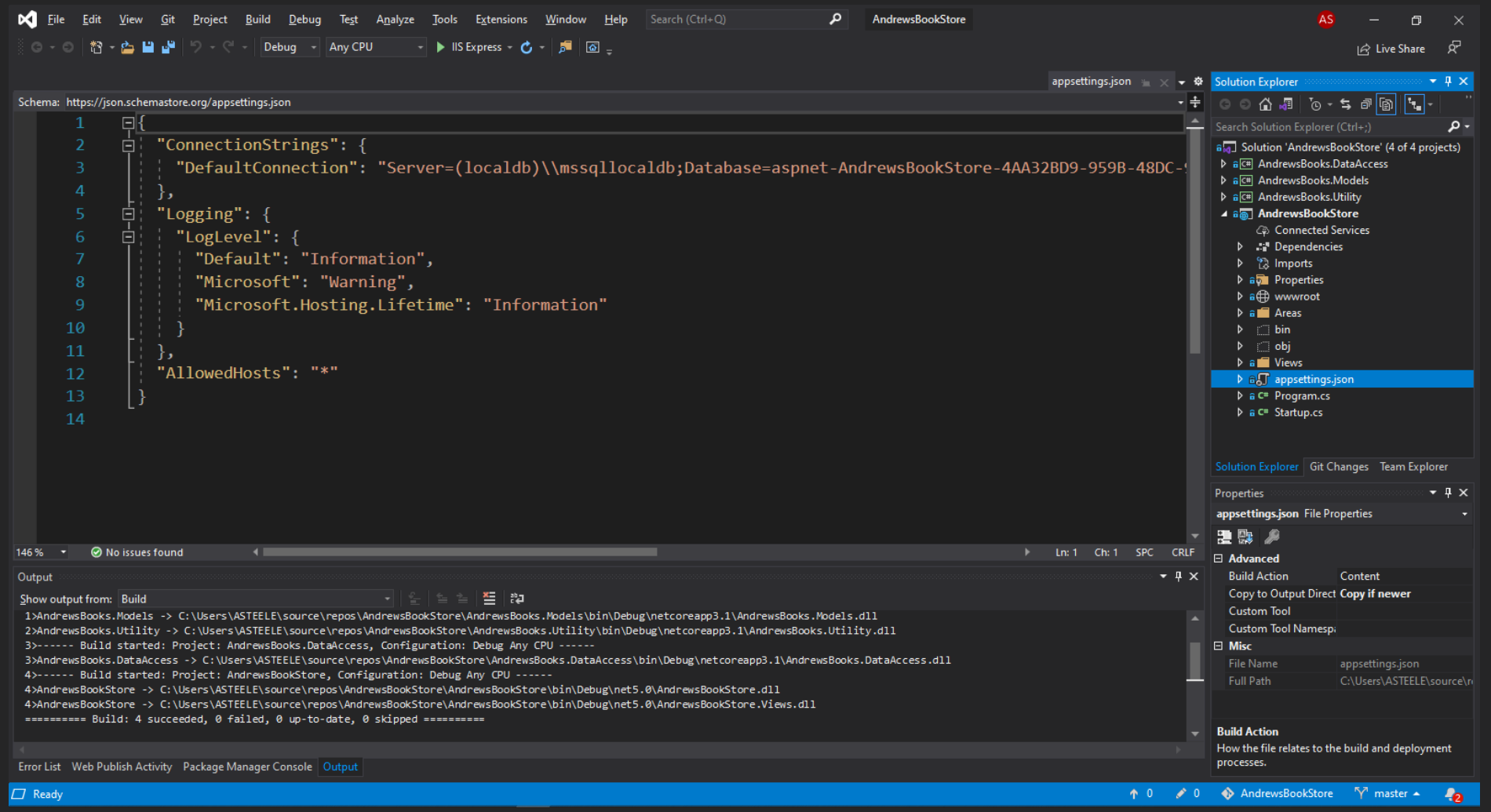

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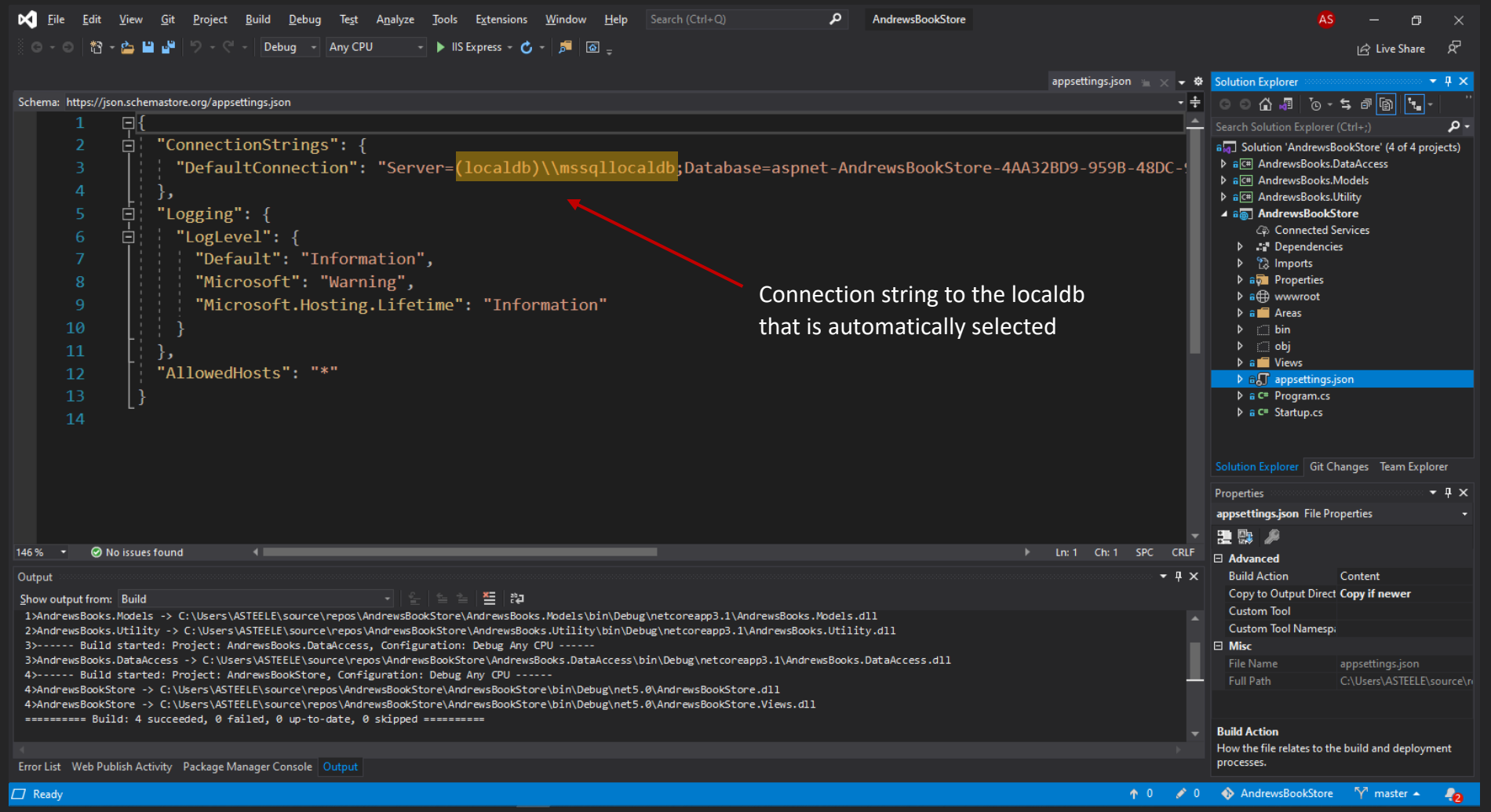

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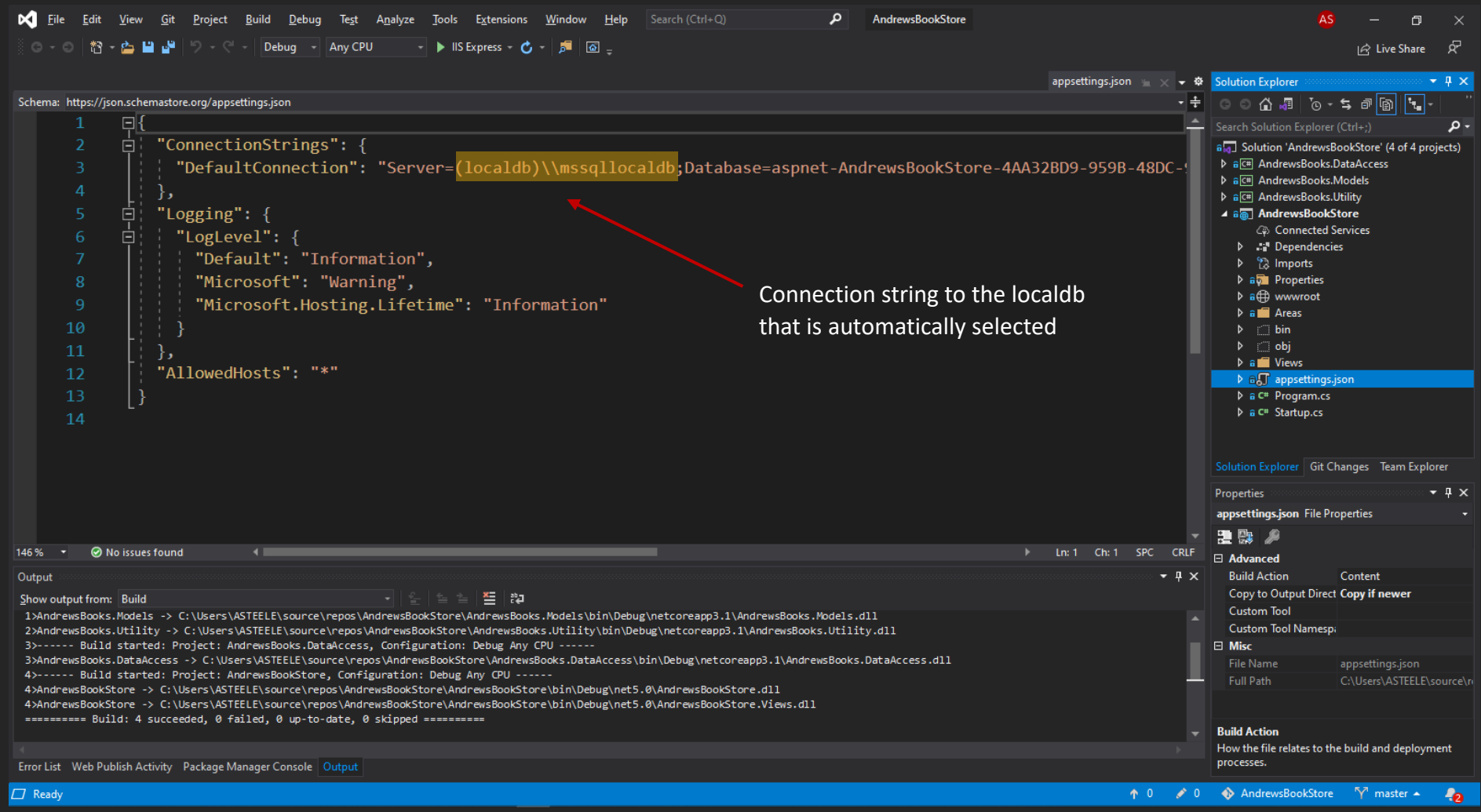
- Create the migrations (using code-first, where changes are “pushed” to the database), modify the database name and save.



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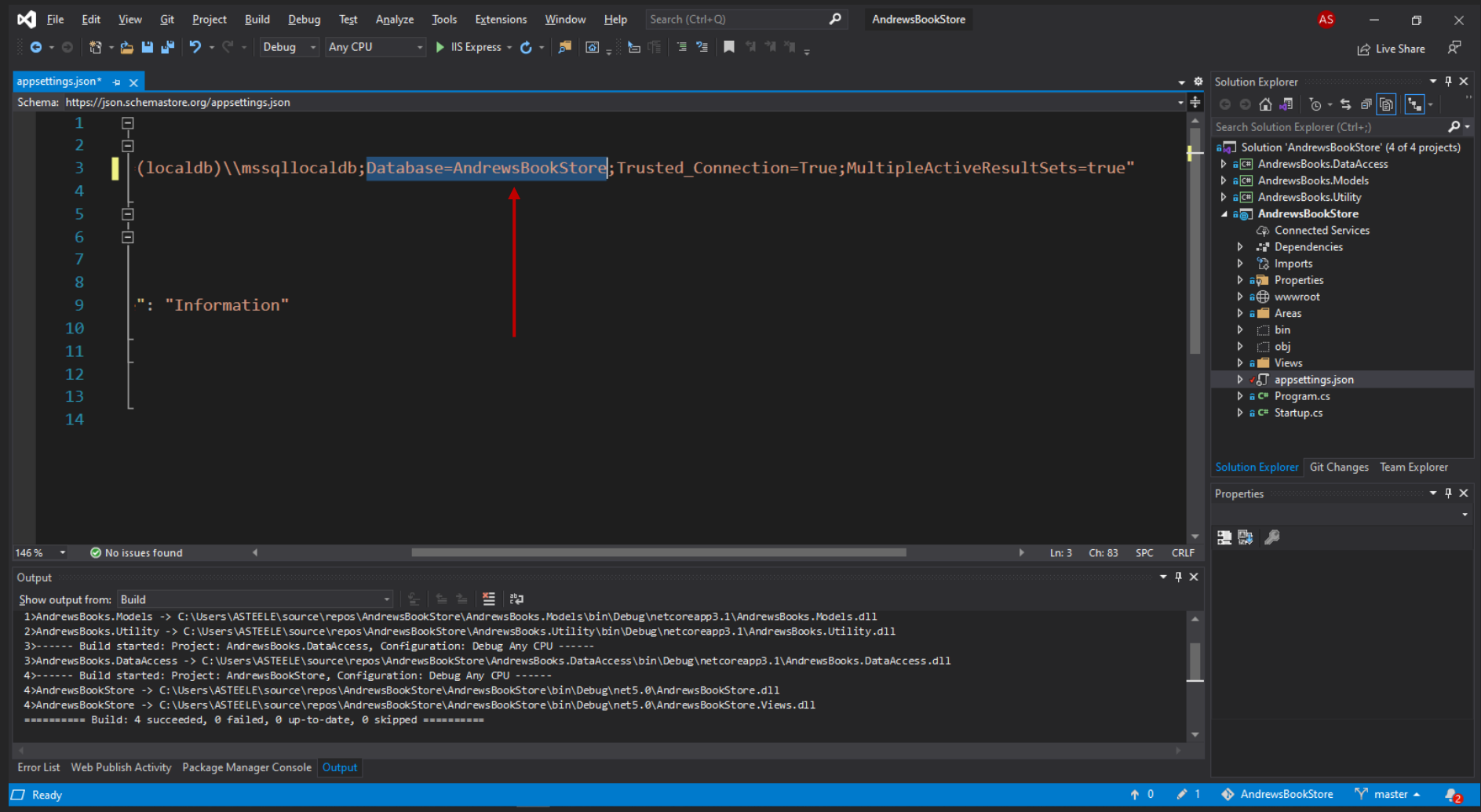

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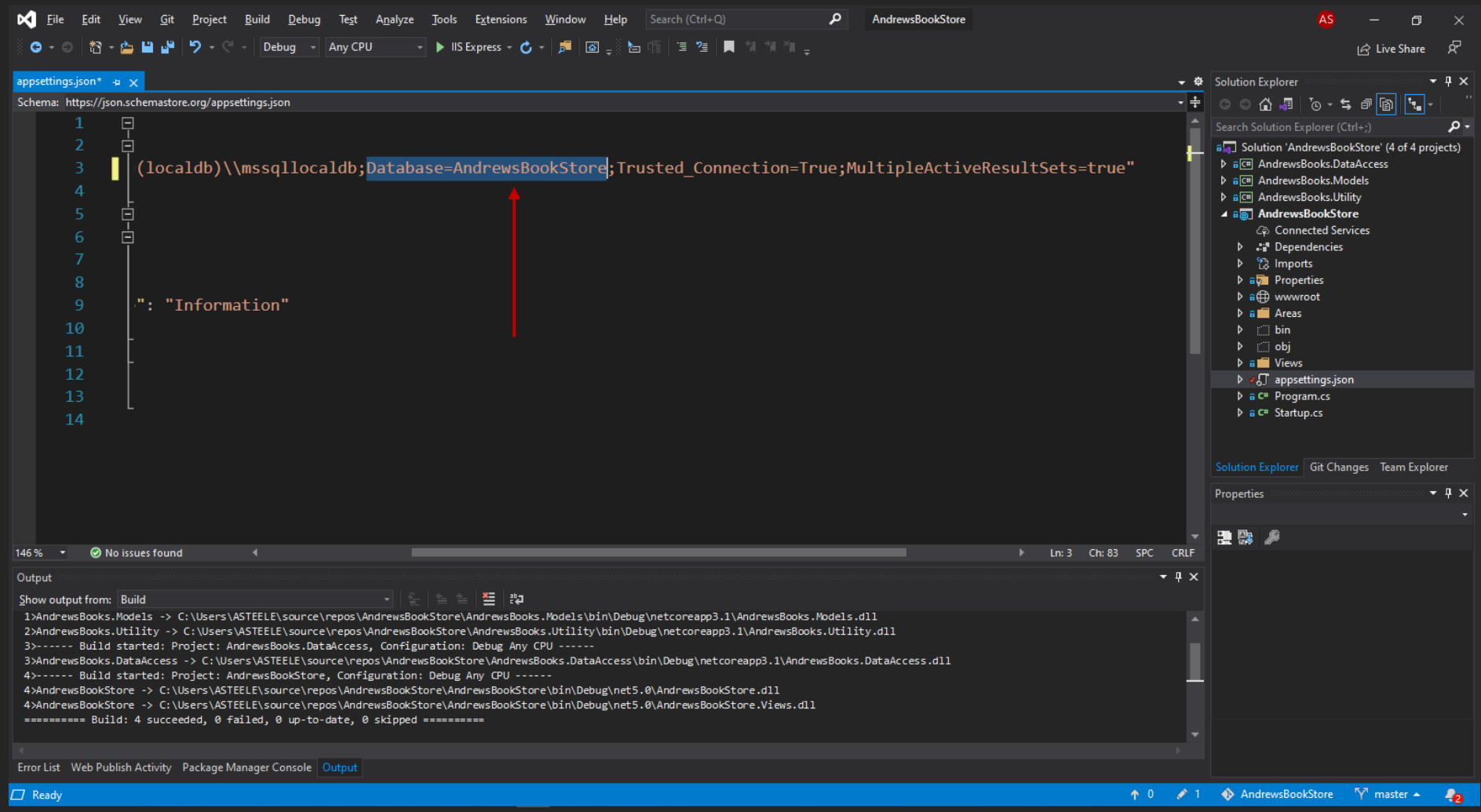
- Create the migrations (using code-first, where changes are “pushed” to the database), modify the database name and save.

- Use the NuGet Package Manager Console to add the migration (with a meaningful name).



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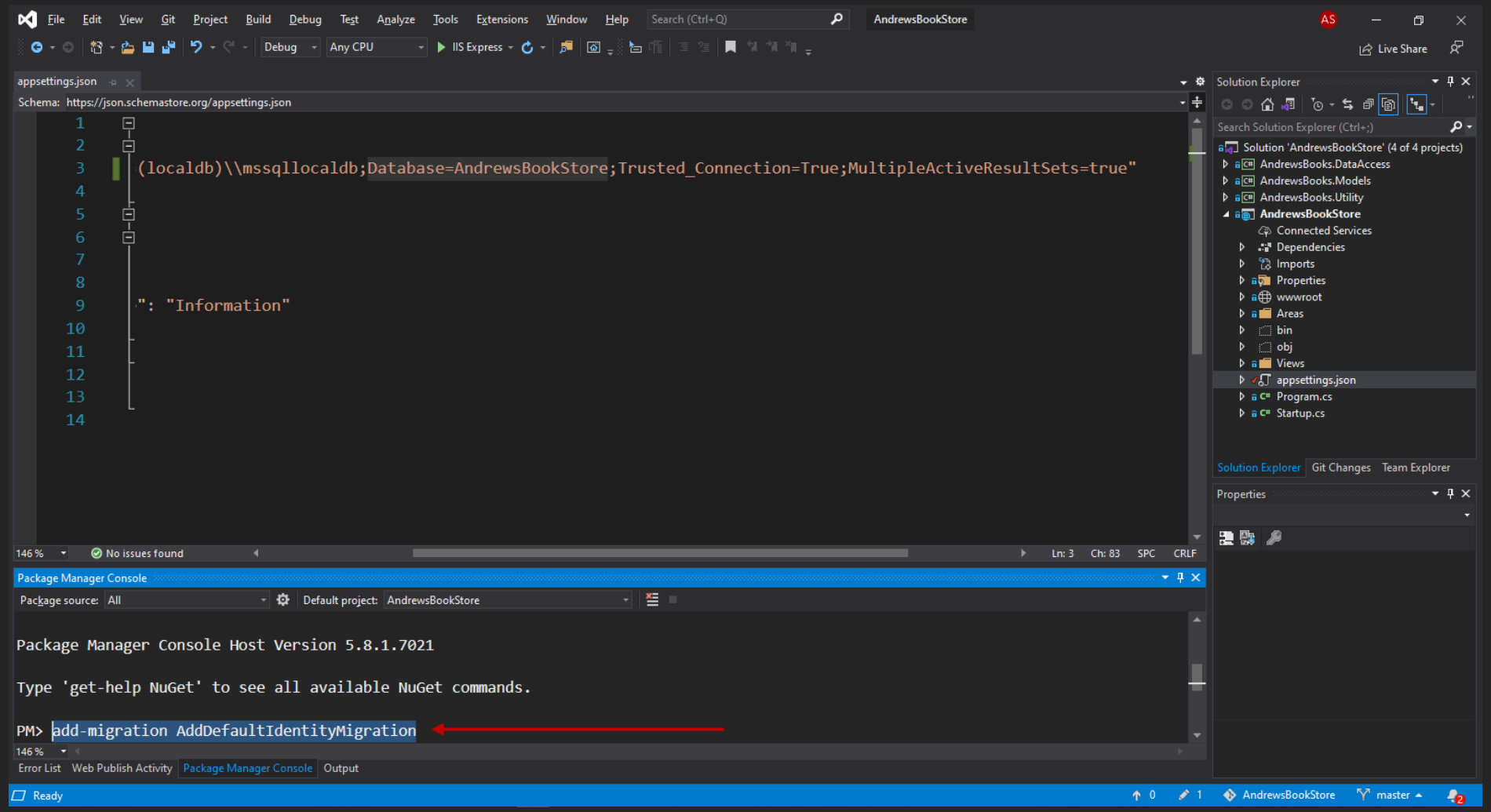

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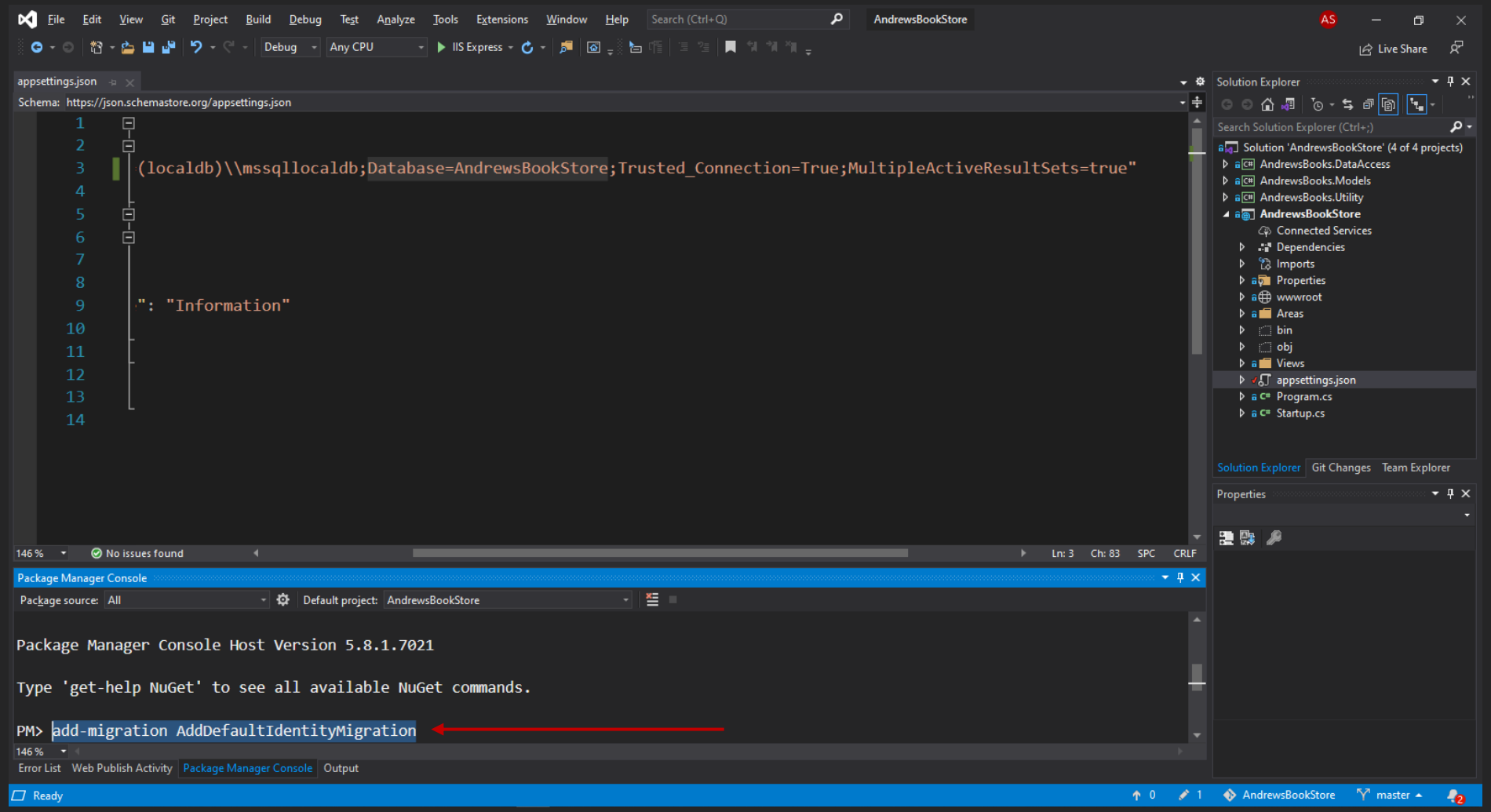
- Note what happens if the wrong default project is selected.



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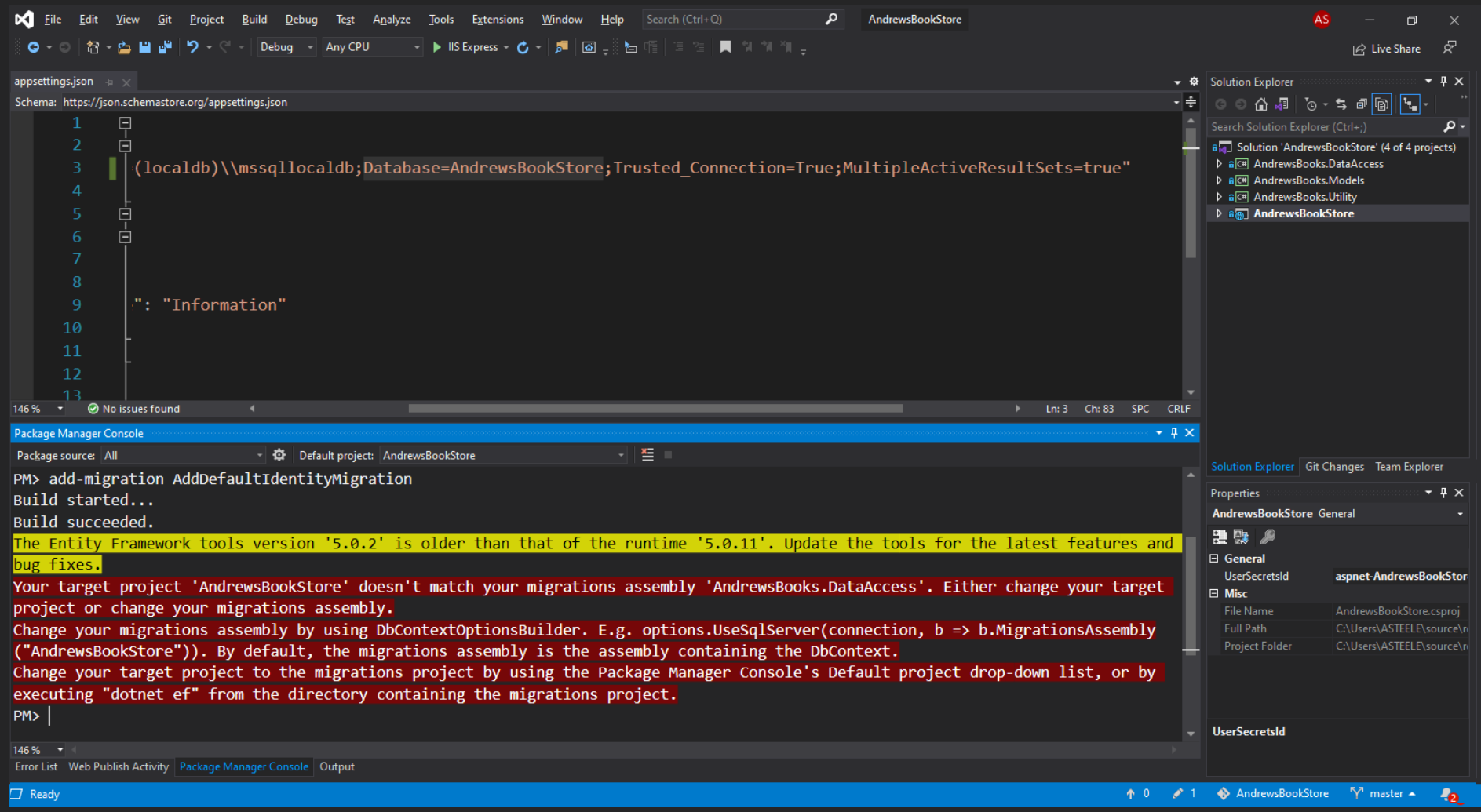

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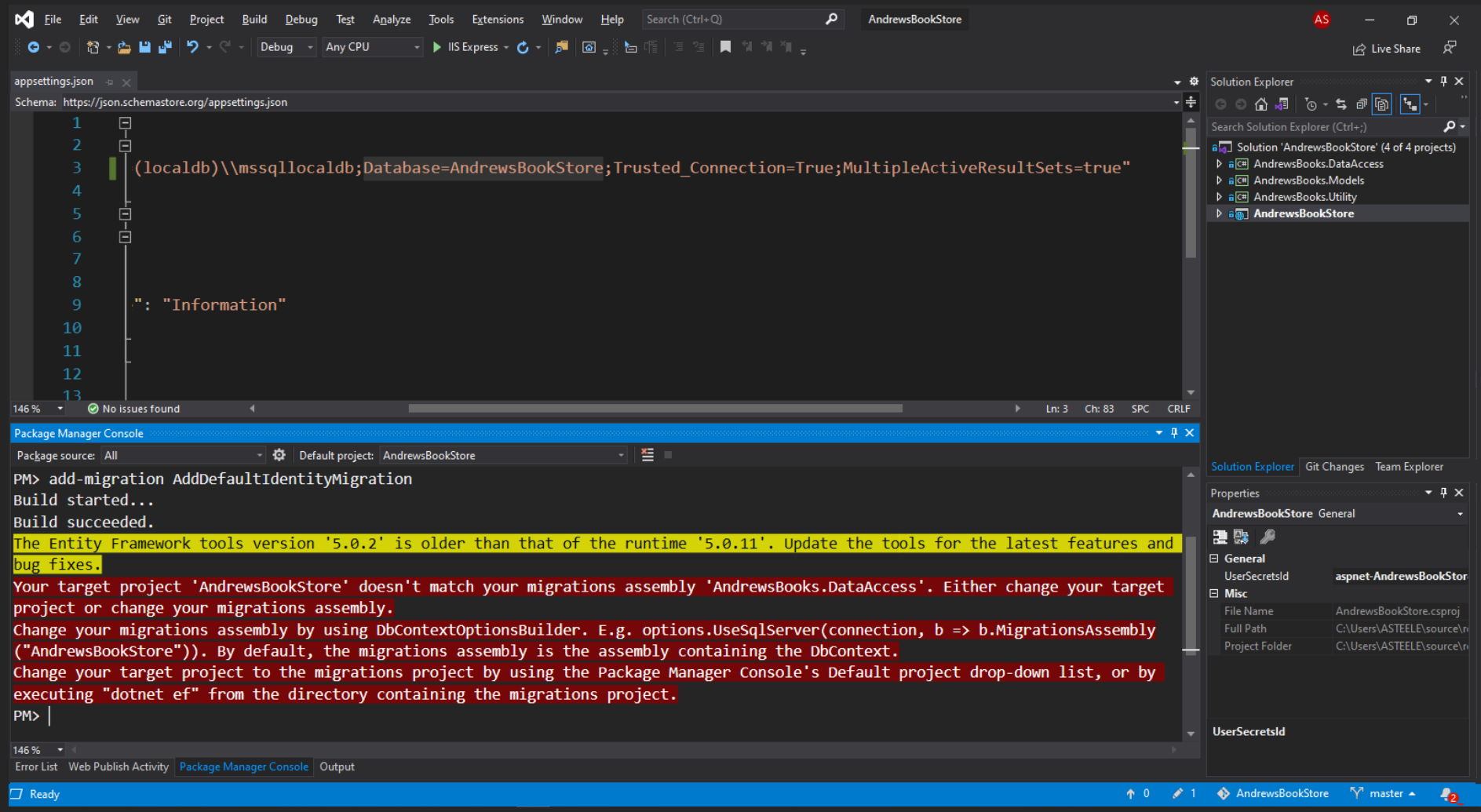
- Note what happens if the wrong default project is selected.
- Change to the correct default project (.DataAccess) and run again.



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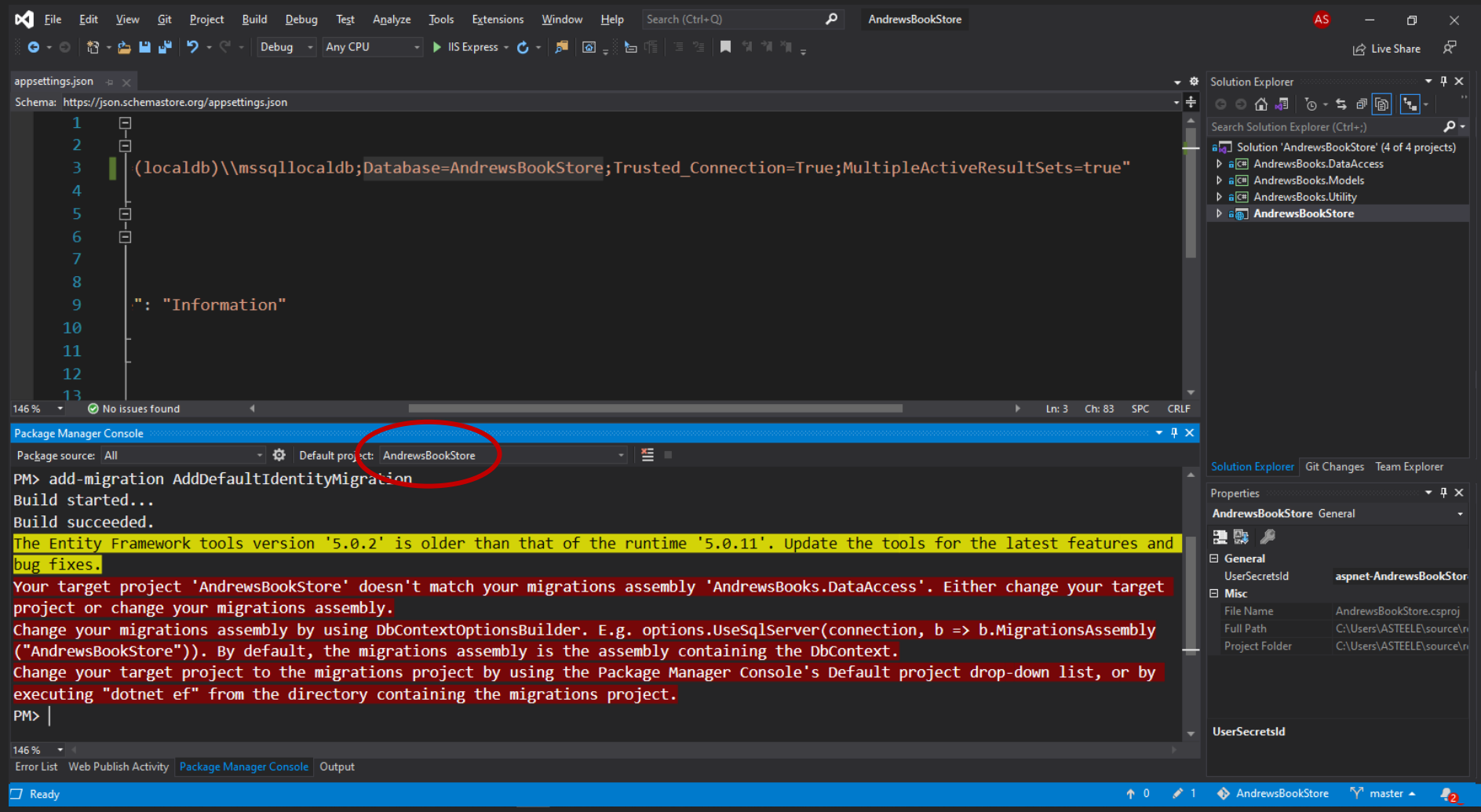

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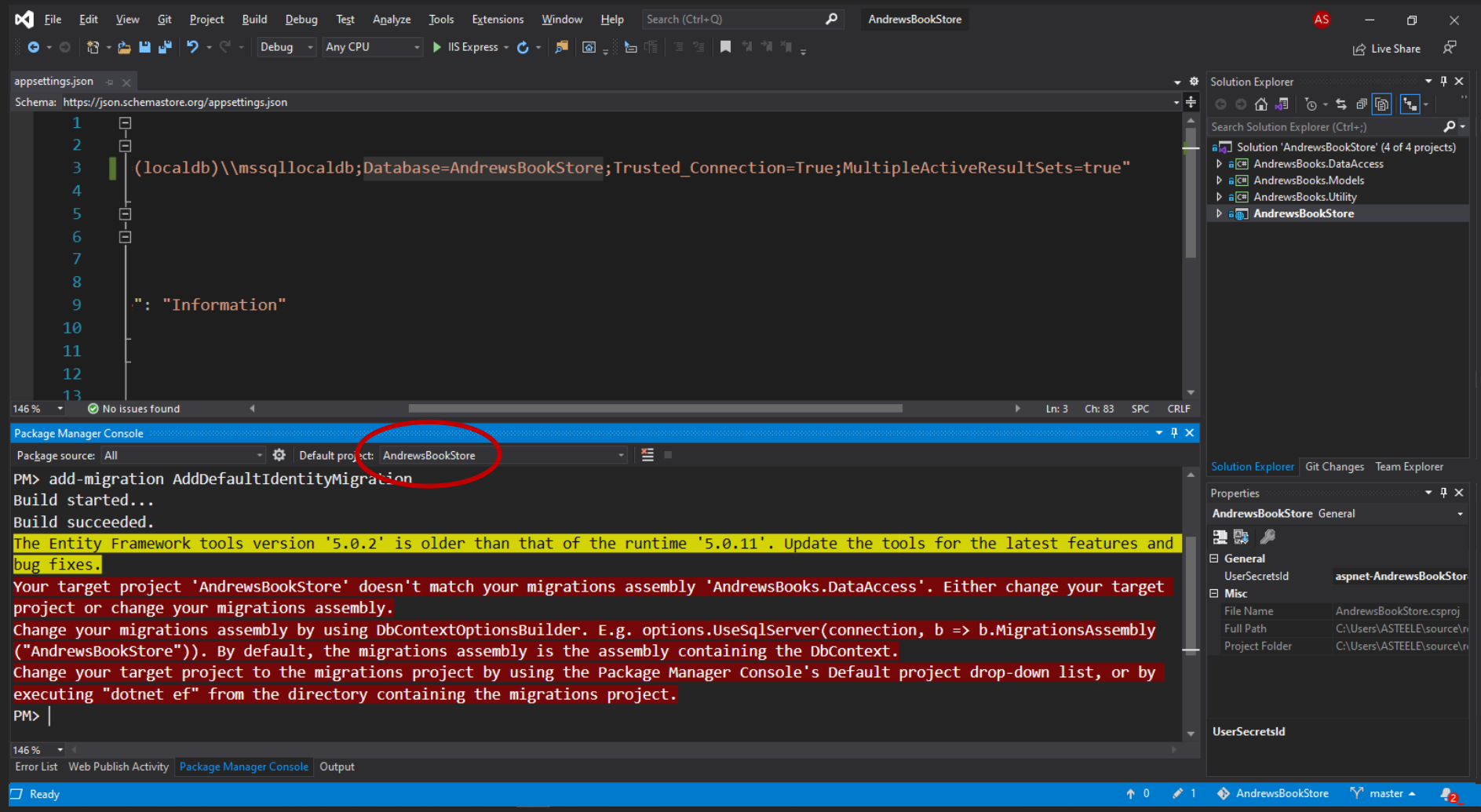
- Add the new migration file name entry in the README.



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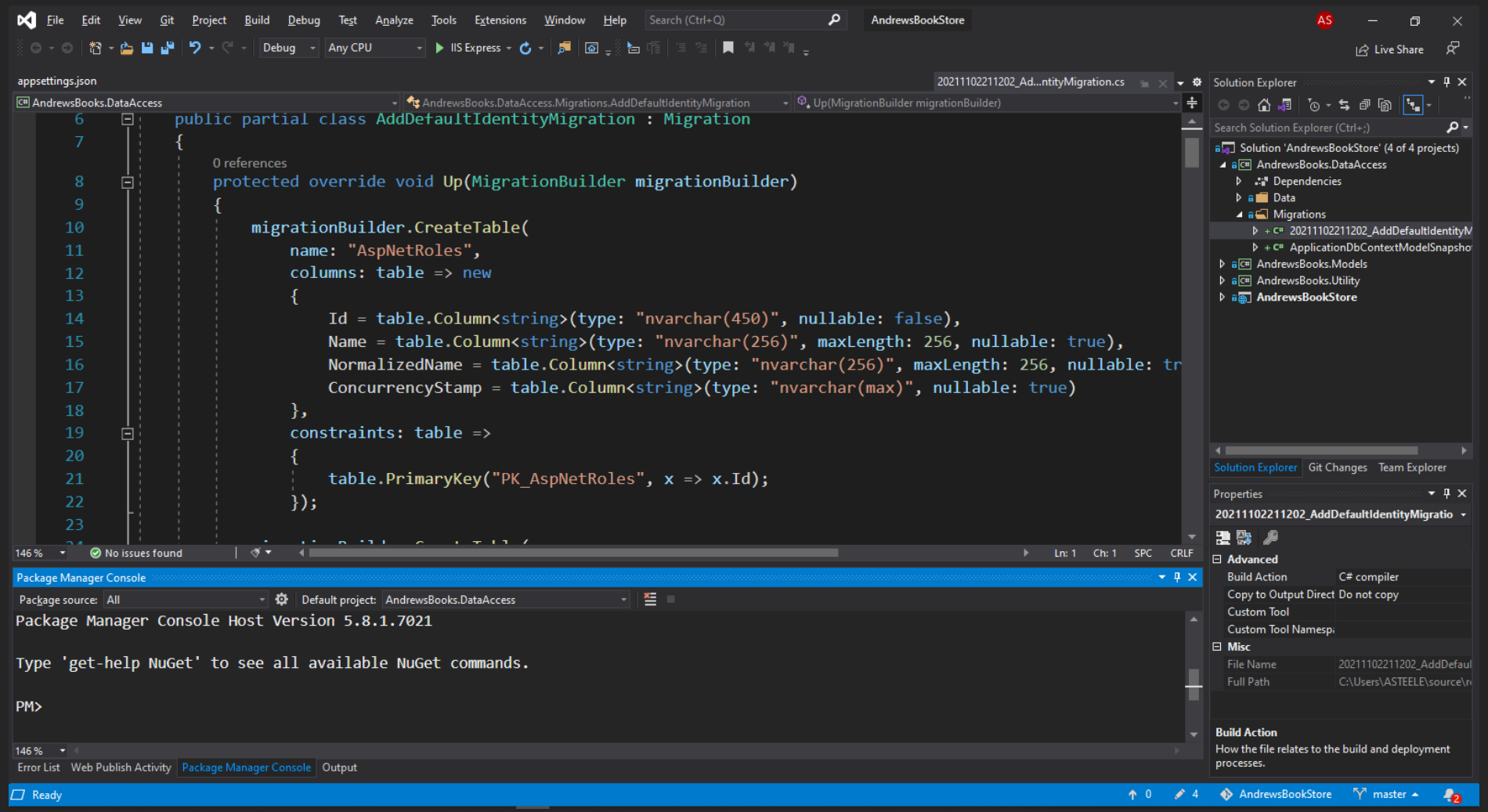

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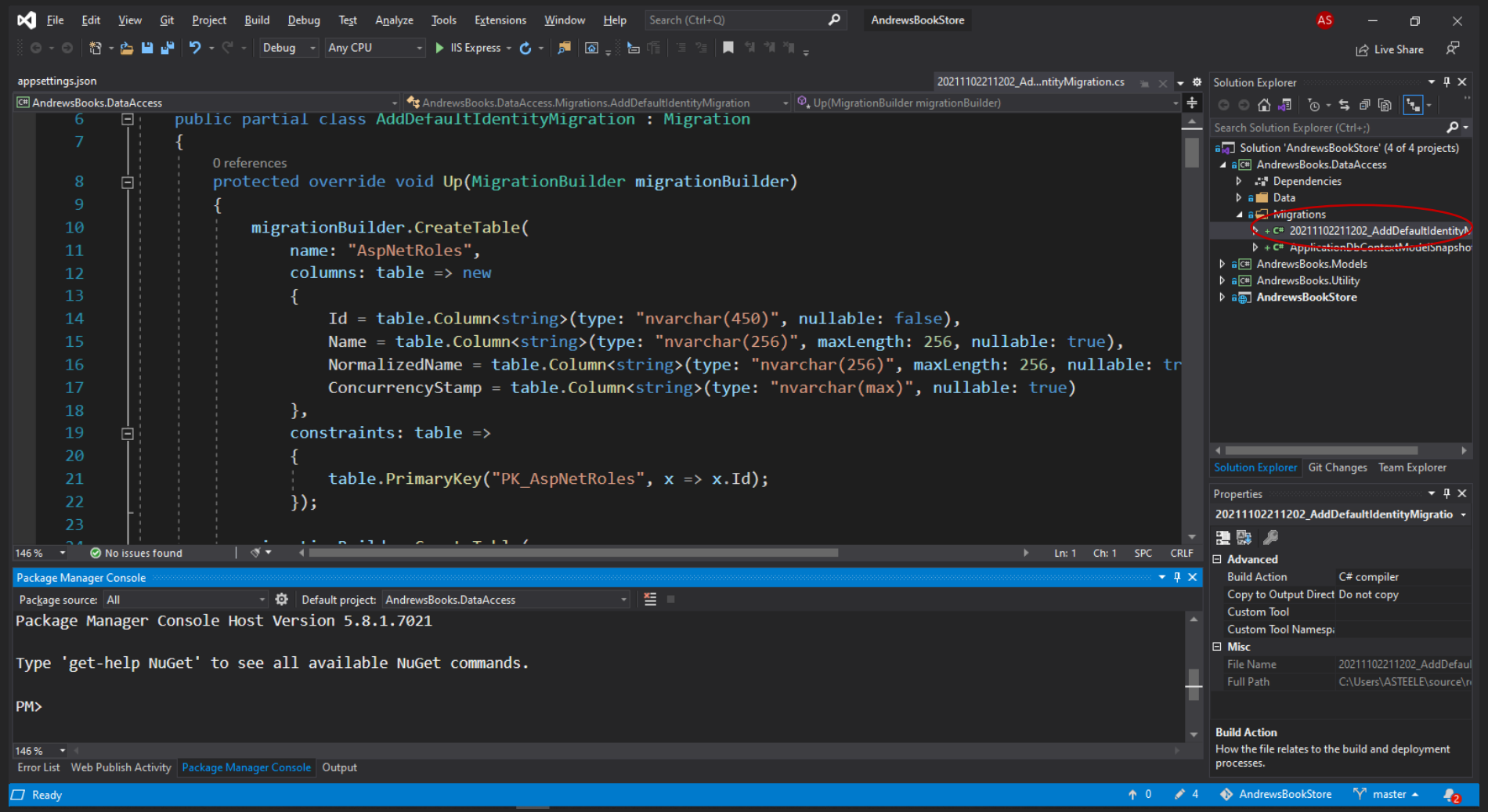
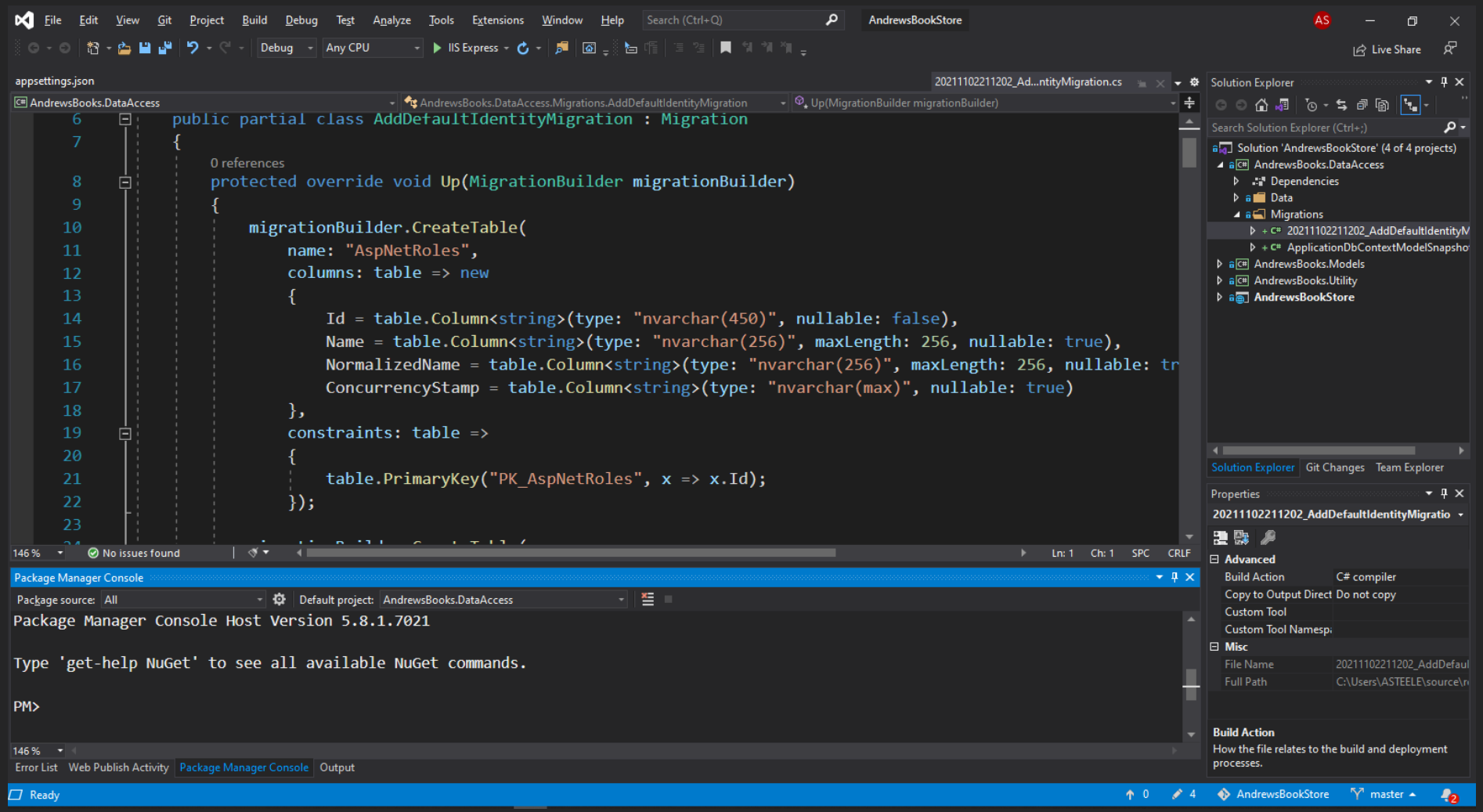
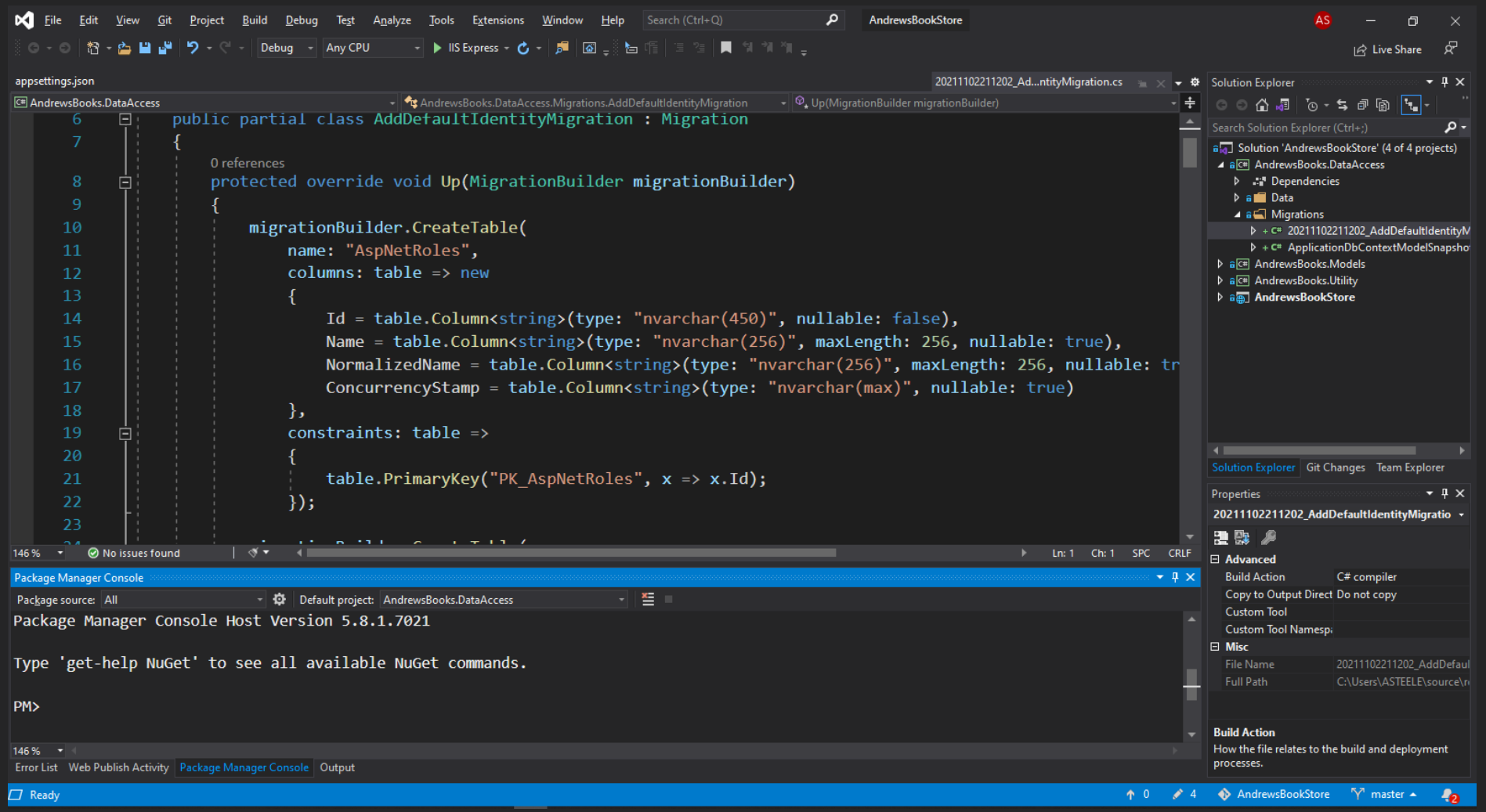



File Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help
Search (Ctrl+Q)
AndrewsBookStore
Debug
Any CPU
IIS Express
Live Share
appsettings.json
20211102211202_Ad...ntityMigration.cs
AndrewsBooks.DataAccess
AndrewsBooks.DataAccess.Migrations.AddDefaultIdentityMigration
Up(MigrationBuilder migrationBuilder)
public partial class AddDefaultIdentityMigration : Migration
{
0 references
protected override void Up(MigrationBuilder migrationBuilder)
{
migrationBuilder.CreateTable(
name: "AspNetRoles",
columns: table => new
{
Id = table.Column<string>(type: "nvarchar(450)", nullable: false),
Name = table.Column<string>(type: "nvarchar(256)", maxLength: 256, nullable: true),
NormalizedName = table.Column<string>(type: "nvarchar(256)", maxLength: 256, nullable: tr
ConcurrencyStamp = table.Column<string>(type: "nvarchar(max)", nullable: true)
},
constraints: table =>
{
table.PrimaryKey("PK_AspNetRoles", x => x.Id);
});
146 %
No issues found
Ln: 1 Ch: 1 SPC CRLF
Solution Explorer
Search Solution Explorer (Ctrl+;)
Solution 'AndrewsBookStore' (4 of 4 projects)
AndrewsBooks.DataAccess
Dependencies
Data
Migrations
20211102211202_AddDefaultIdentityM
ApplicationDbContextModelSnapsho
AndrewsBooks.Models
AndrewsBooks.Utility
AndrewsBookStore
Solution Explorer
Git Changes
Team Explorer
Properties
20211102211202_AddDefaultIdentityMigratio
Advanced
Build Action
C# compiler
Copy to Output Direct
Do not copy
Custom Tool
Custom Tool Namespa
Misc
File Name
20211102211202_AddDefaul
Full Path
C:\Users\ASTEELE\source\r
Build Action
How the file relates to the build and deployment processes.
Package Manager Console
Package source: All
Default project: AndrewsBooks.DataAccess
Package Manager Console Host Version 5.8.1.7021
Type 'get-help NuGet' to see all available NuGet commands.
PM>
146 %
Error List
Web Publish Activity
Package Manager Console
Output
Ready
0
4
AndrewsBookStore
master

- Review the file for the SQL-like syntax, statements, columns and primary key constraints.



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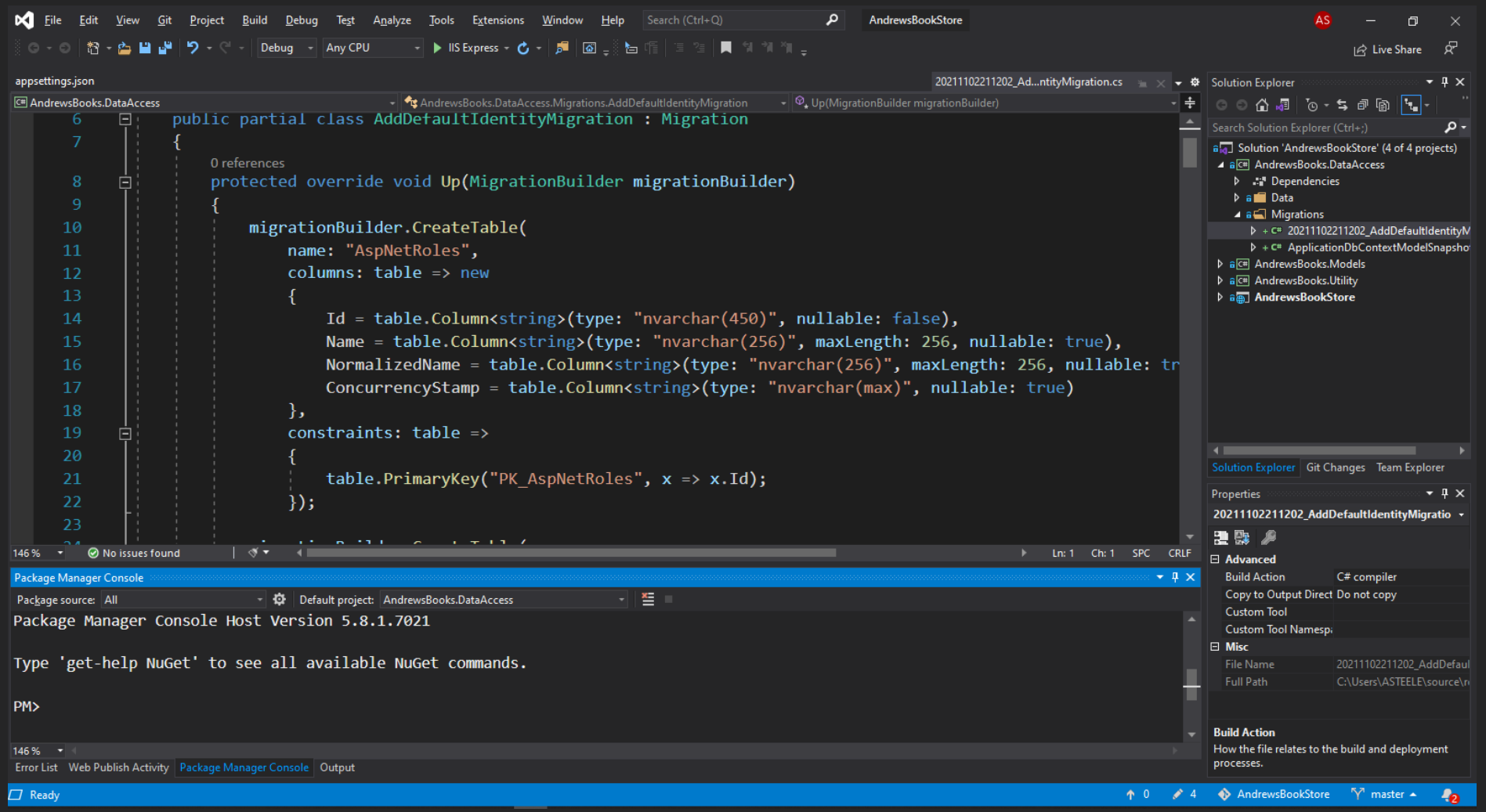
- Note tables related the ASP.NET Identity.



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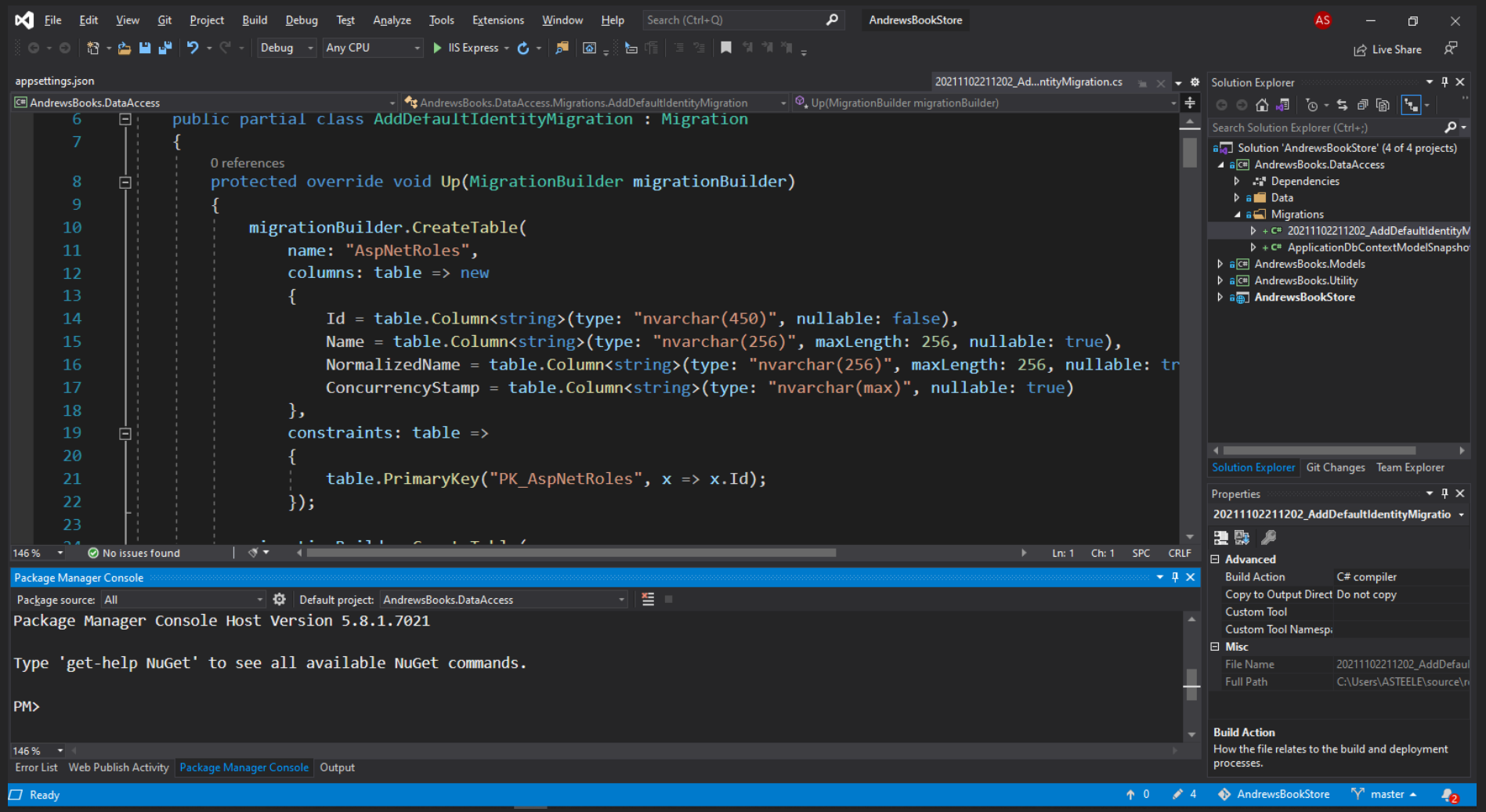
- Once the migration is complete, the database needs to be updated.



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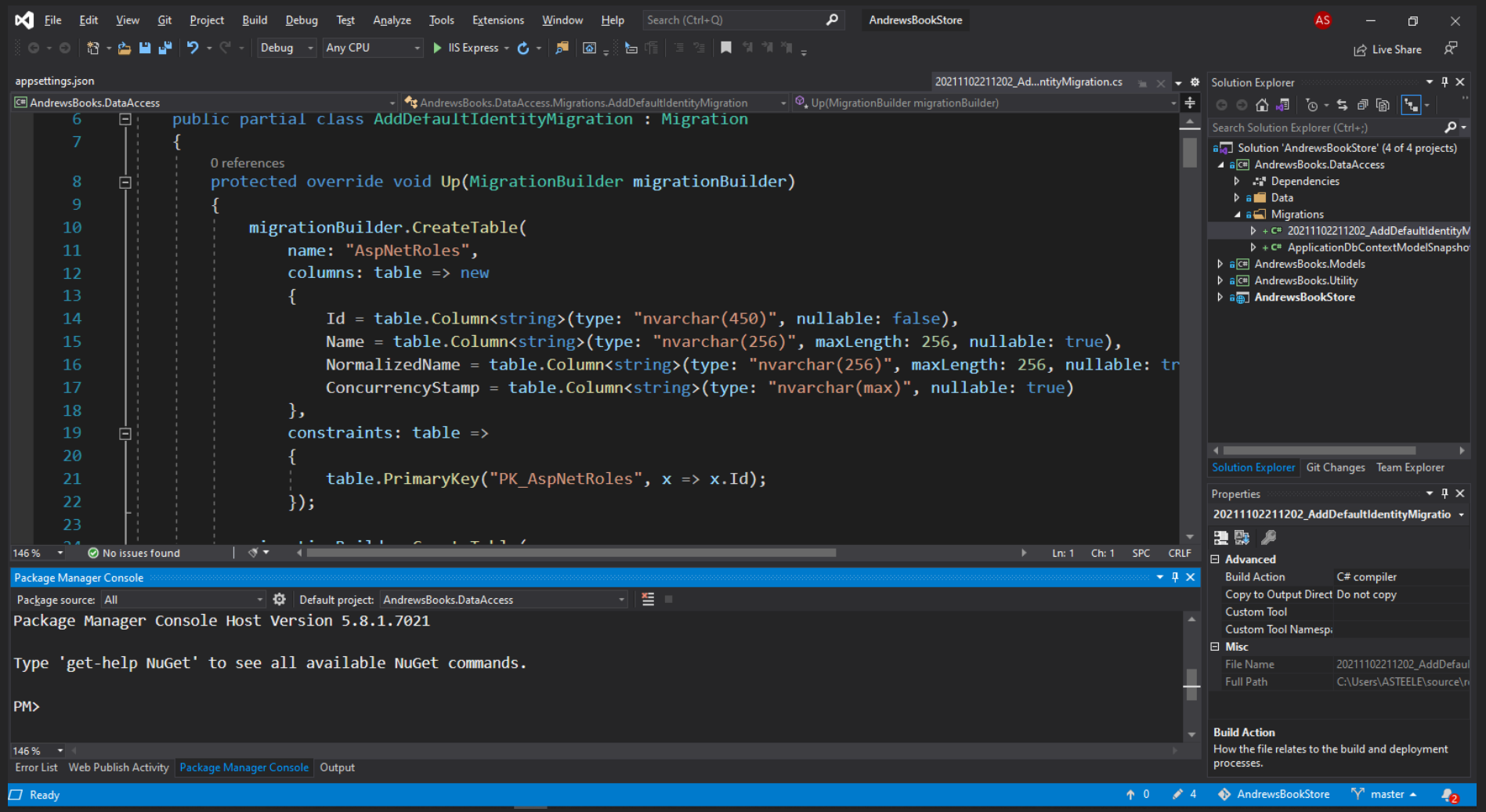

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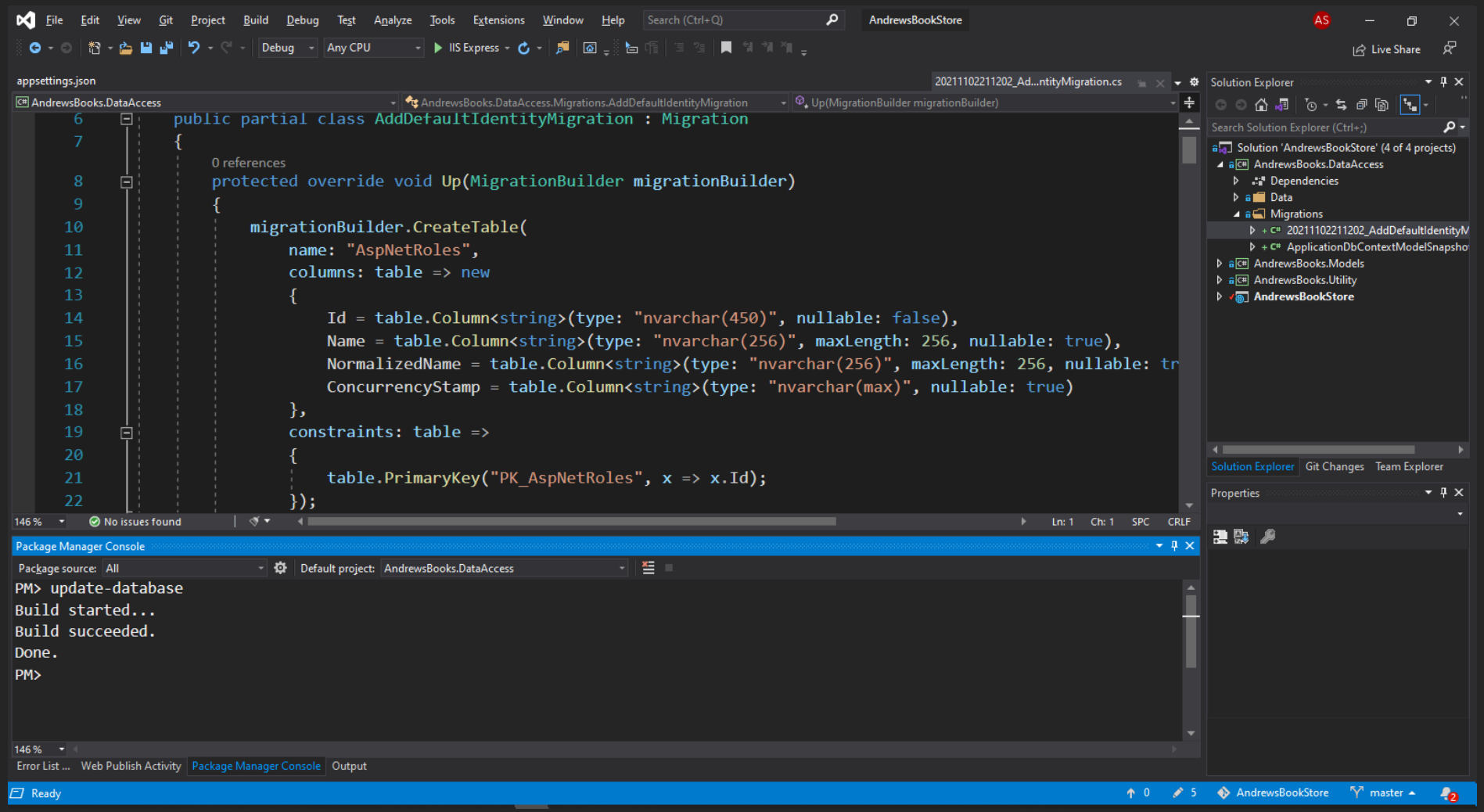

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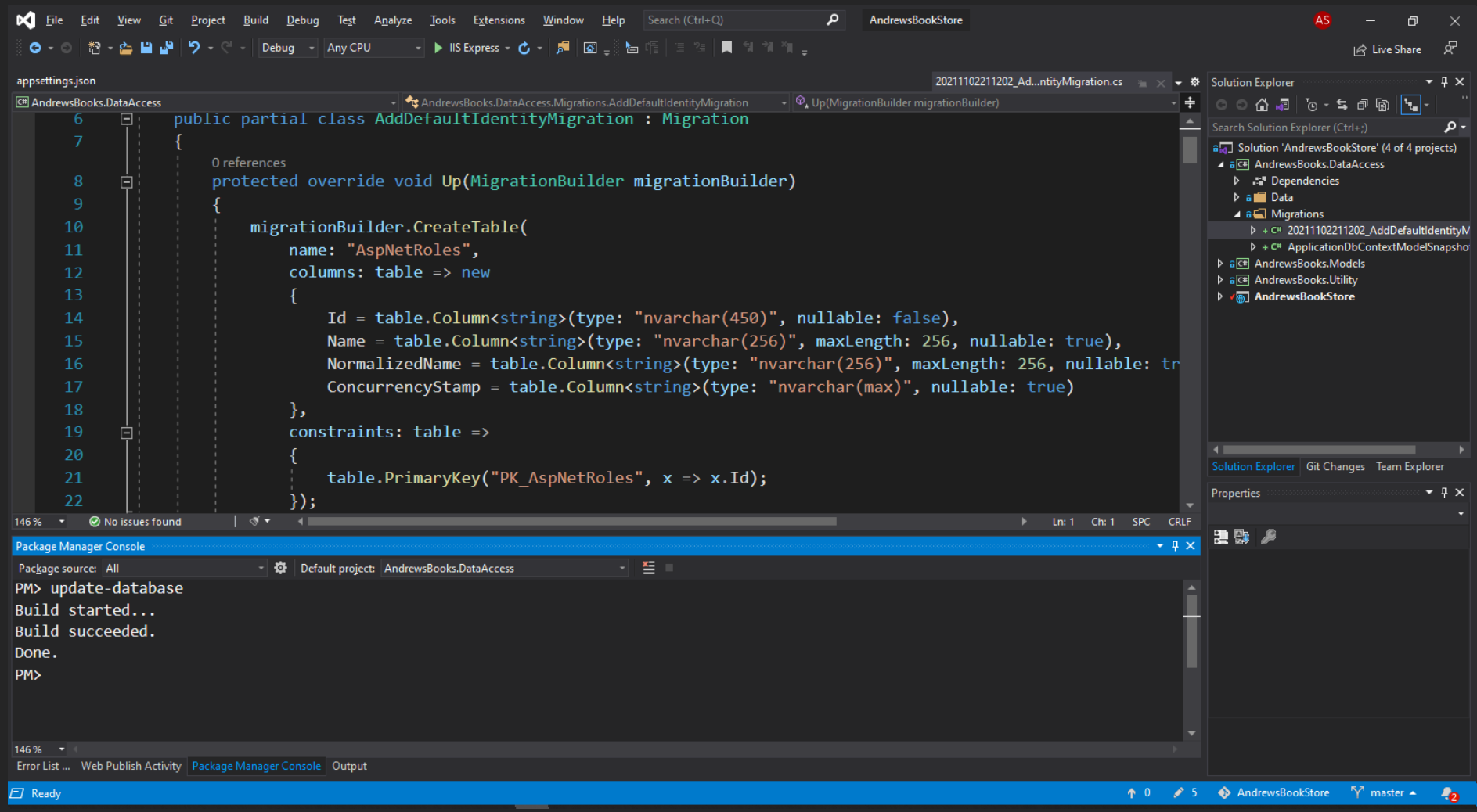
- Review the updated database in the SQL Server Object Explorer.



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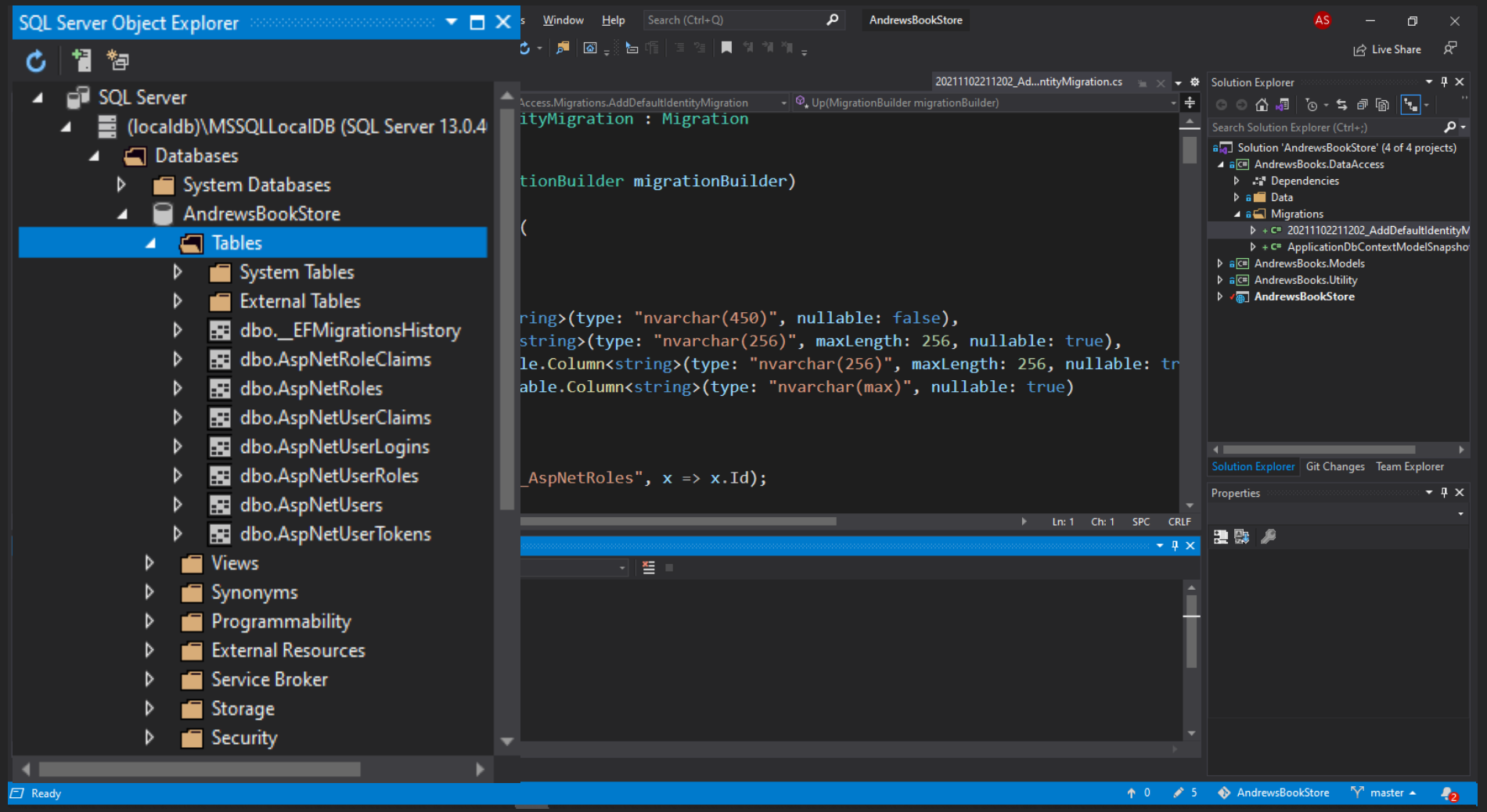

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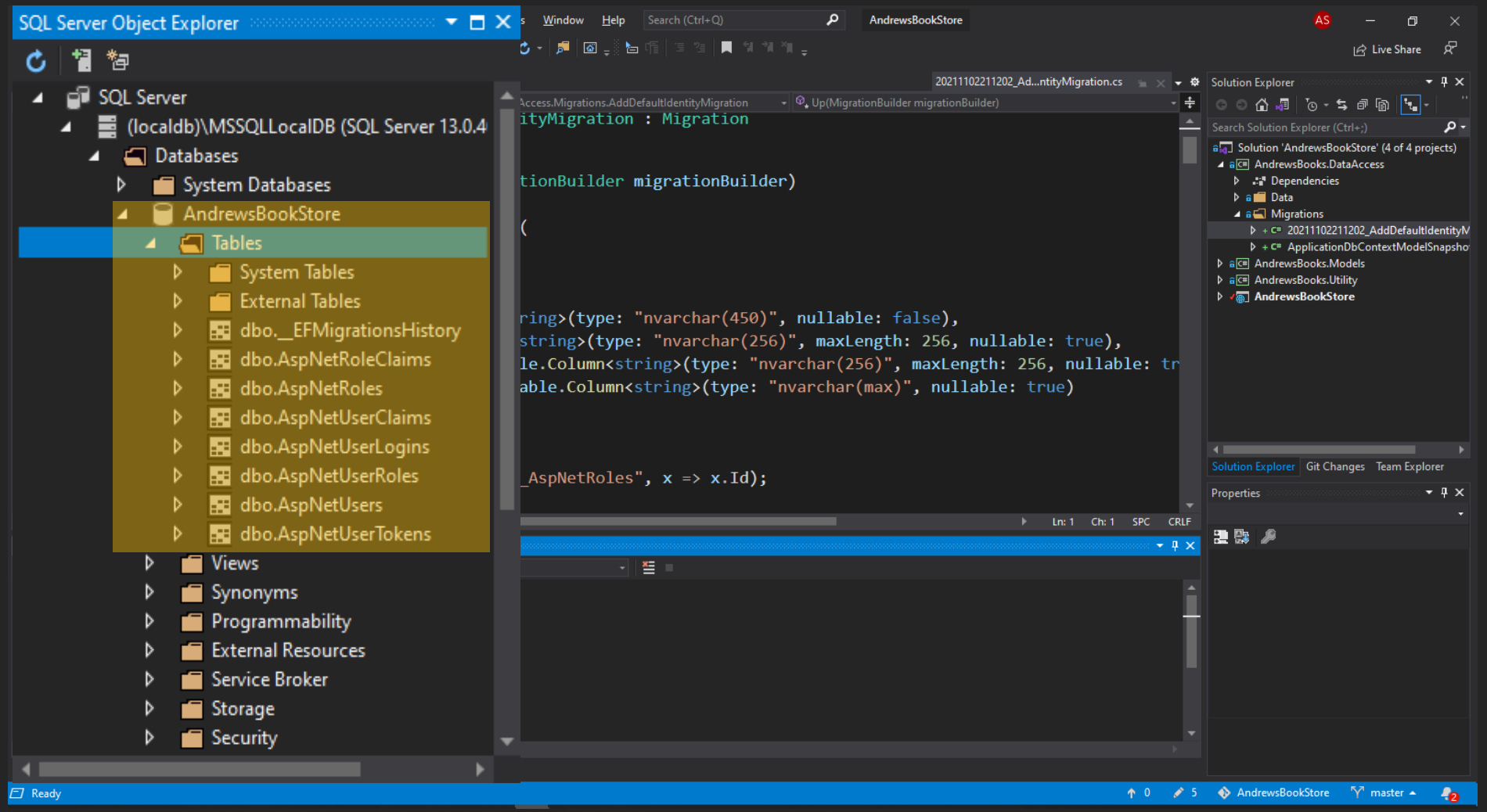

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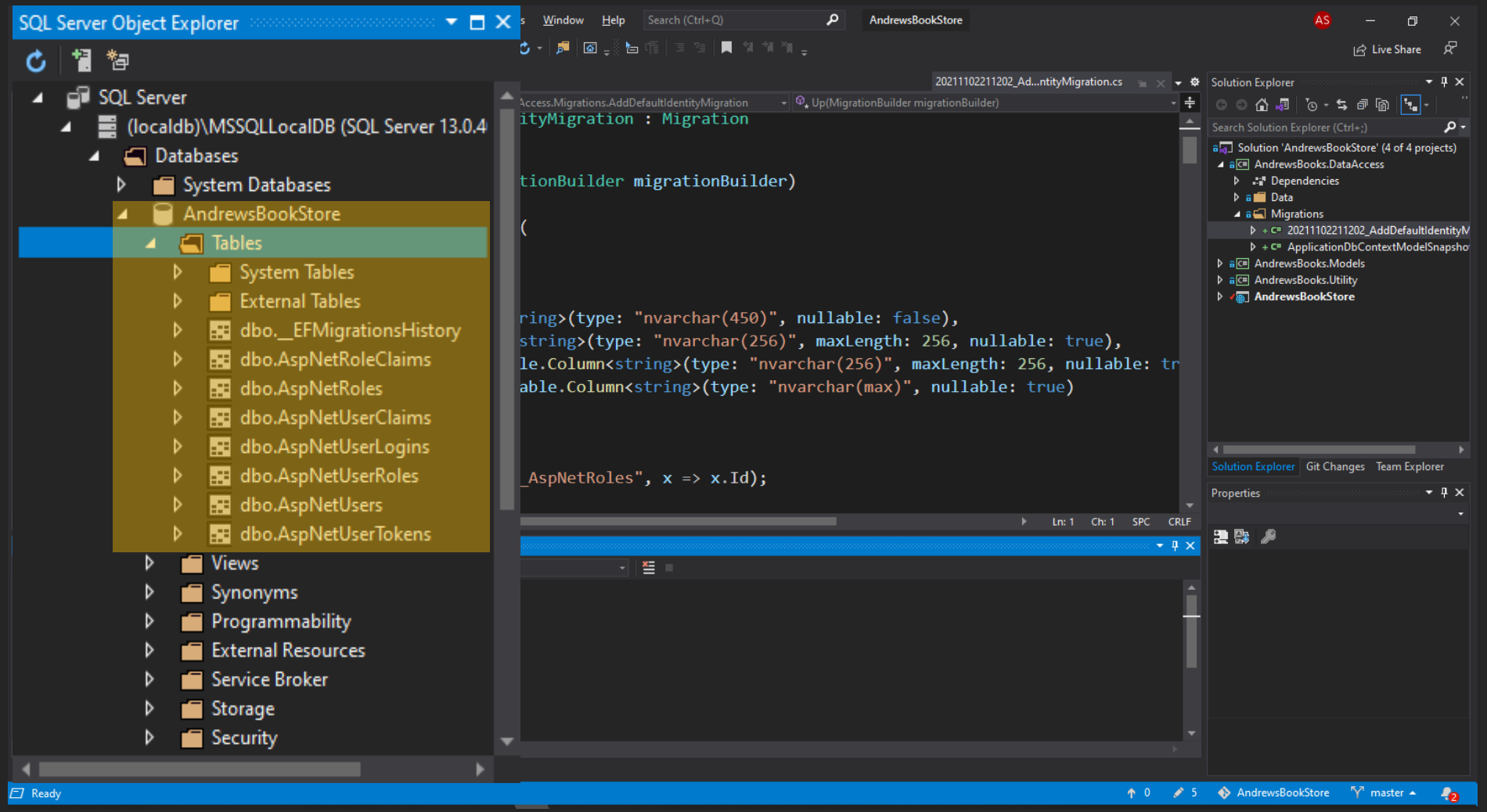
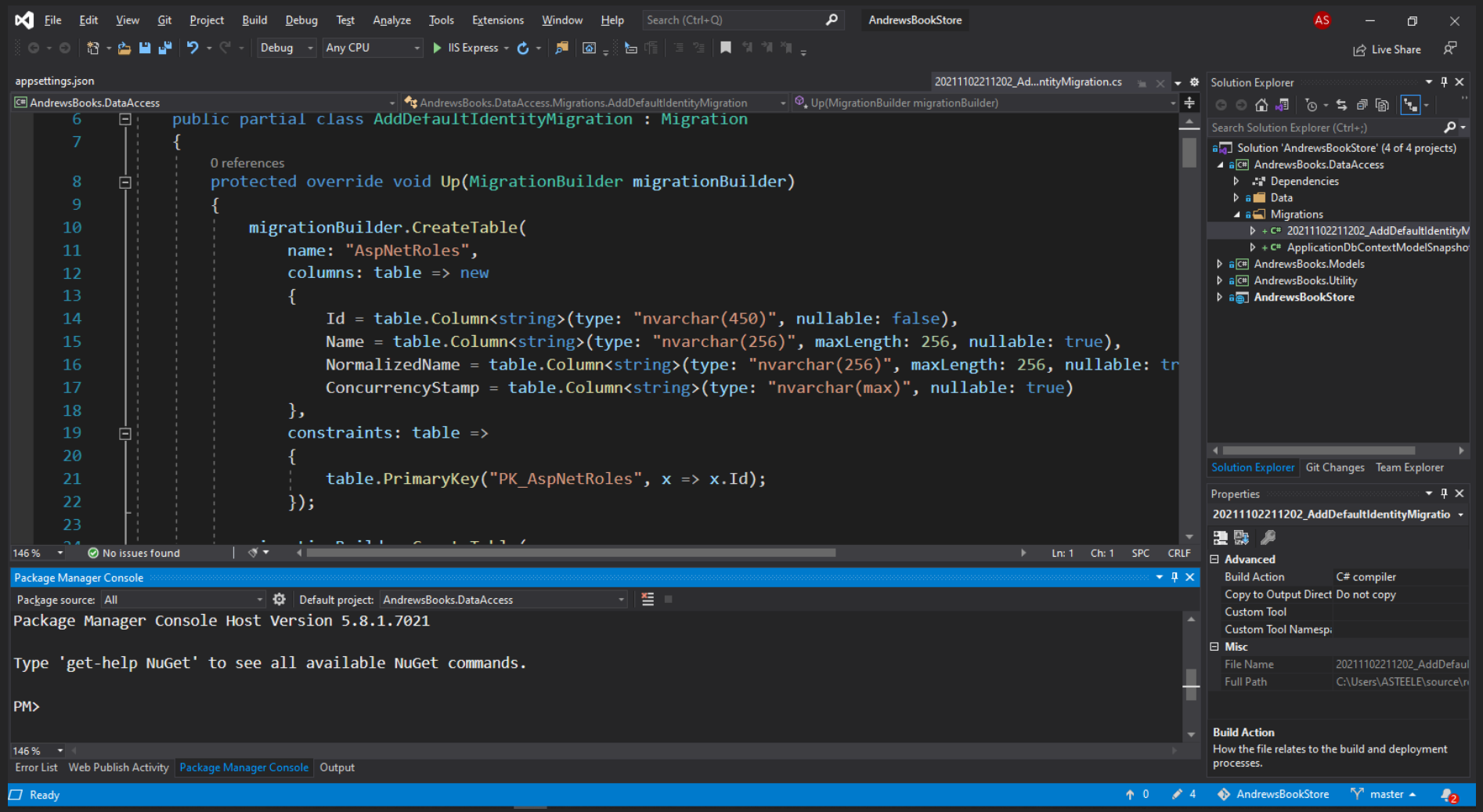
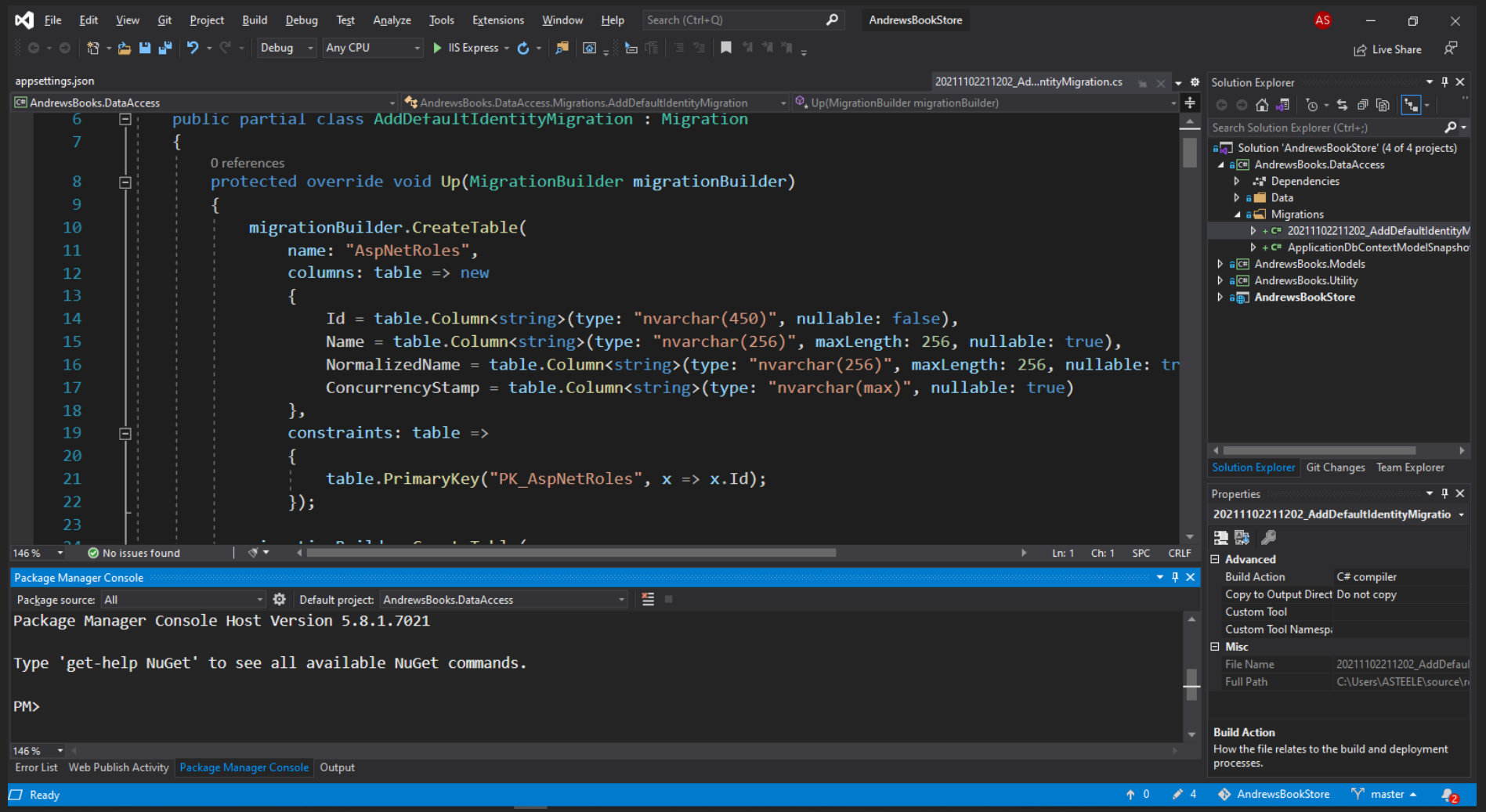
- Review the updated database in the SQL Server Object Explorer.
- Check for errors, run the application

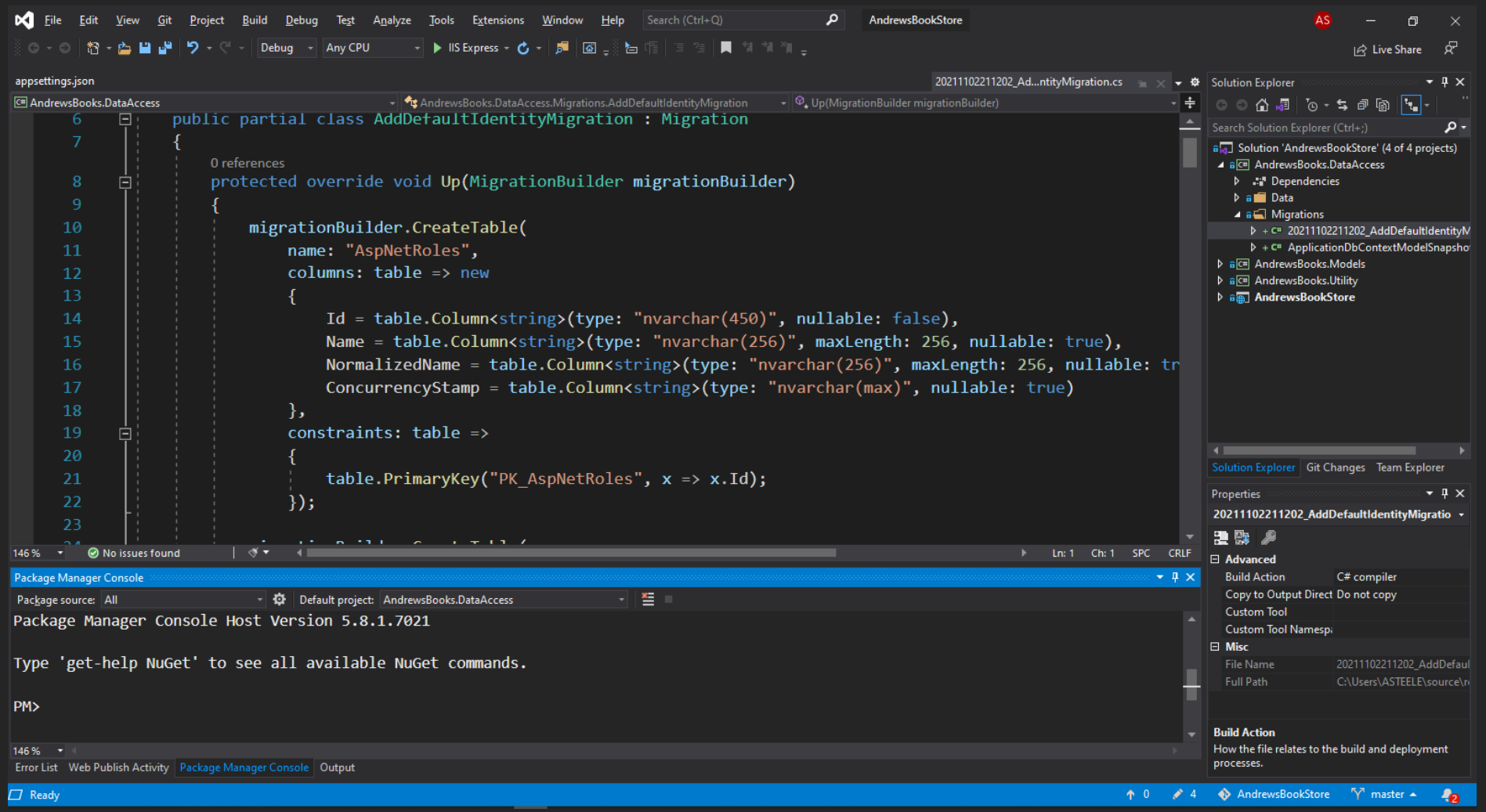



File Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help
Search (Ctrl+Q)
AndrewsBookStore
Debug
Any CPU
IIS Express
Live Share
appsettings.json
20211102211202_Ad...ntityMigration.cs
AndrewsBooks.DataAccess
AndrewsBooks.DataAccess.Migrations.AddDefaultIdentityMigration
Up(MigrationBuilder migrationBuilder)
public partial class AddDefaultIdentityMigration : Migration
{
0 references
protected override void Up(MigrationBuilder migrationBuilder)
{
migrationBuilder.CreateTable(
name: "AspNetRoles",
columns: table => new
{
Id = table.Column<string>(type: "nvarchar(450)", nullable: false),
Name = table.Column<string>(type: "nvarchar(256)", maxLength: 256, nullable: true),
NormalizedName = table.Column<string>(type: "nvarchar(256)", maxLength: 256, nullable: tr
ConcurrencyStamp = table.Column<string>(type: "nvarchar(max)", nullable: true)
},
constraints: table =>
{
table.PrimaryKey("PK_AspNetRoles", x => x.Id);
});
146 %
No issues found
Ln: 1 Ch: 1 SPC CRLF
Solution Explorer
Search Solution Explorer (Ctrl+;)
Solution 'AndrewsBookStore' (4 of 4 projects)
AndrewsBooks.DataAccess
Dependencies
Data
Migrations
20211102211202_AddDefaultIdentityM
ApplicationDbContextModelSnapsho
AndrewsBooks.Models
AndrewsBooks.Utility
AndrewsBookStore
Solution Explorer
Git Changes
Team Explorer
Properties
20211102211202_AddDefaultIdentityMigratio
Advanced
Build Action
C# compiler
Copy to Output Direct
Do not copy
Custom Tool
Custom Tool Namespa
Misc
File Name
20211102211202_AddDefaul
Full Path
C:\Users\ASTEELE\source\r
Build Action
How the file relates to the build and deployment processes.
Package Manager Console
Package source: All
Default project: AndrewsBooks.DataAccess
Package Manager Console Host Version 5.8.1.7021
Type 'get-help NuGet' to see all available NuGet commands.
PM>
146 %
Error List
Web Publish Activity
Package Manager Console
Output
Ready
0
4
AndrewsBookStore
master

- Add a new table to the DB by creating a Category model and push it to the DB:



- Add a new table to the DB by creating a Category model and push it to the DB:
- Add a new class file to the .Models project and modify



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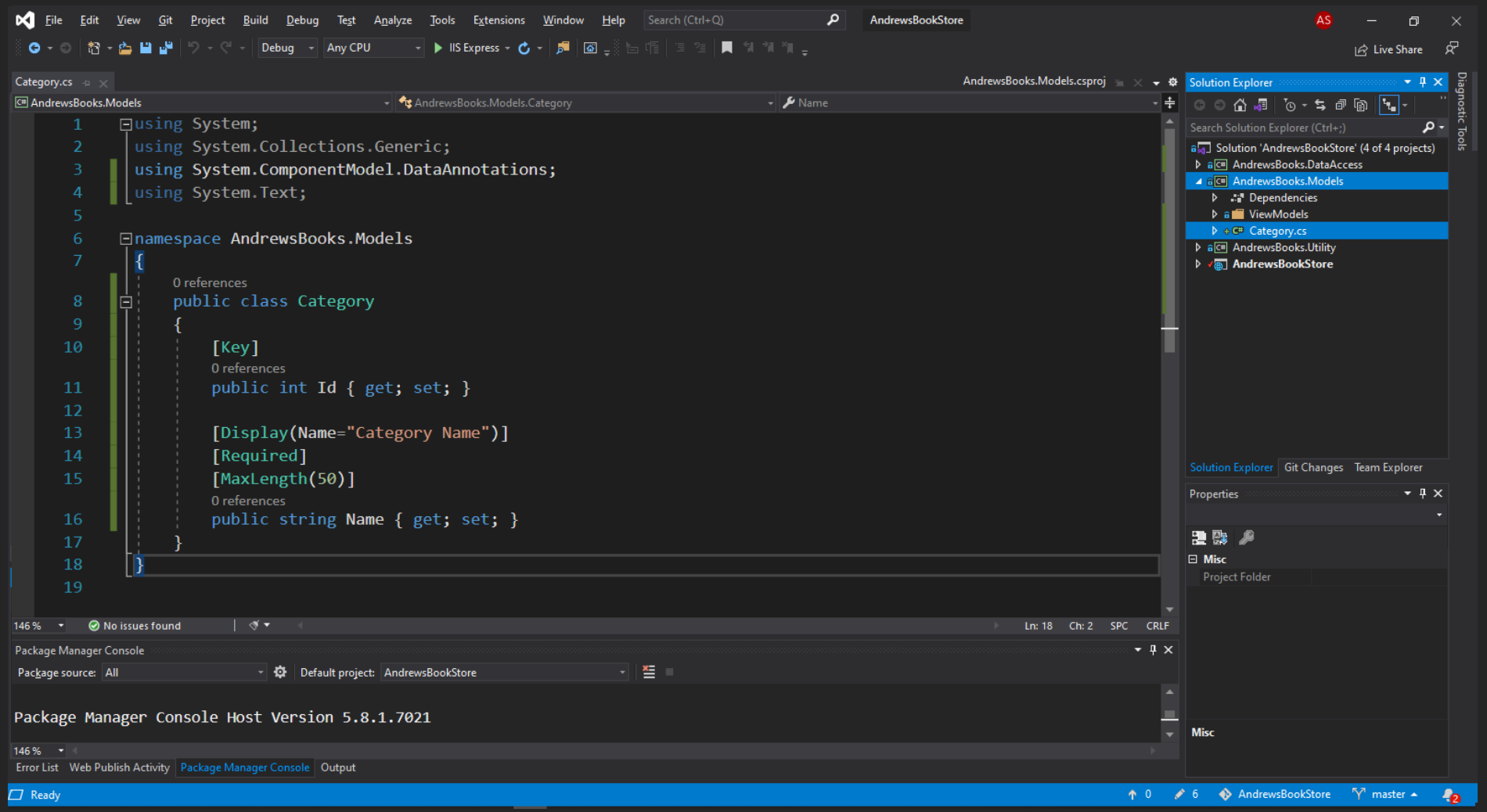

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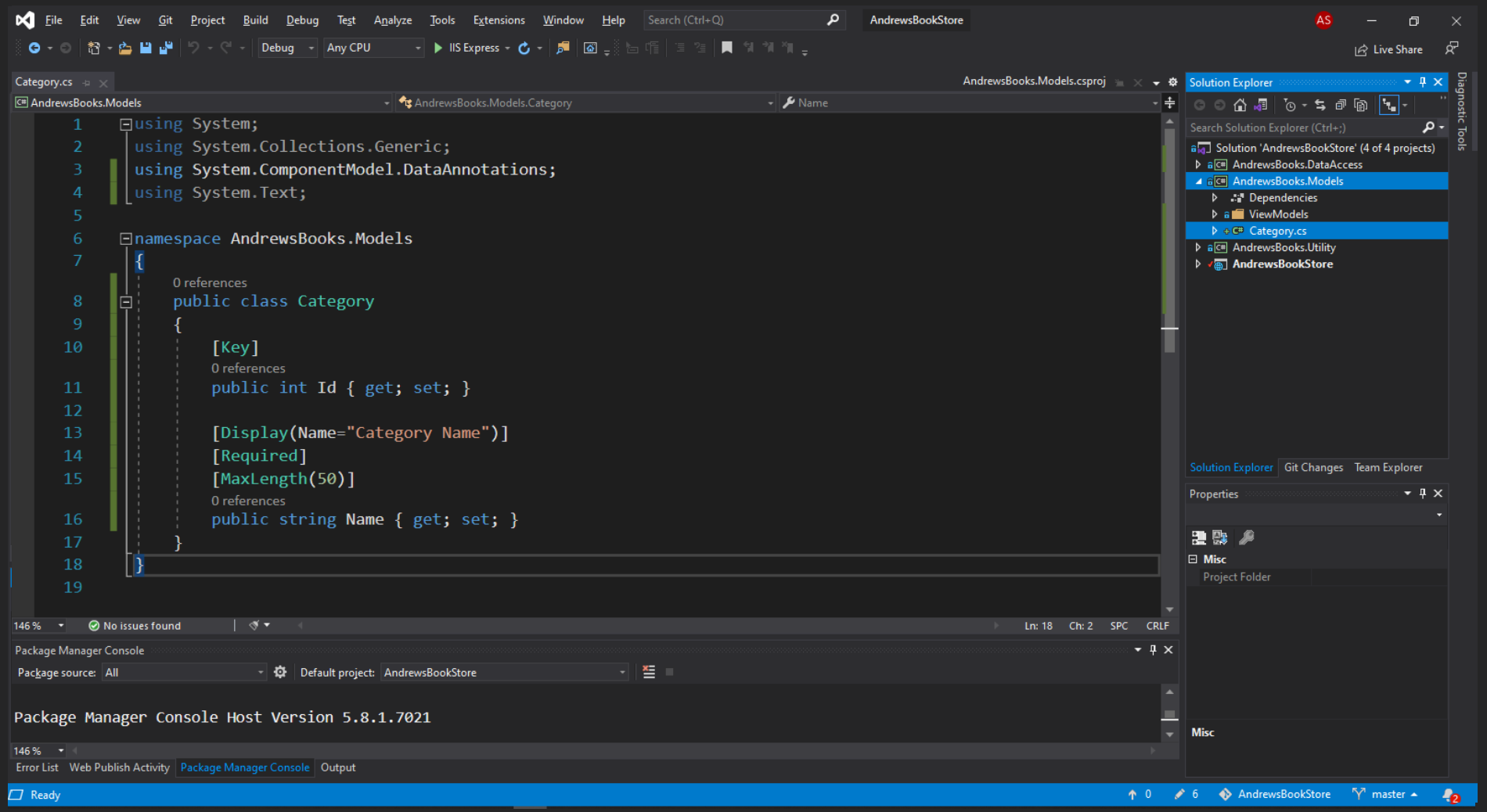

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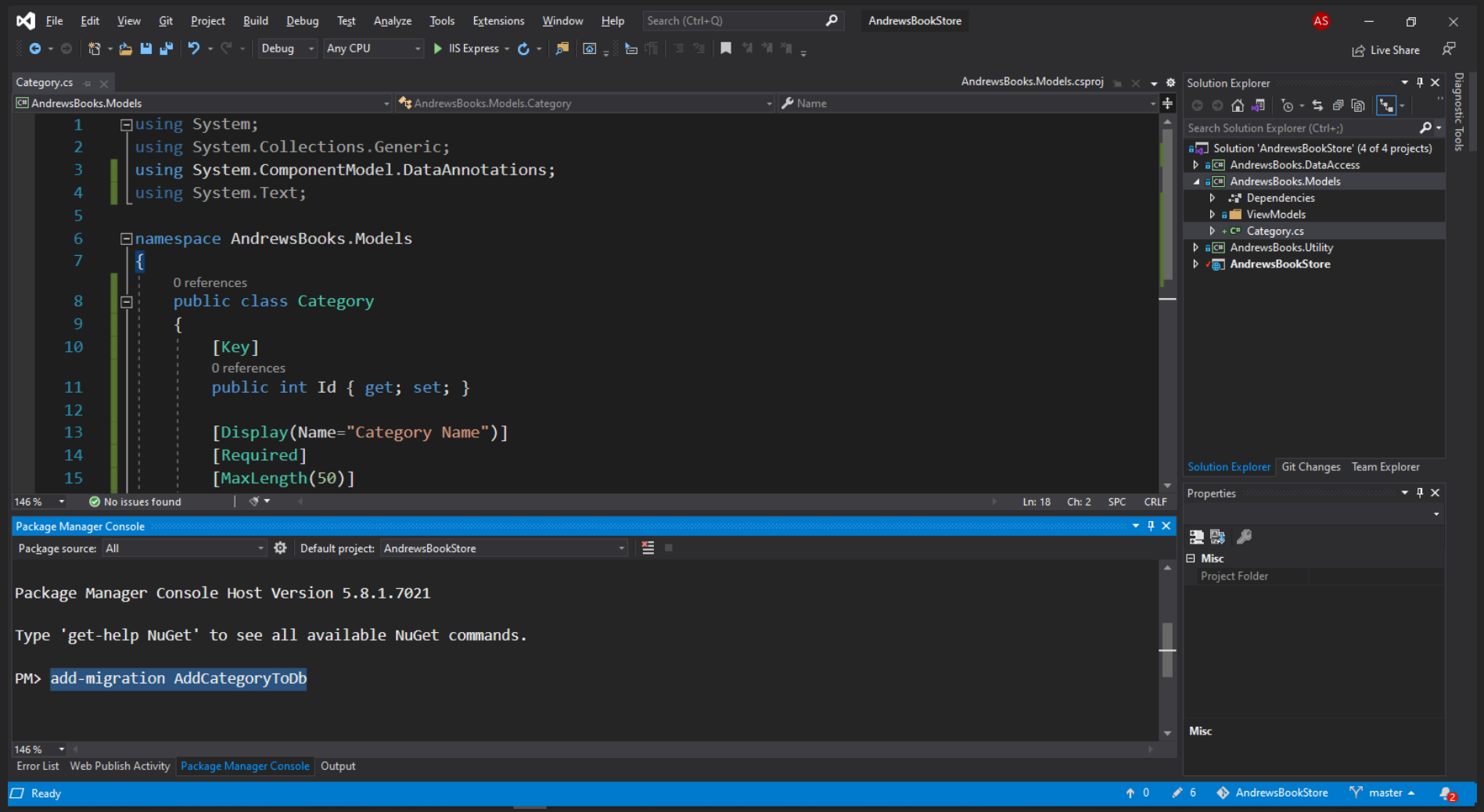

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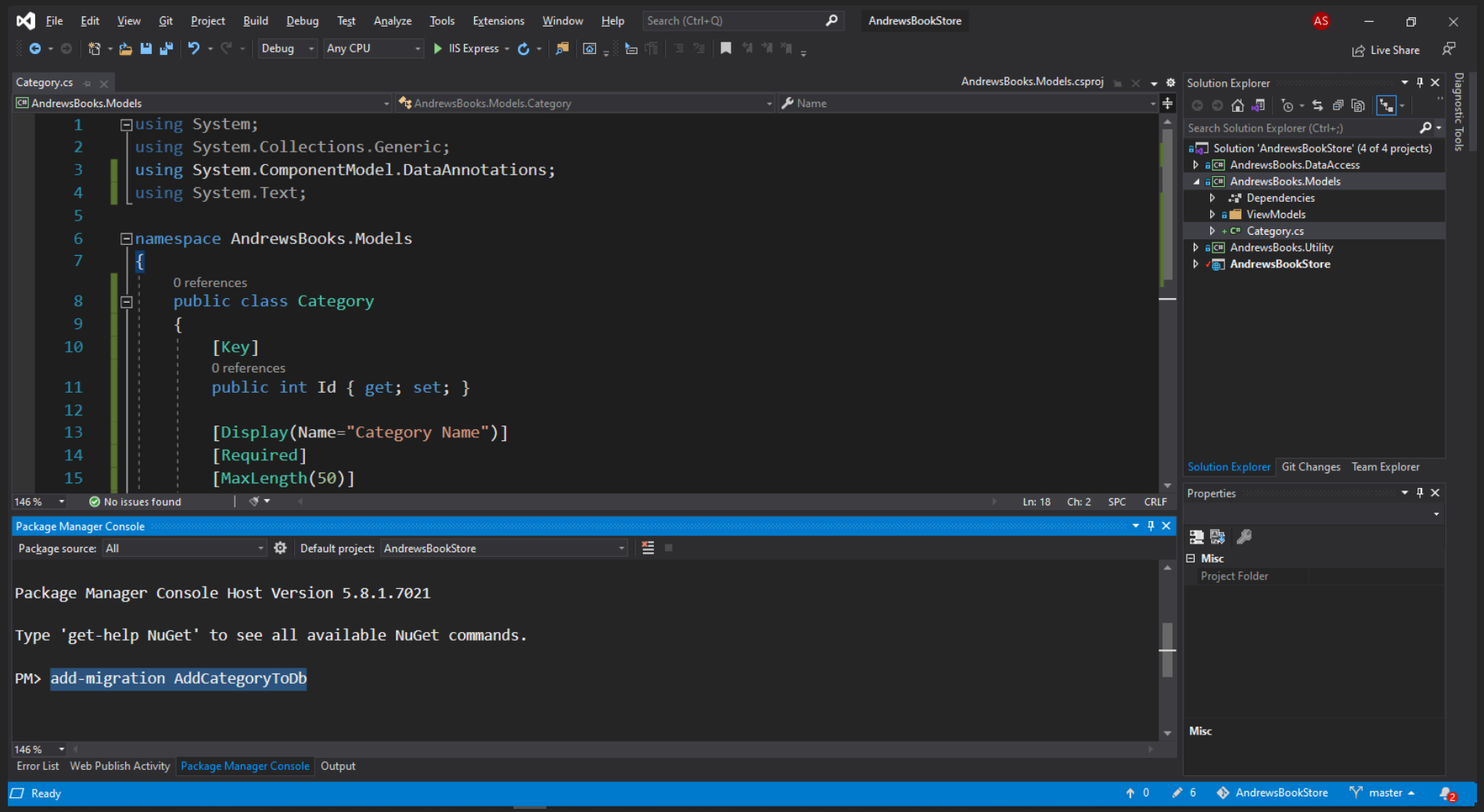

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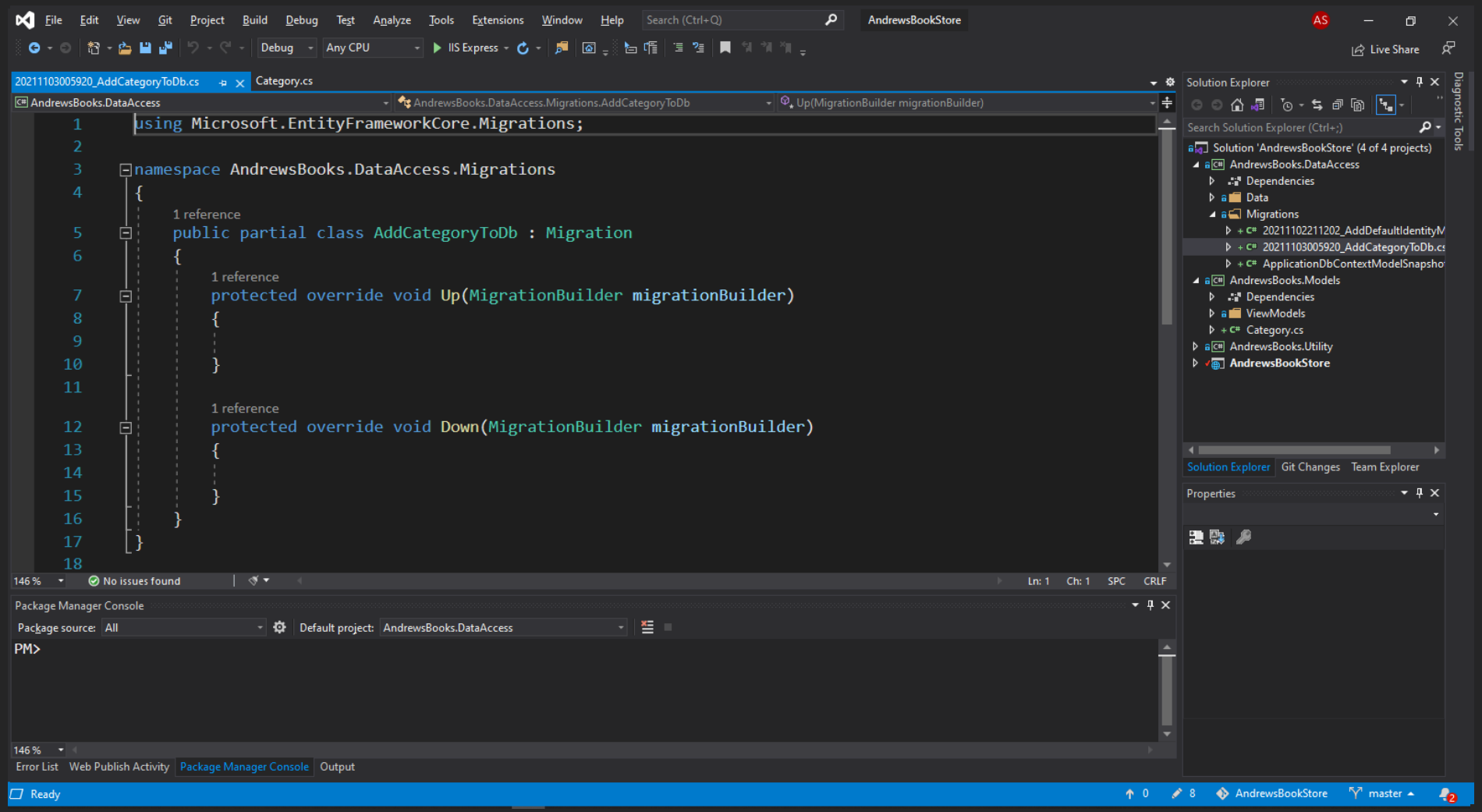

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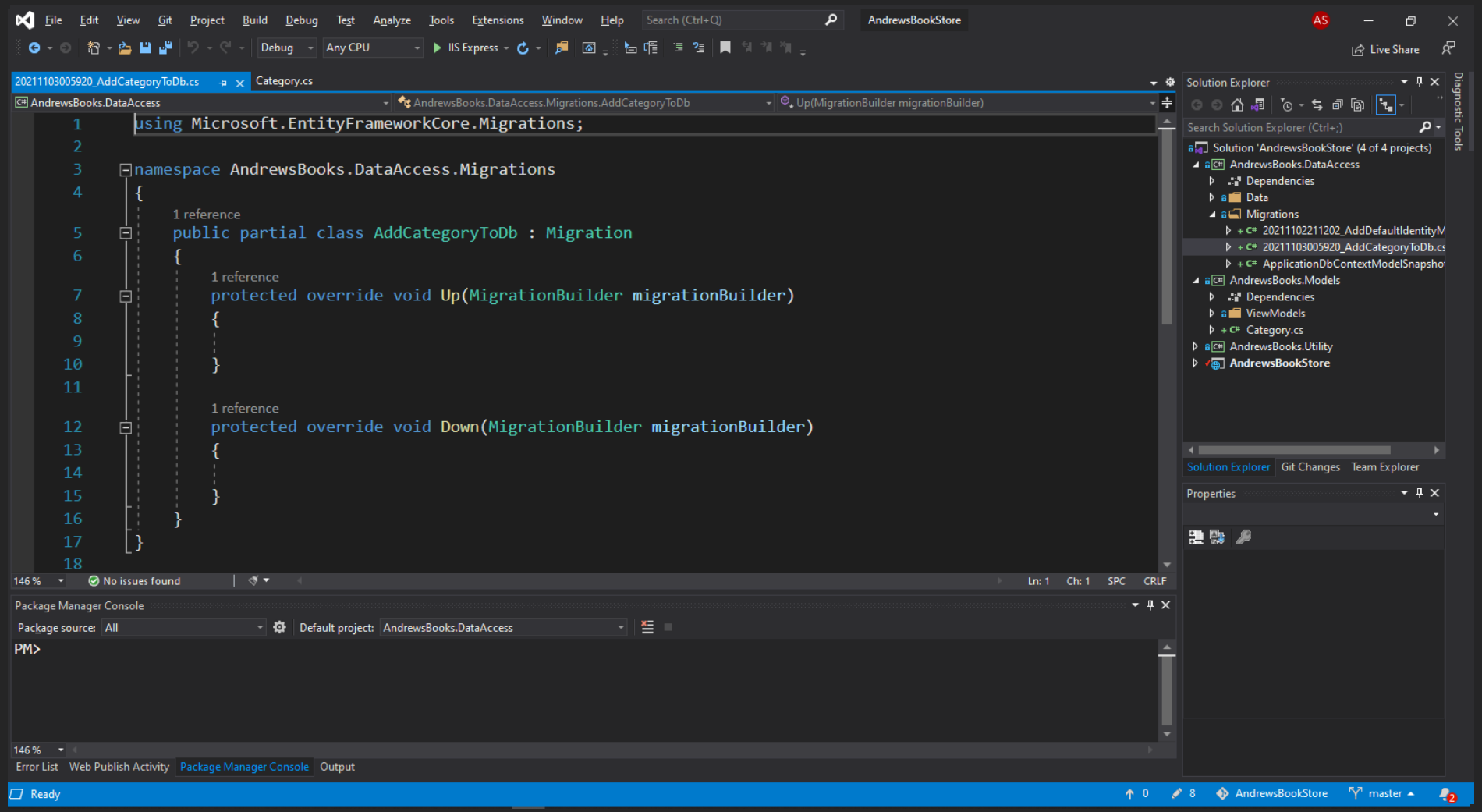

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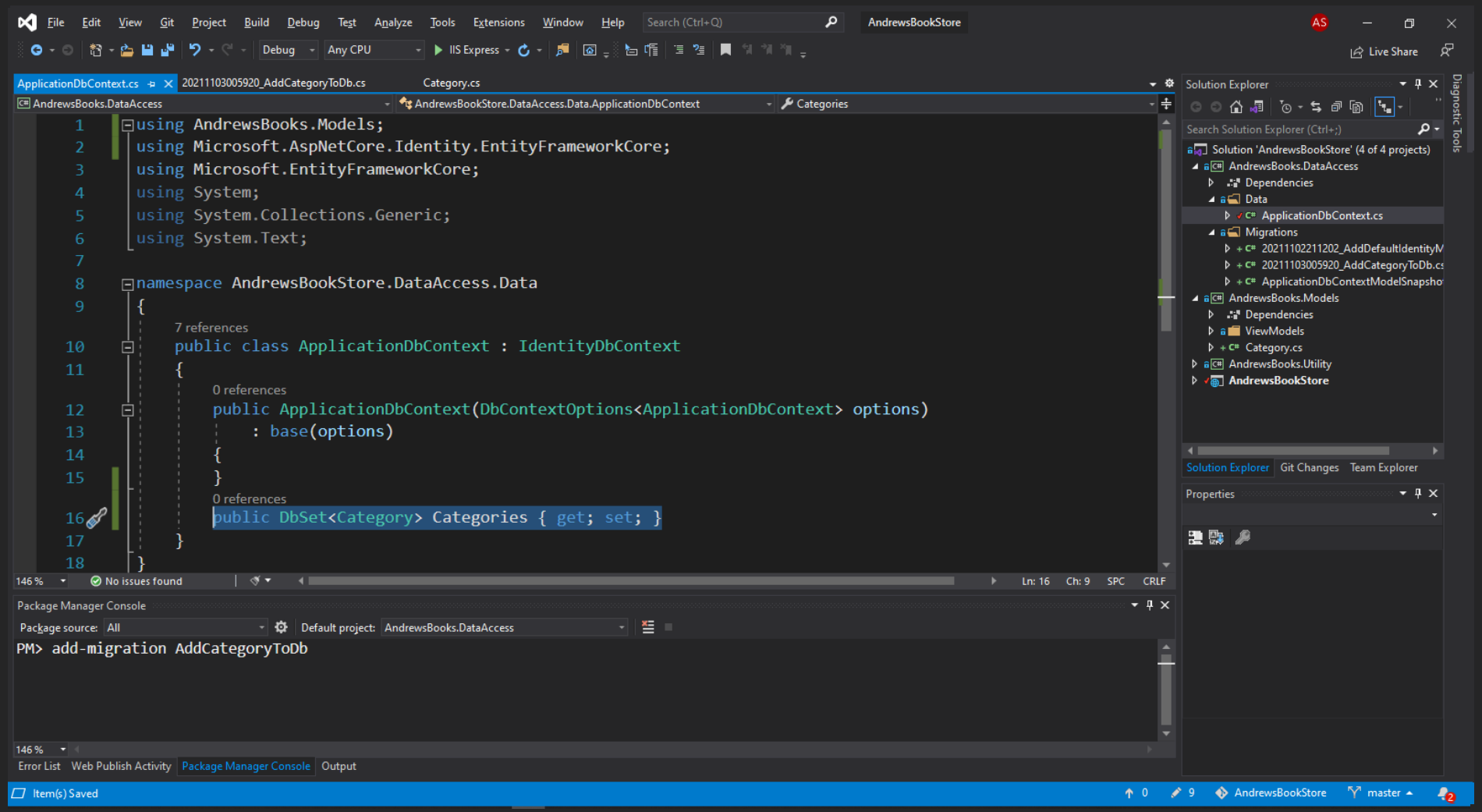

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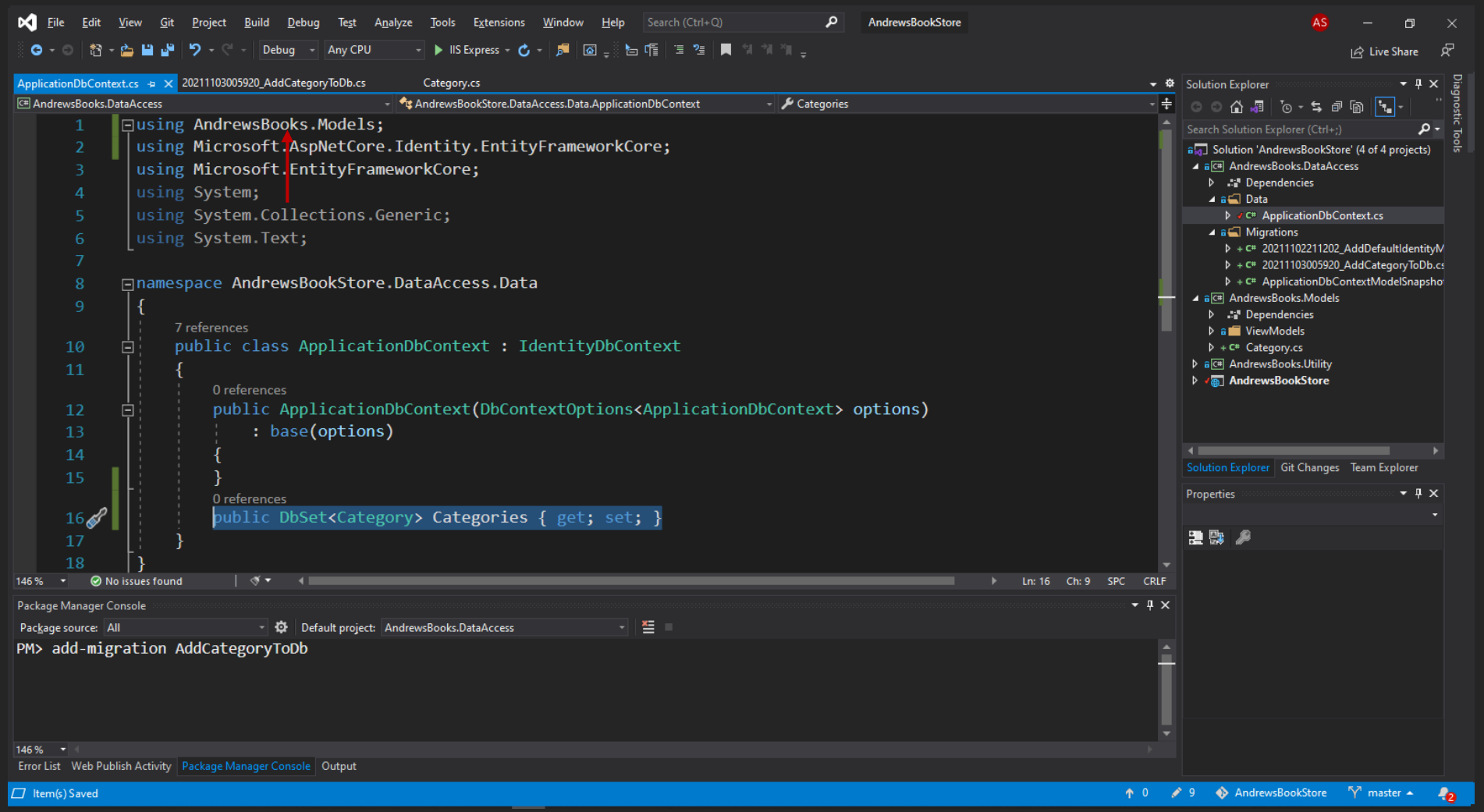

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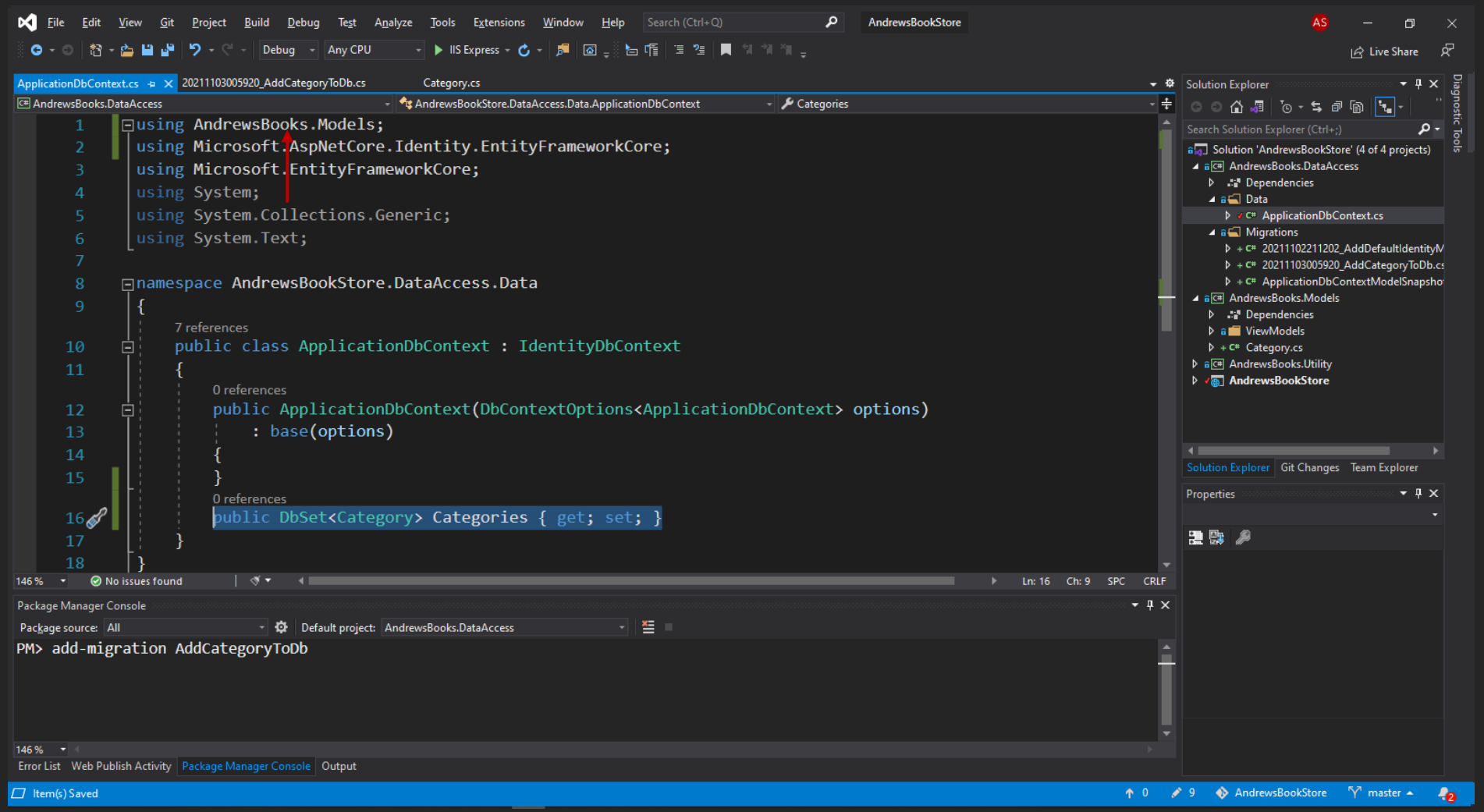

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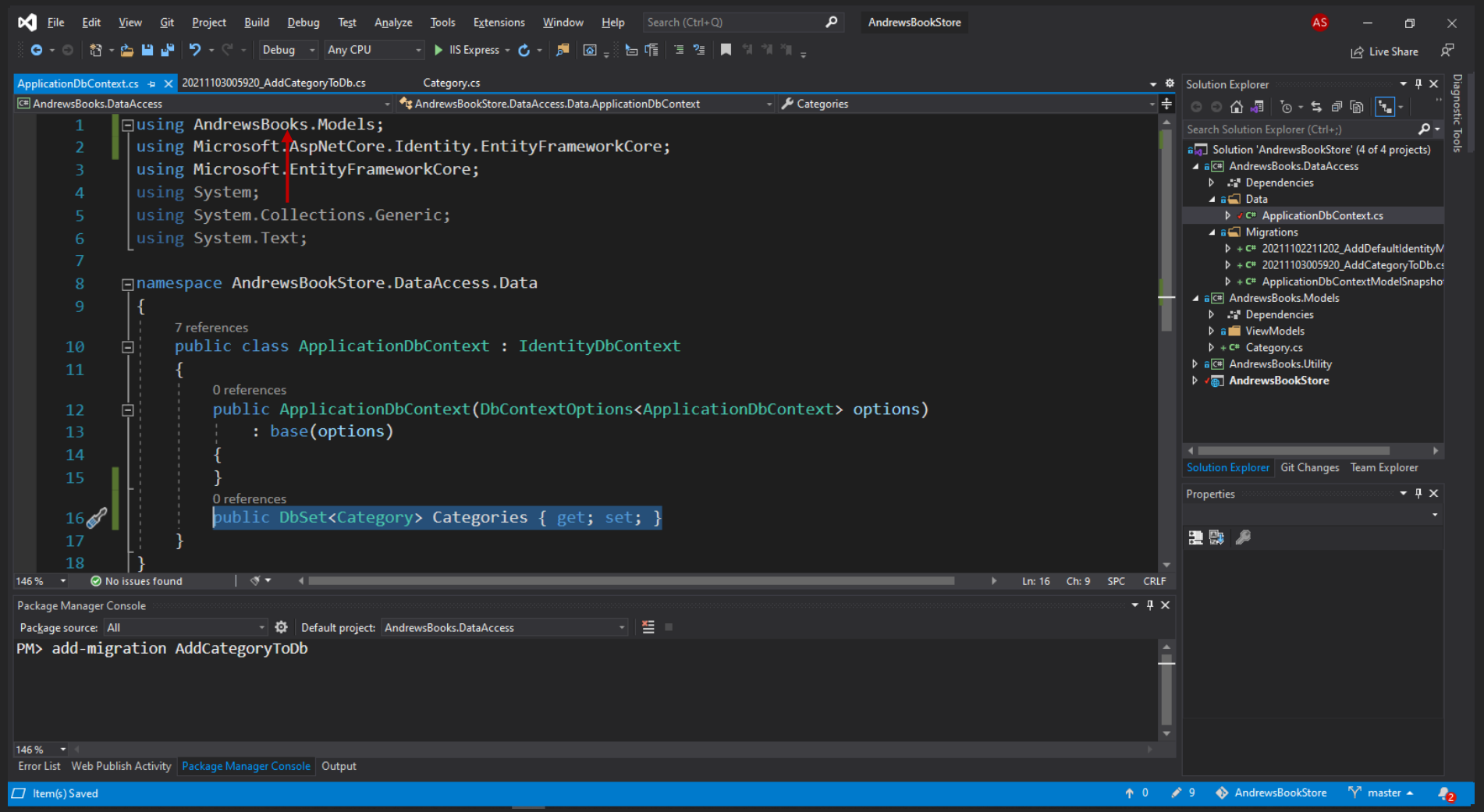

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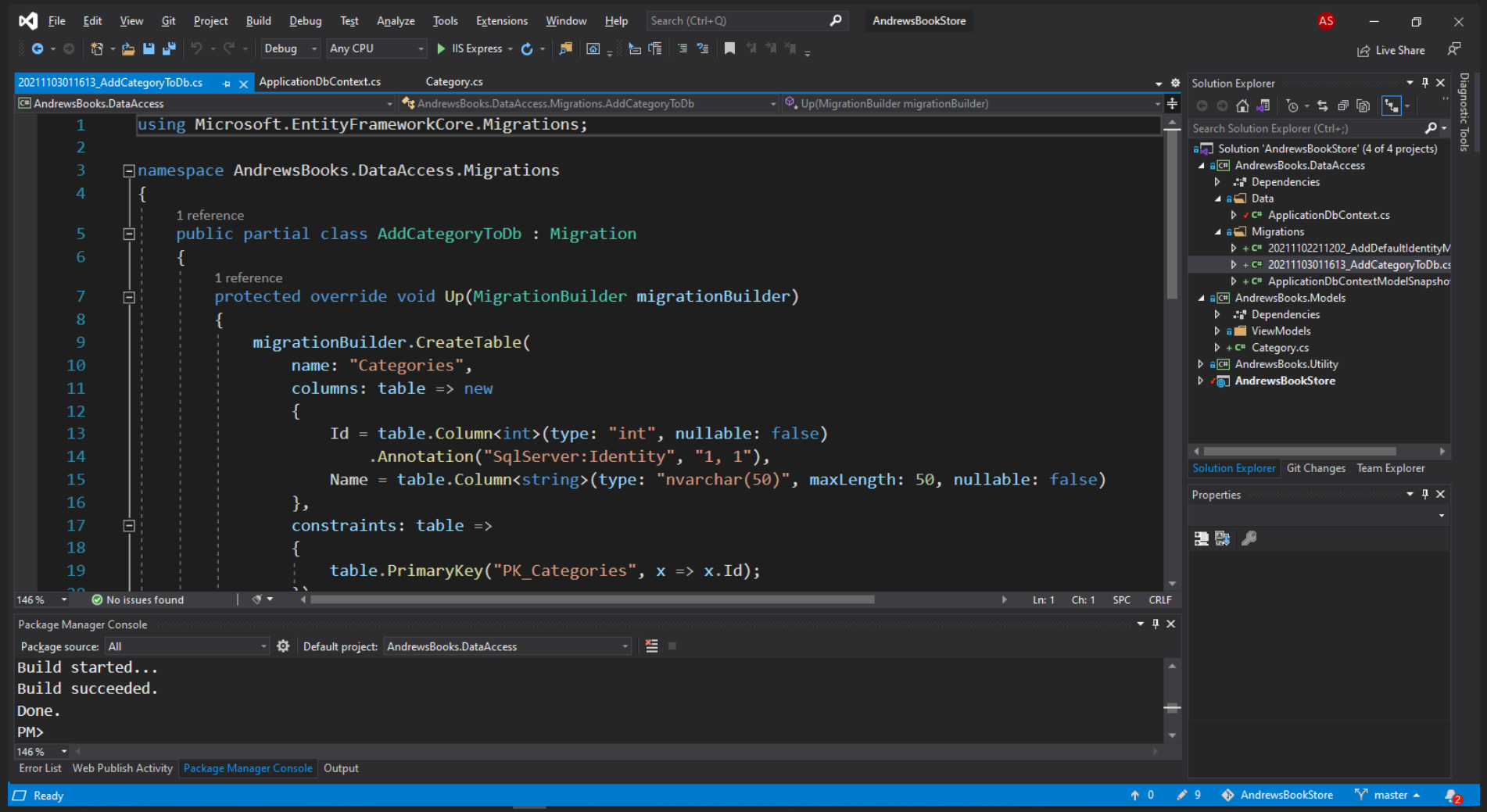
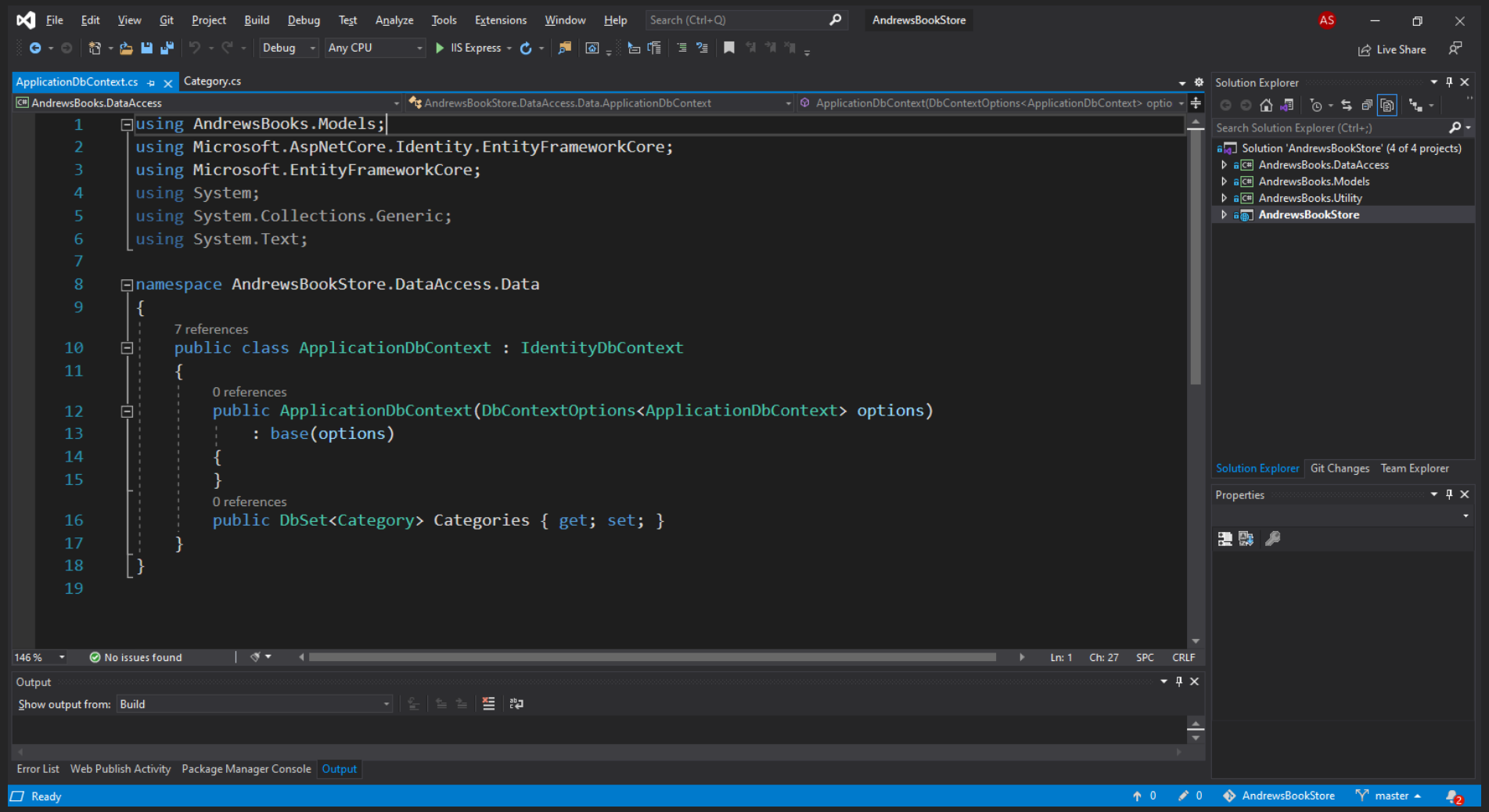


Build the Project (Part 2)

2.2 Repository

- After creating the Category.cs and adding it to the ApplicationDbContext it's time to implement the Repository, a generic way of accessing common functionality (e.g. getting a record), in the .DataAccess project.



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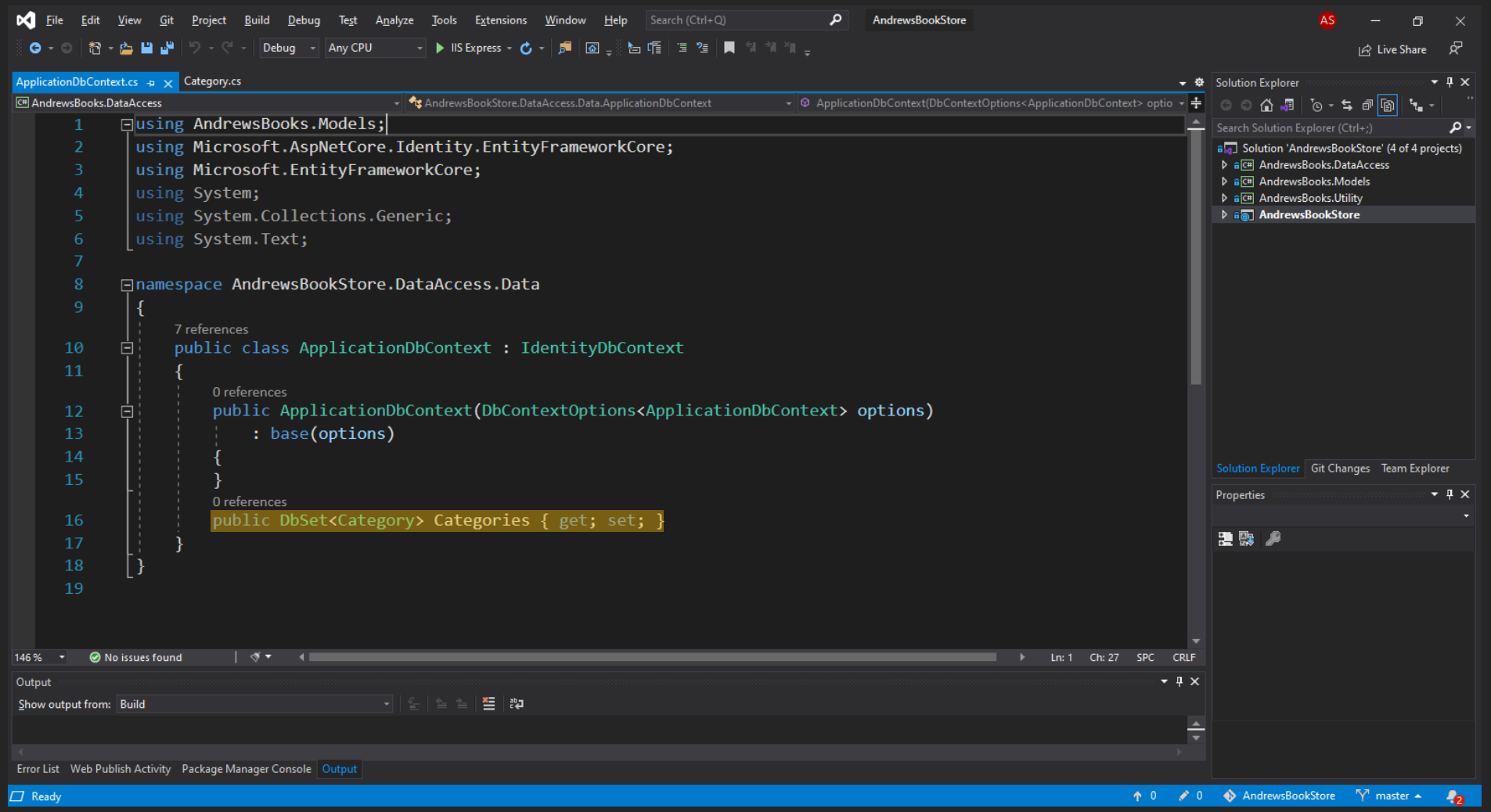

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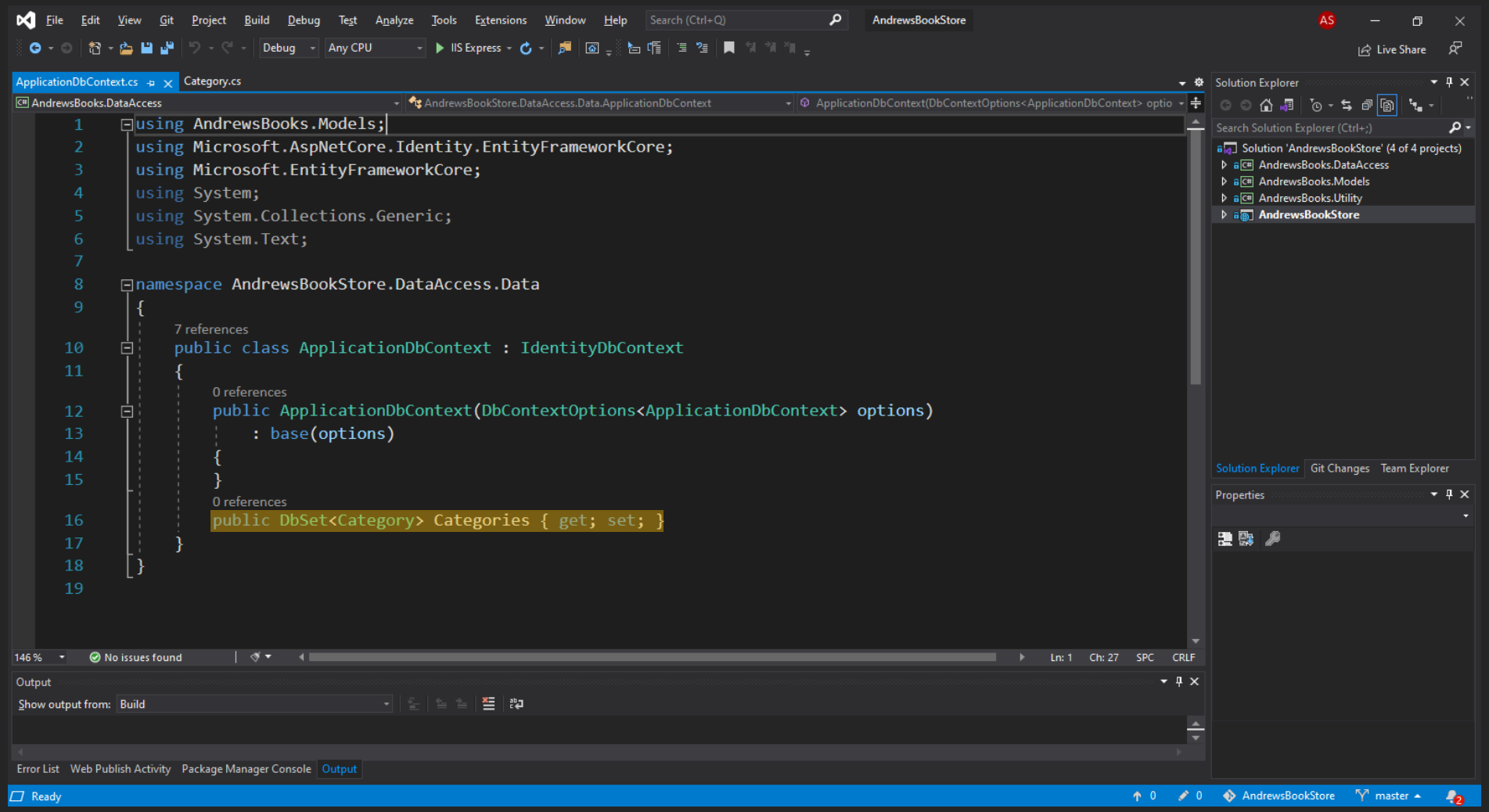

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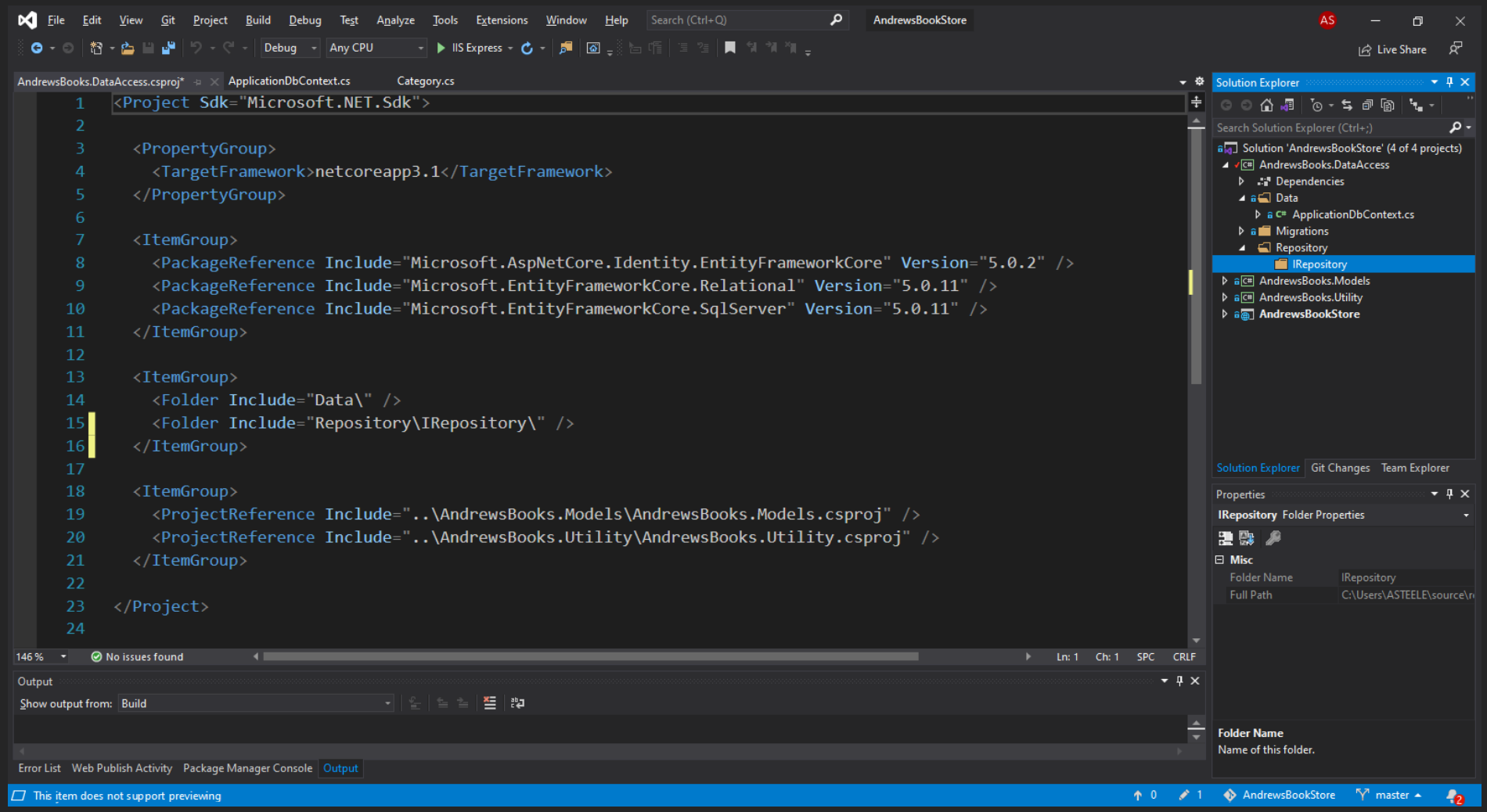

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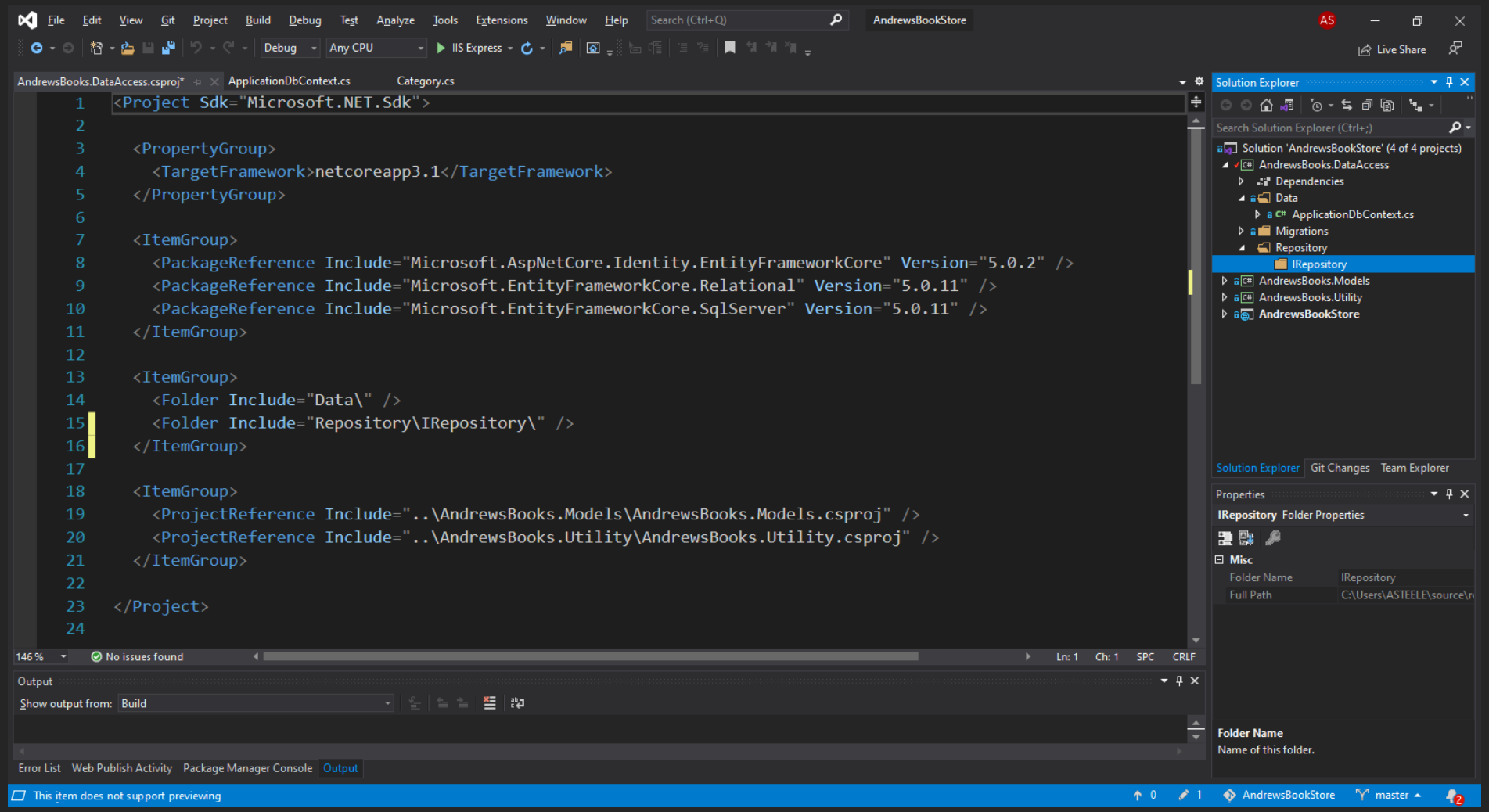

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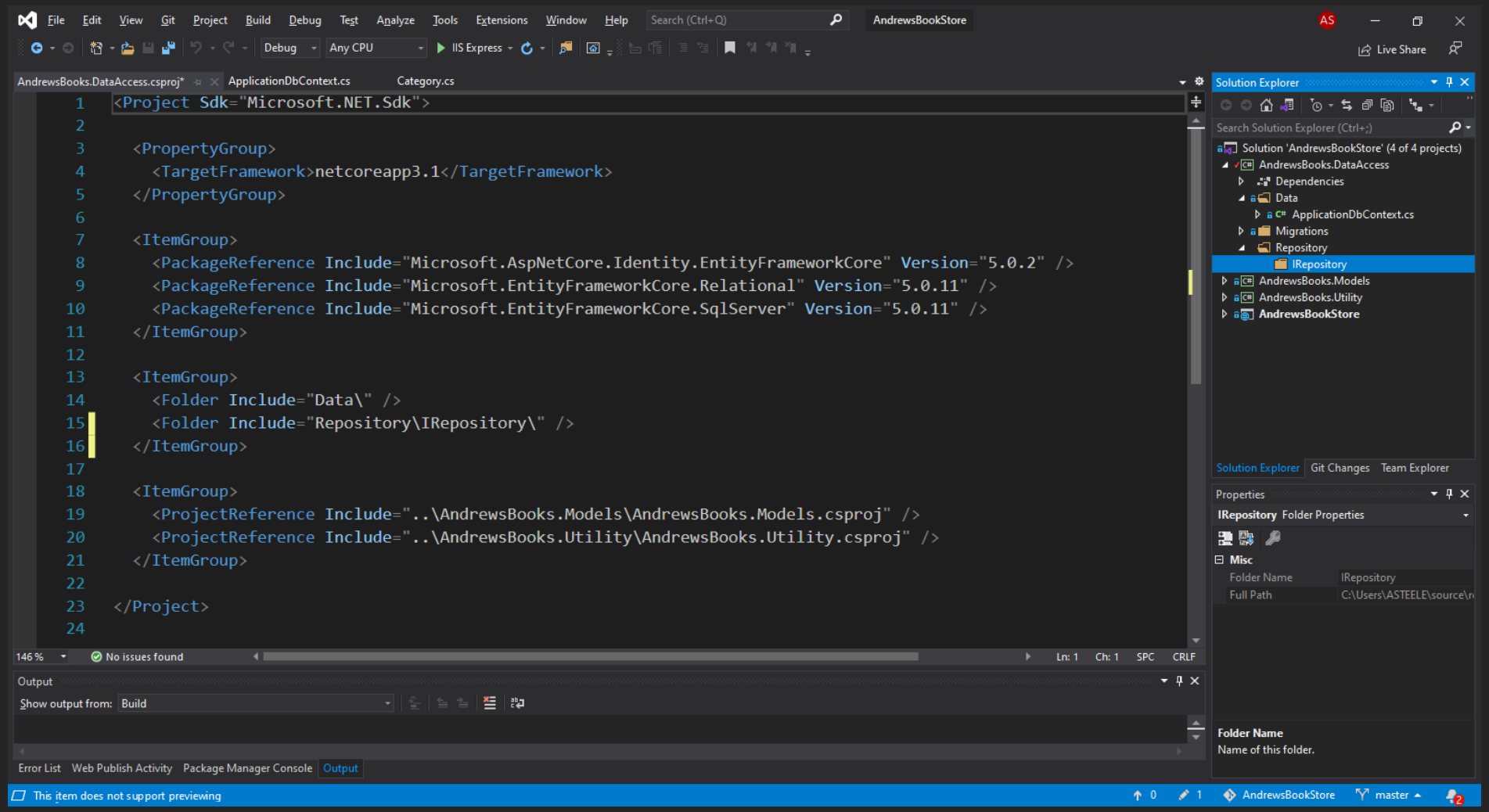

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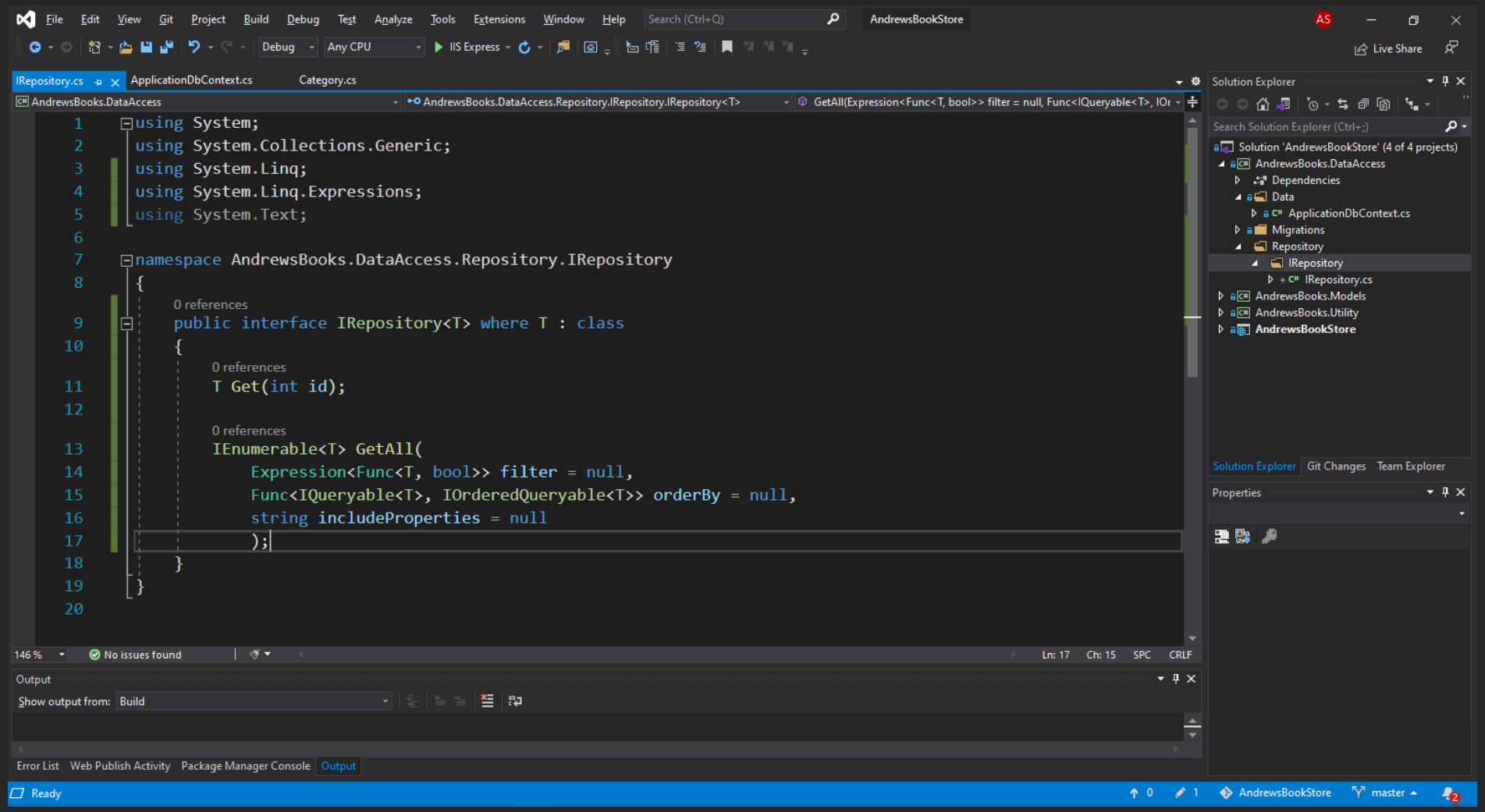

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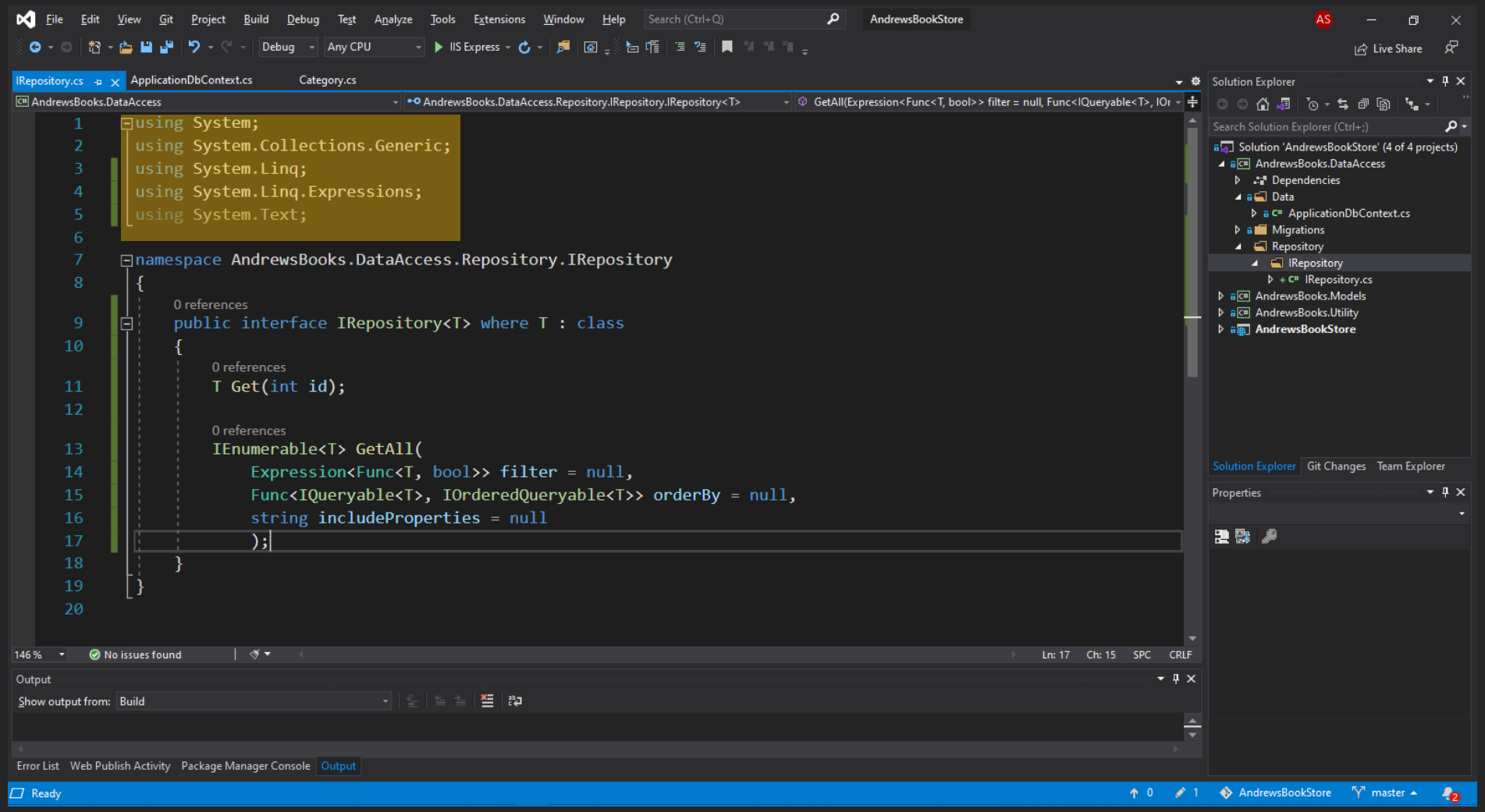

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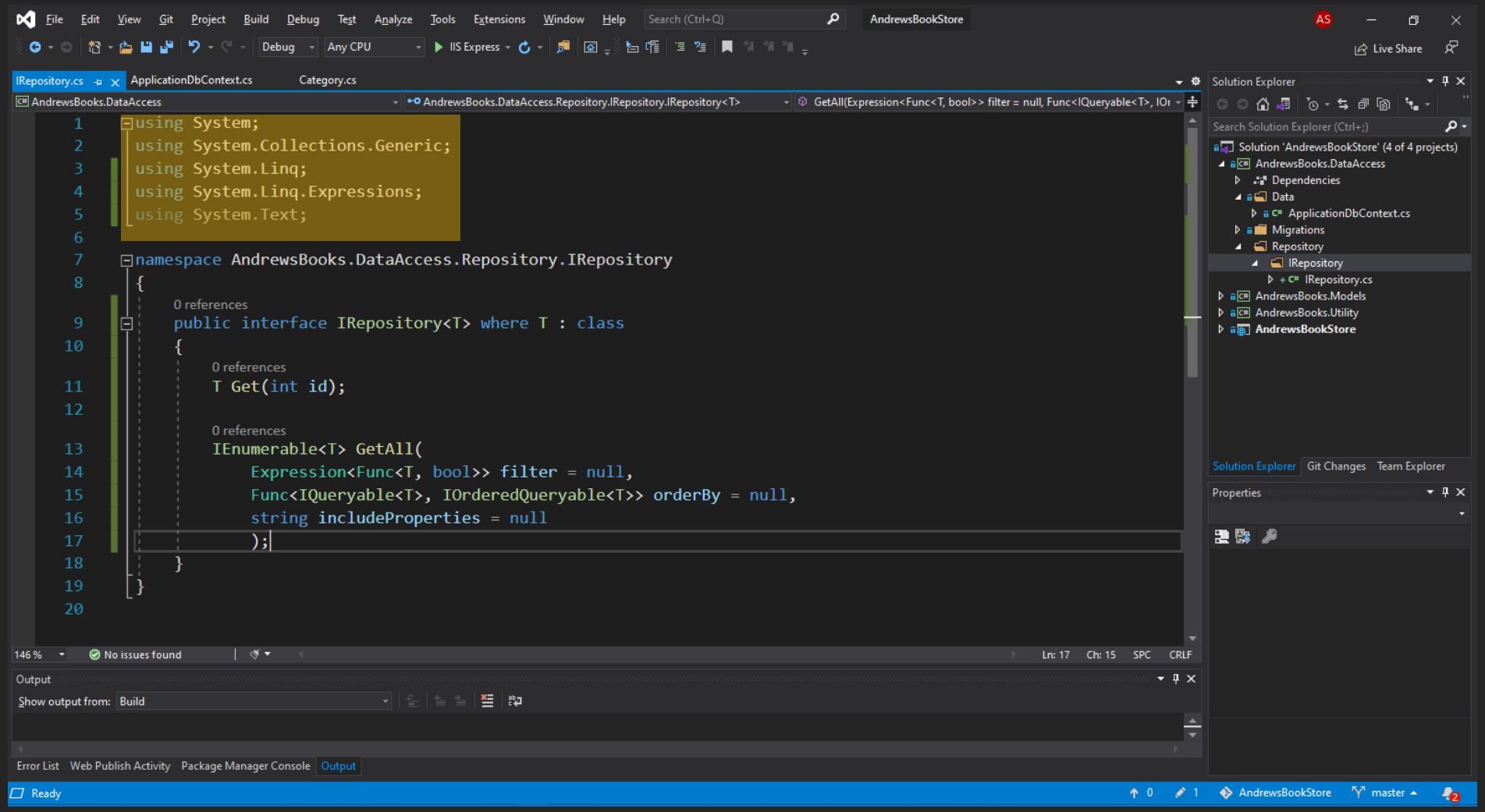

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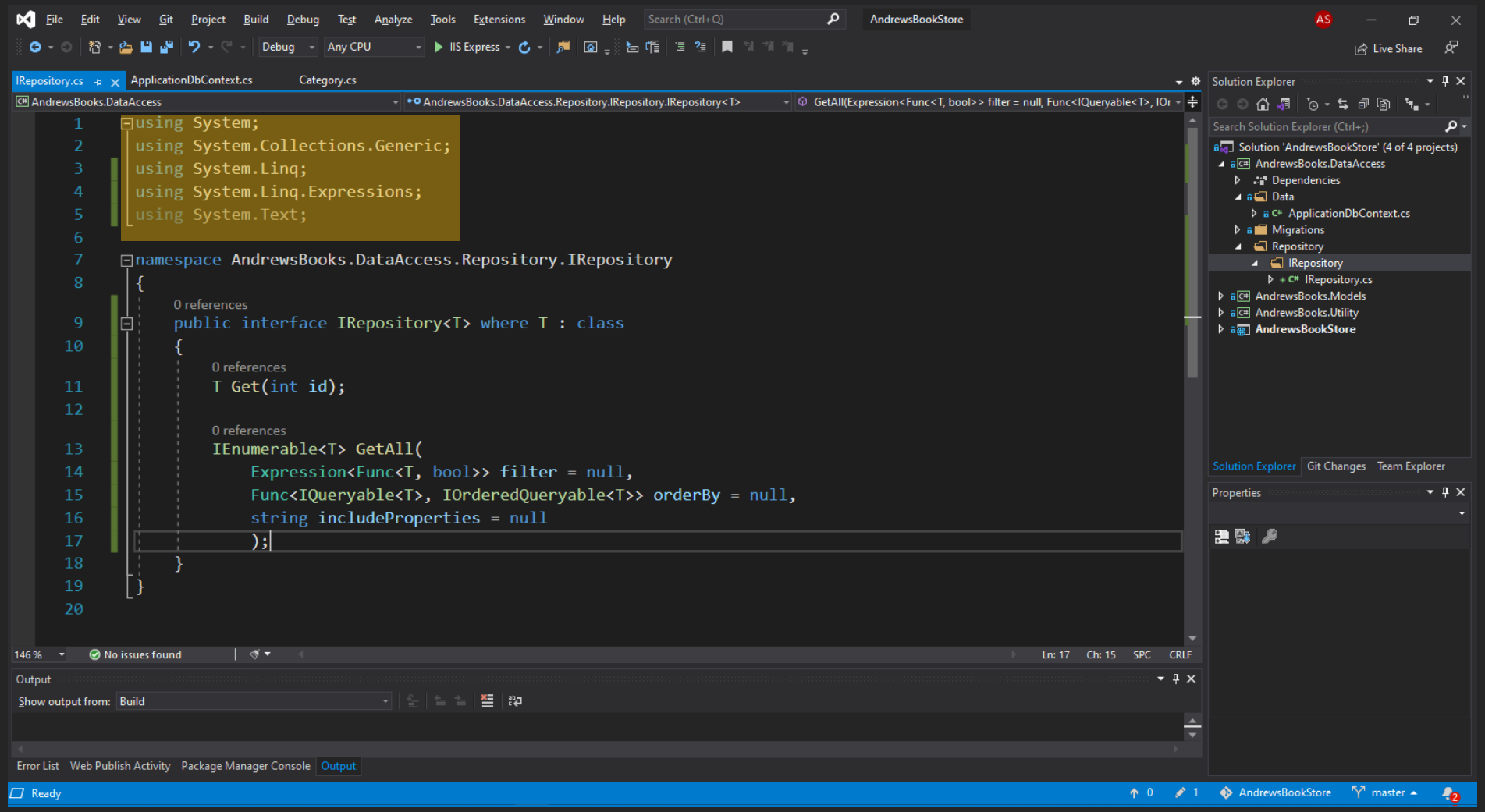

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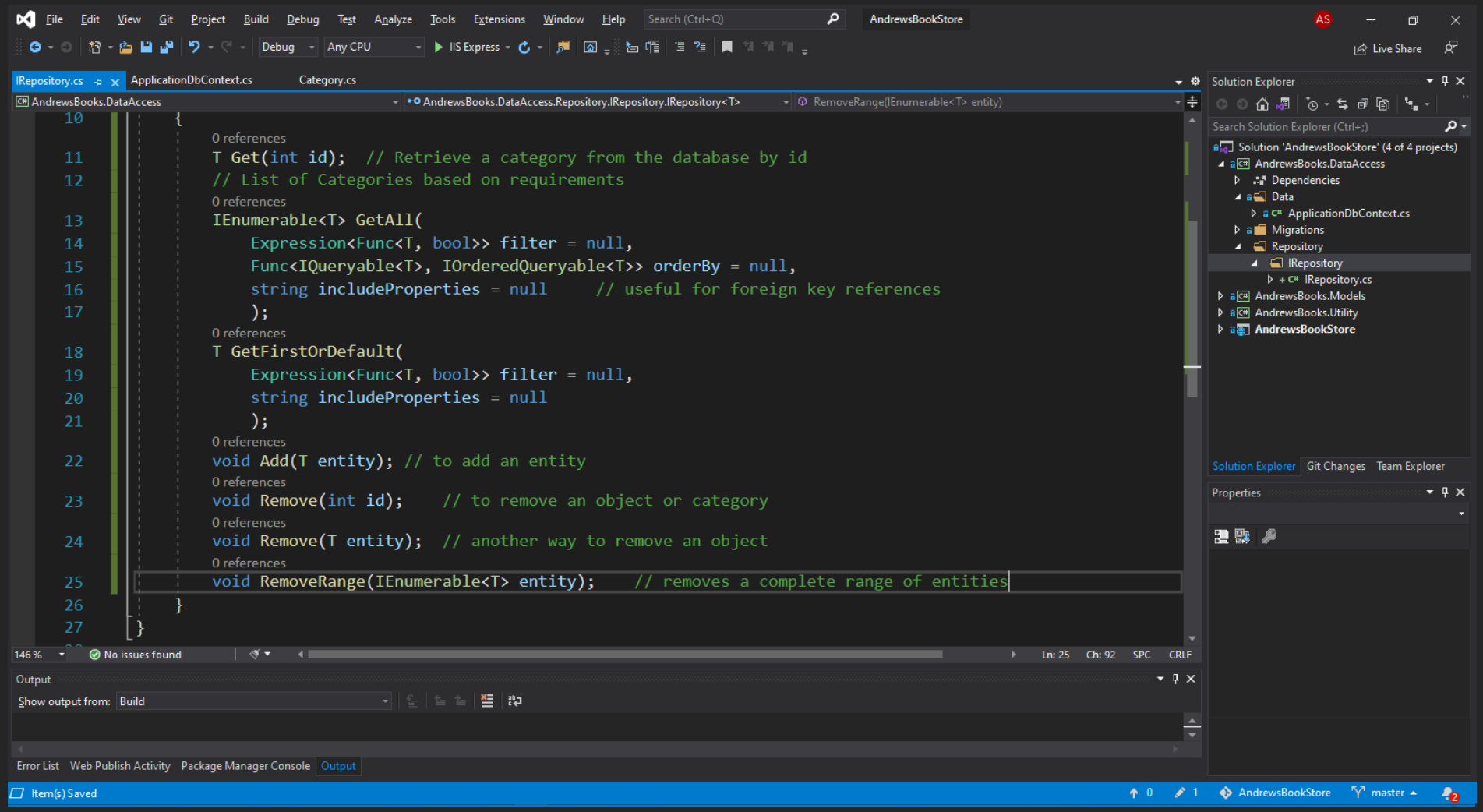

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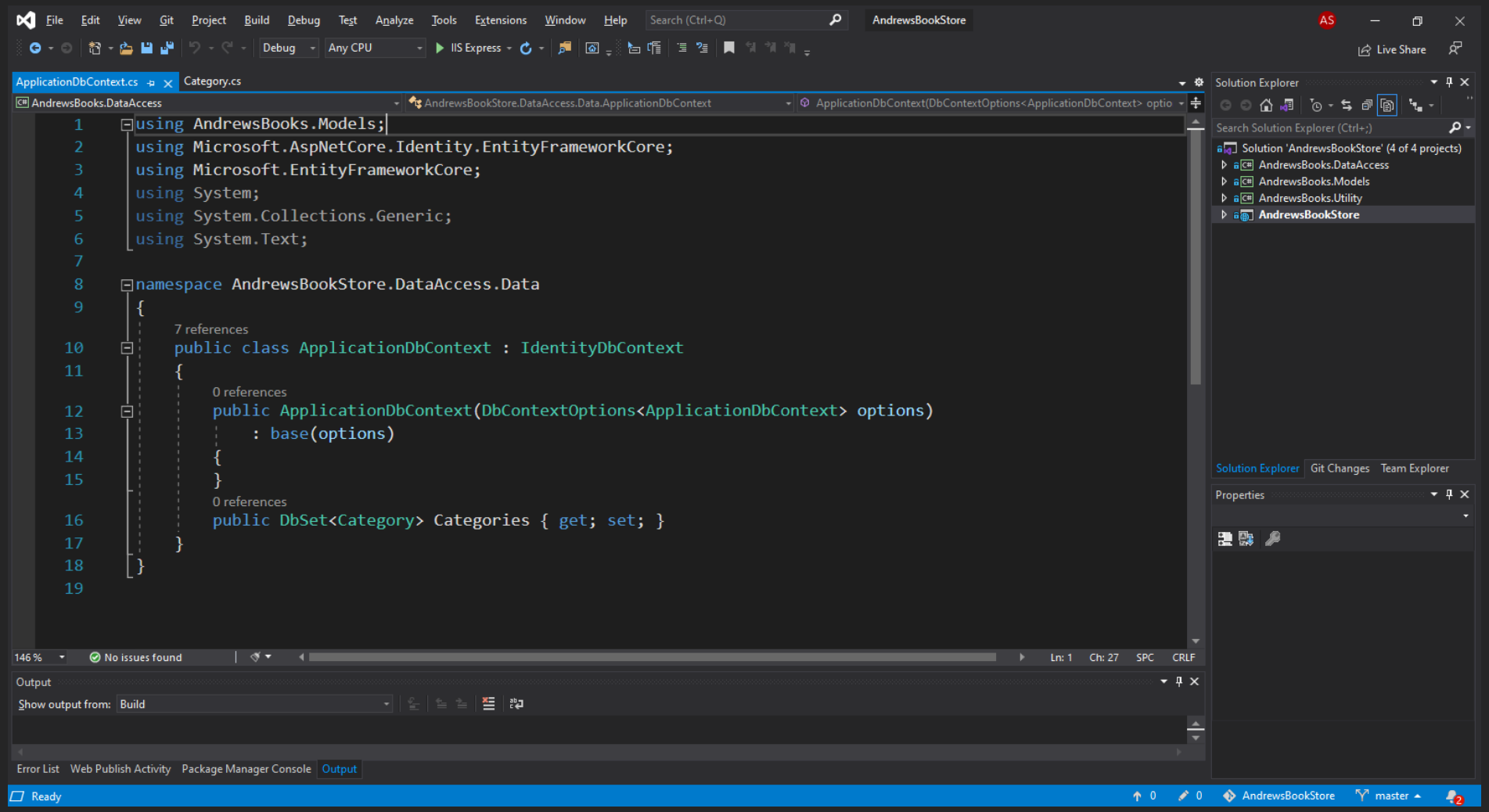

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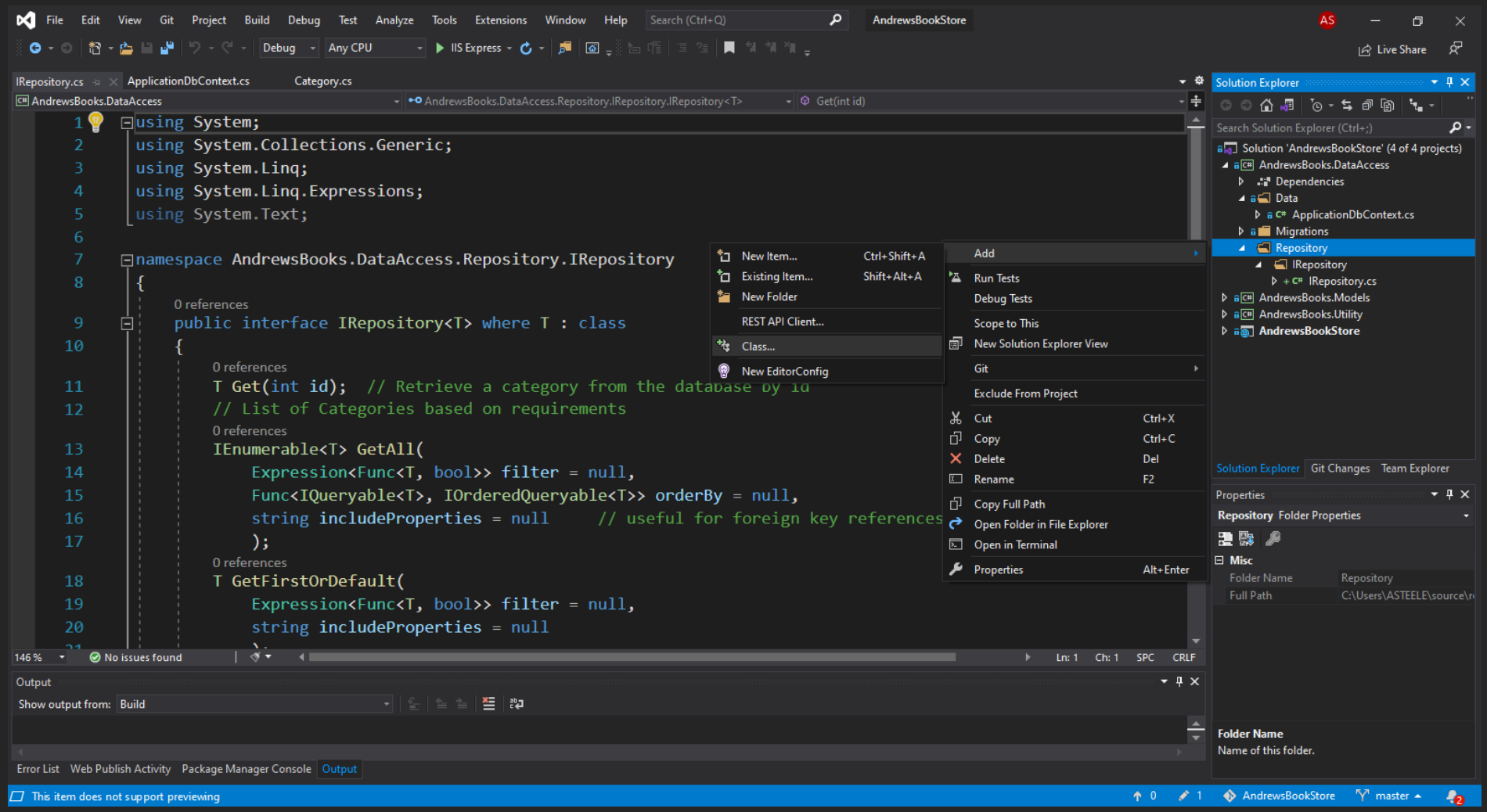

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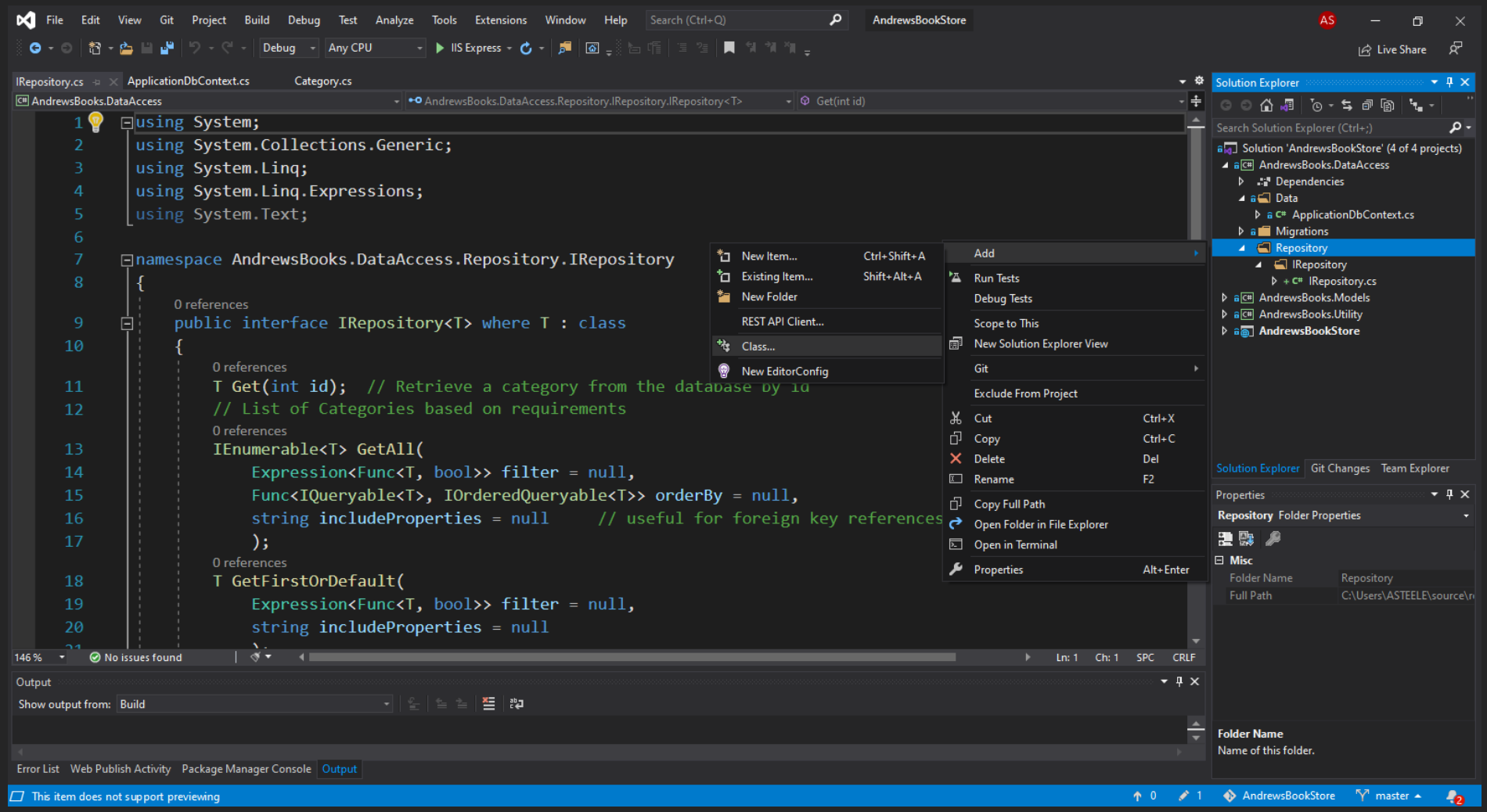

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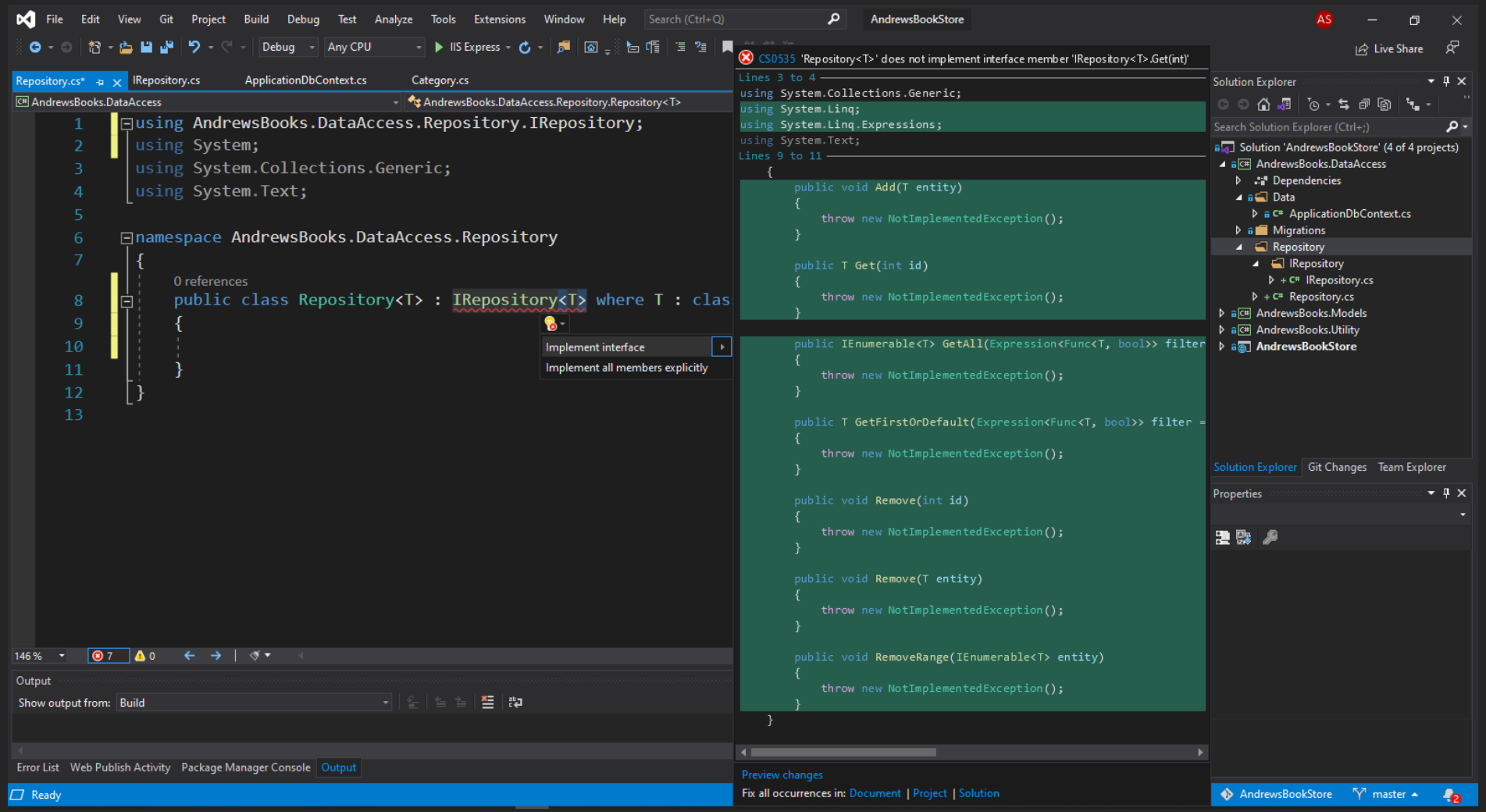

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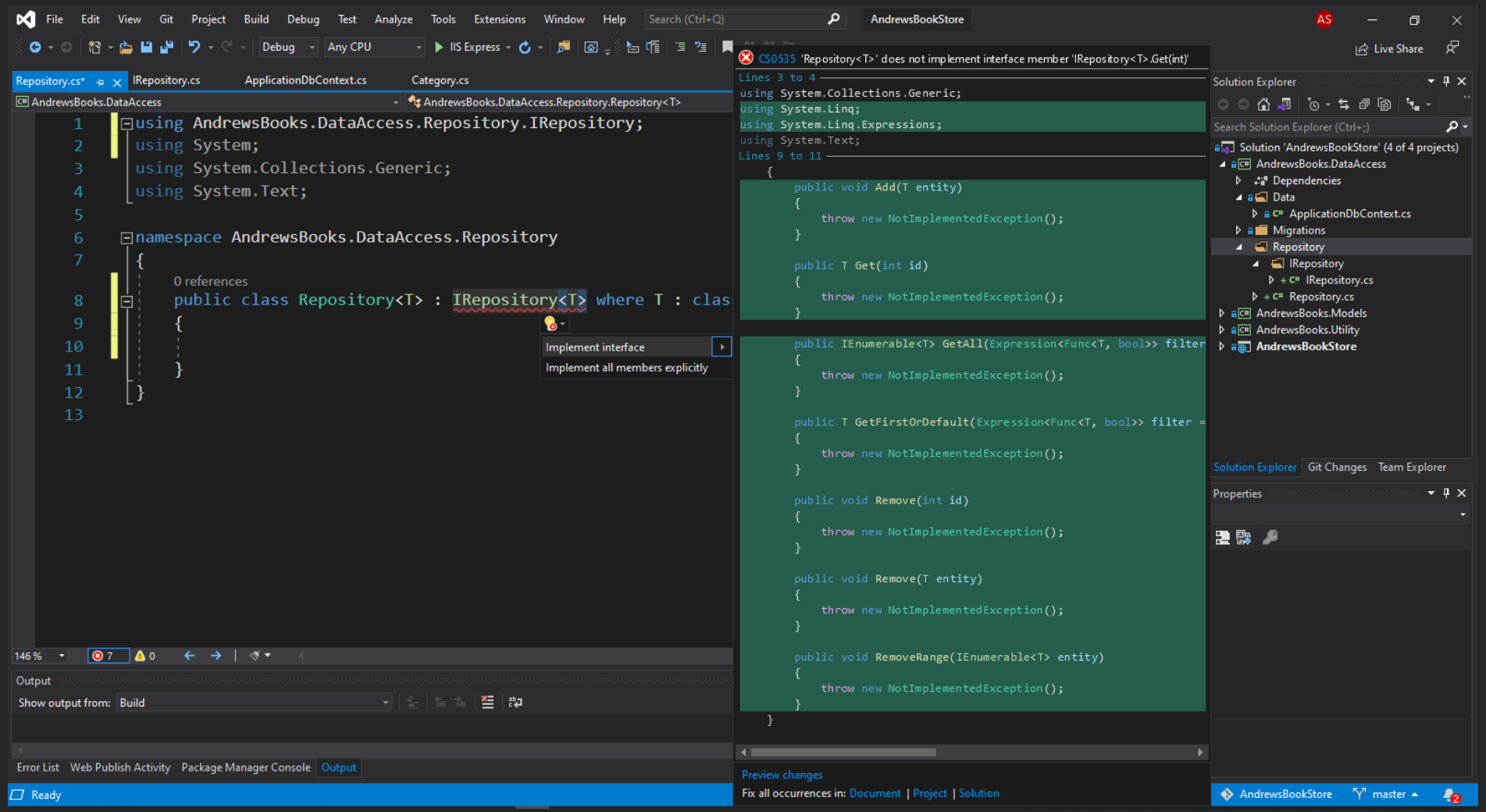

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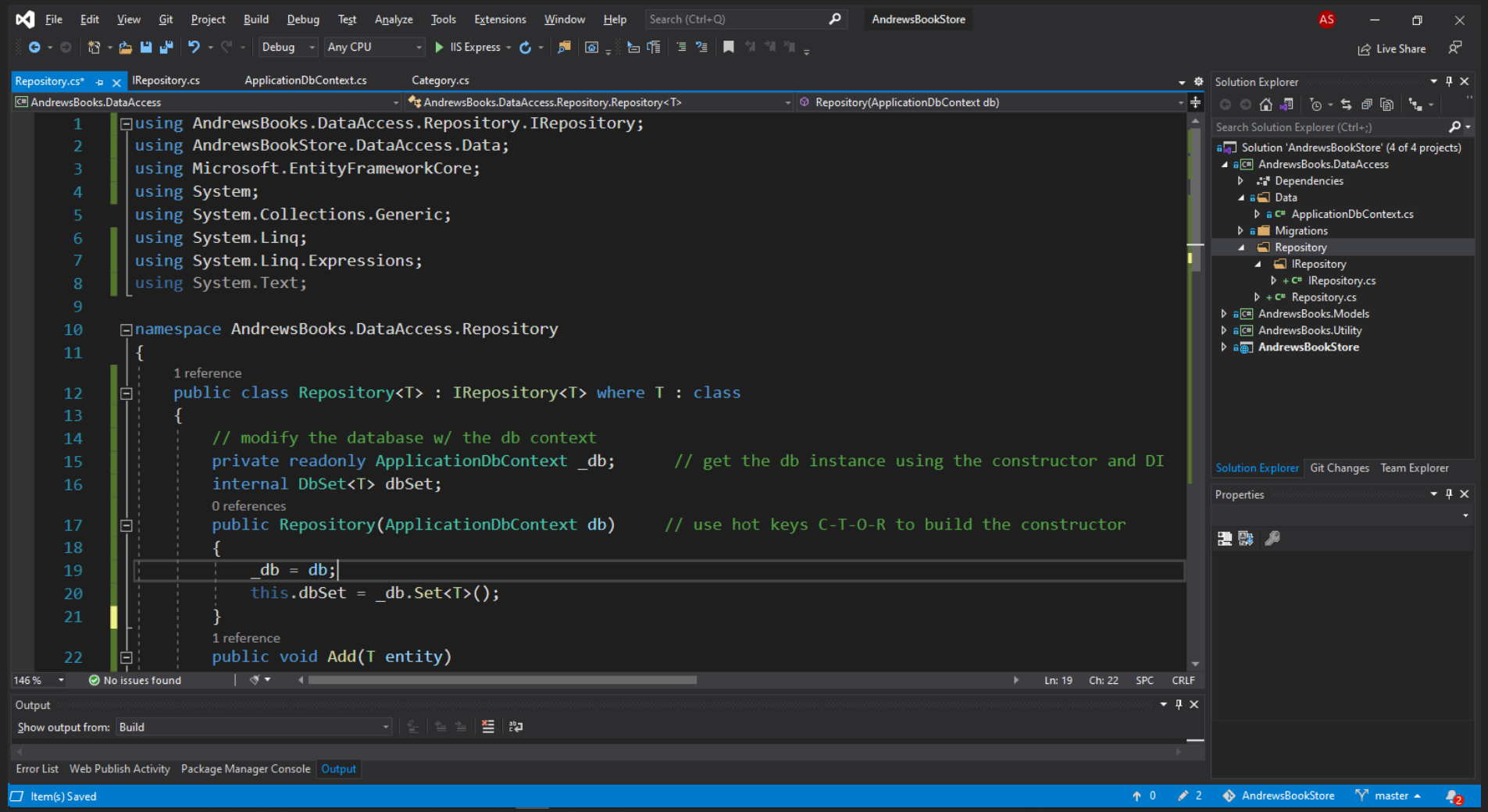

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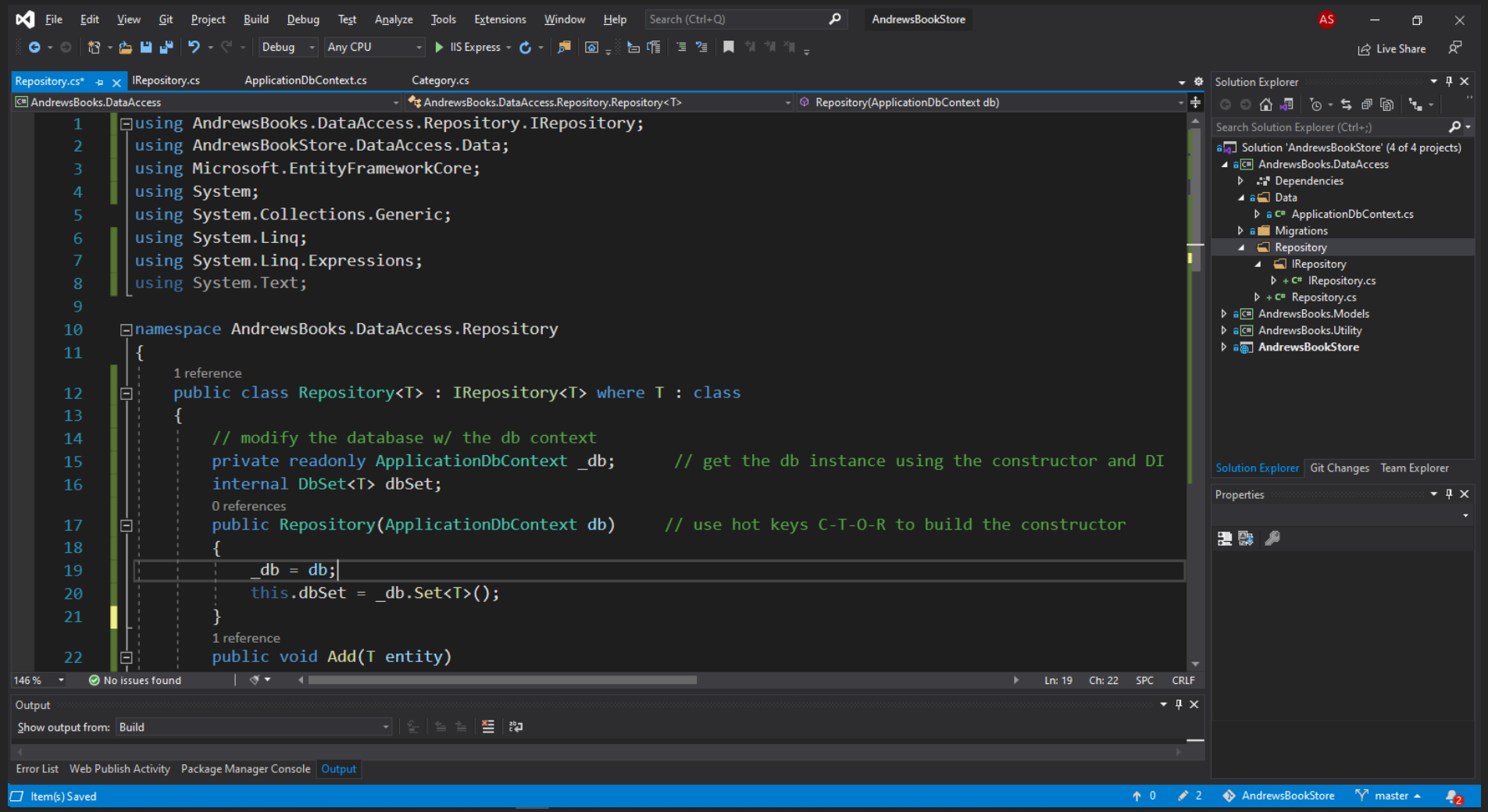

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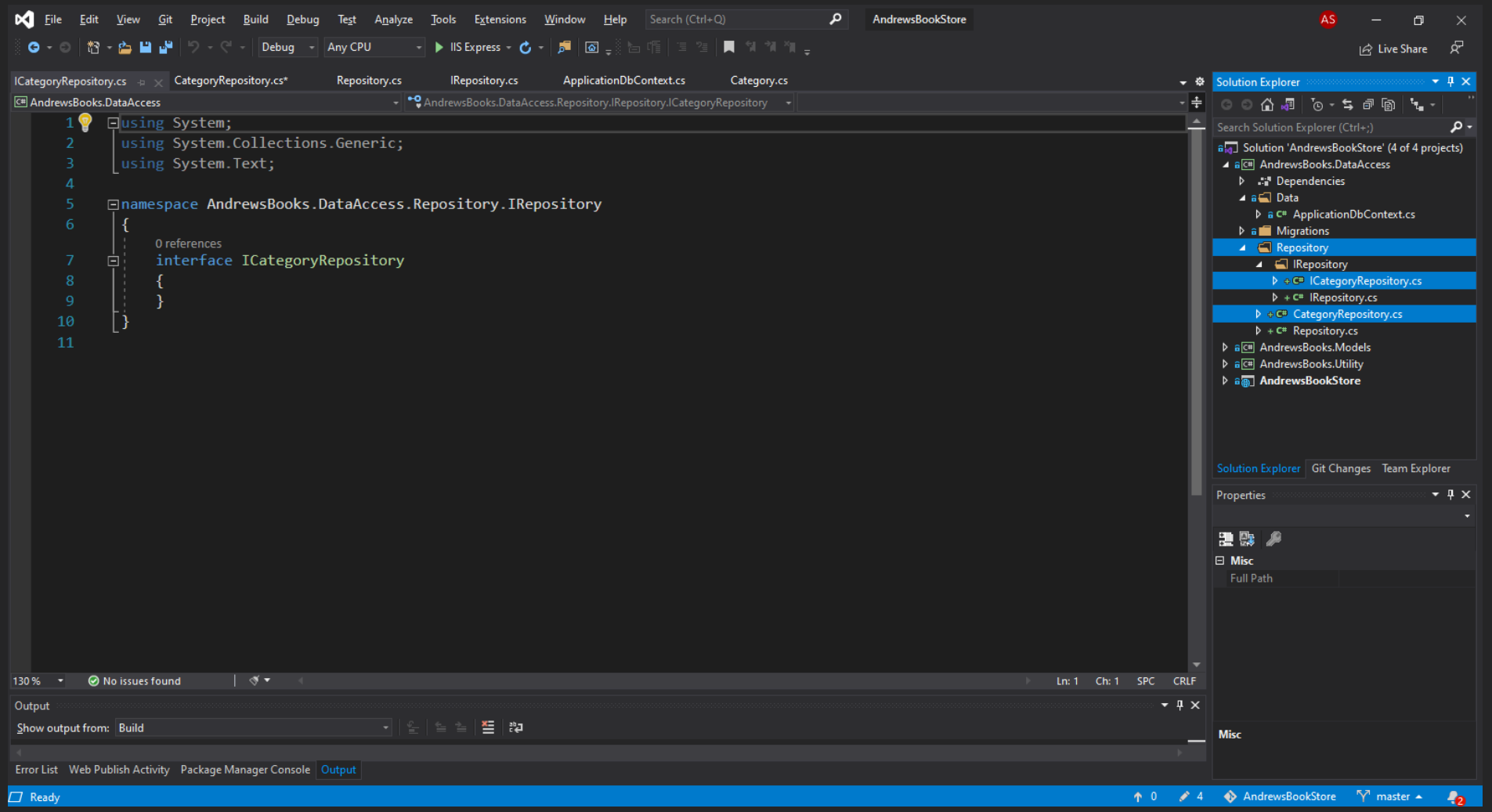

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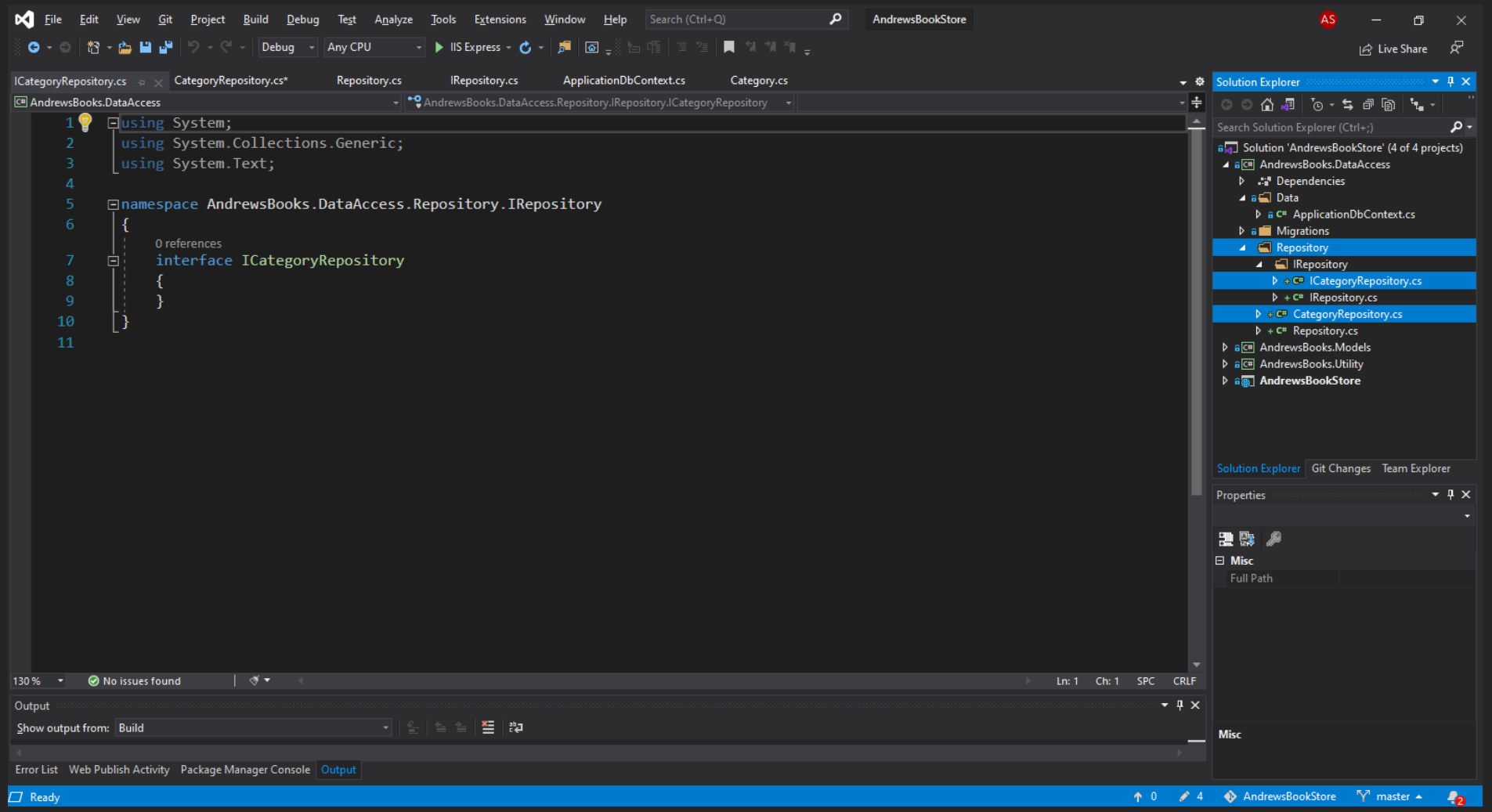

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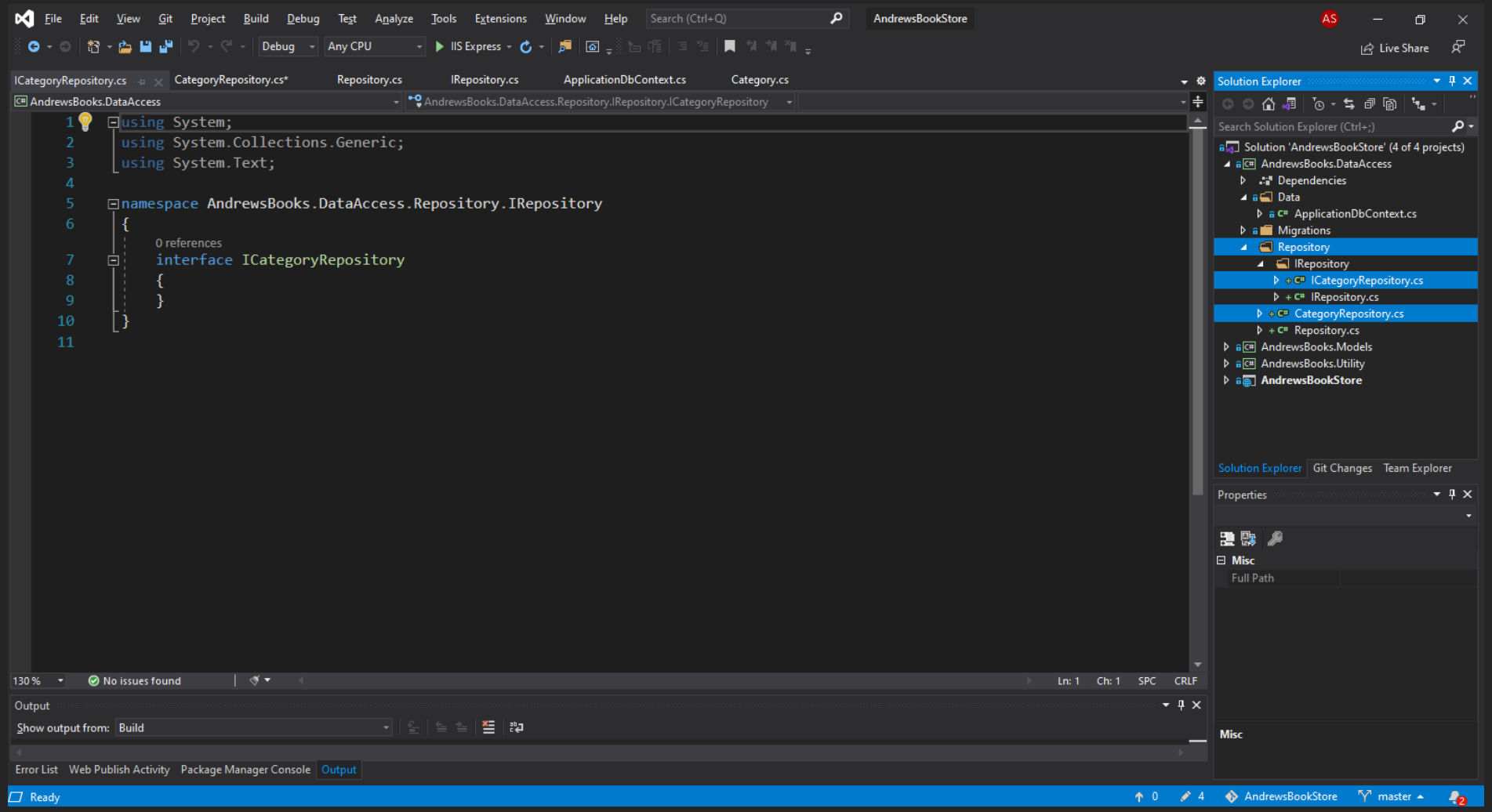

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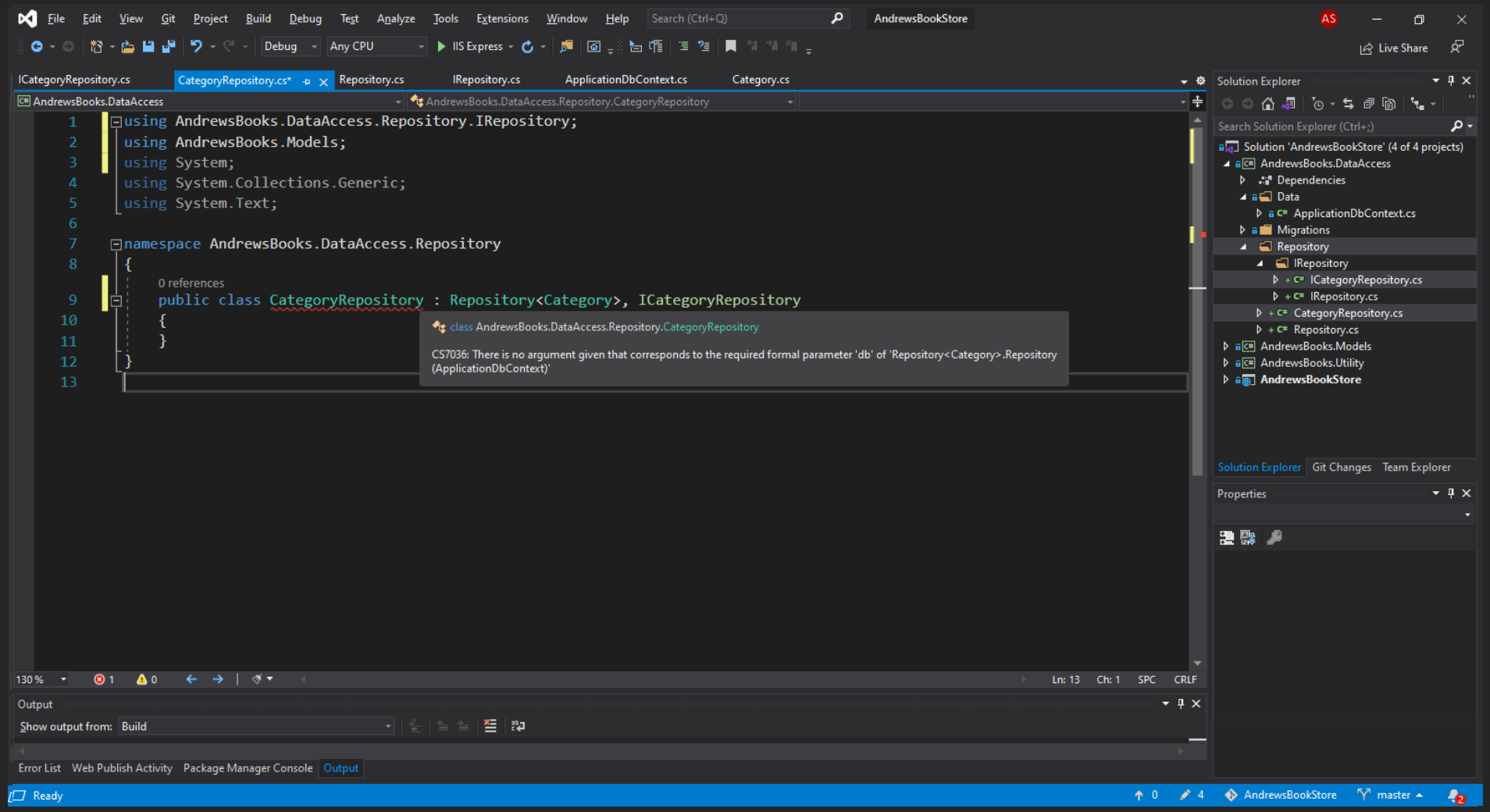

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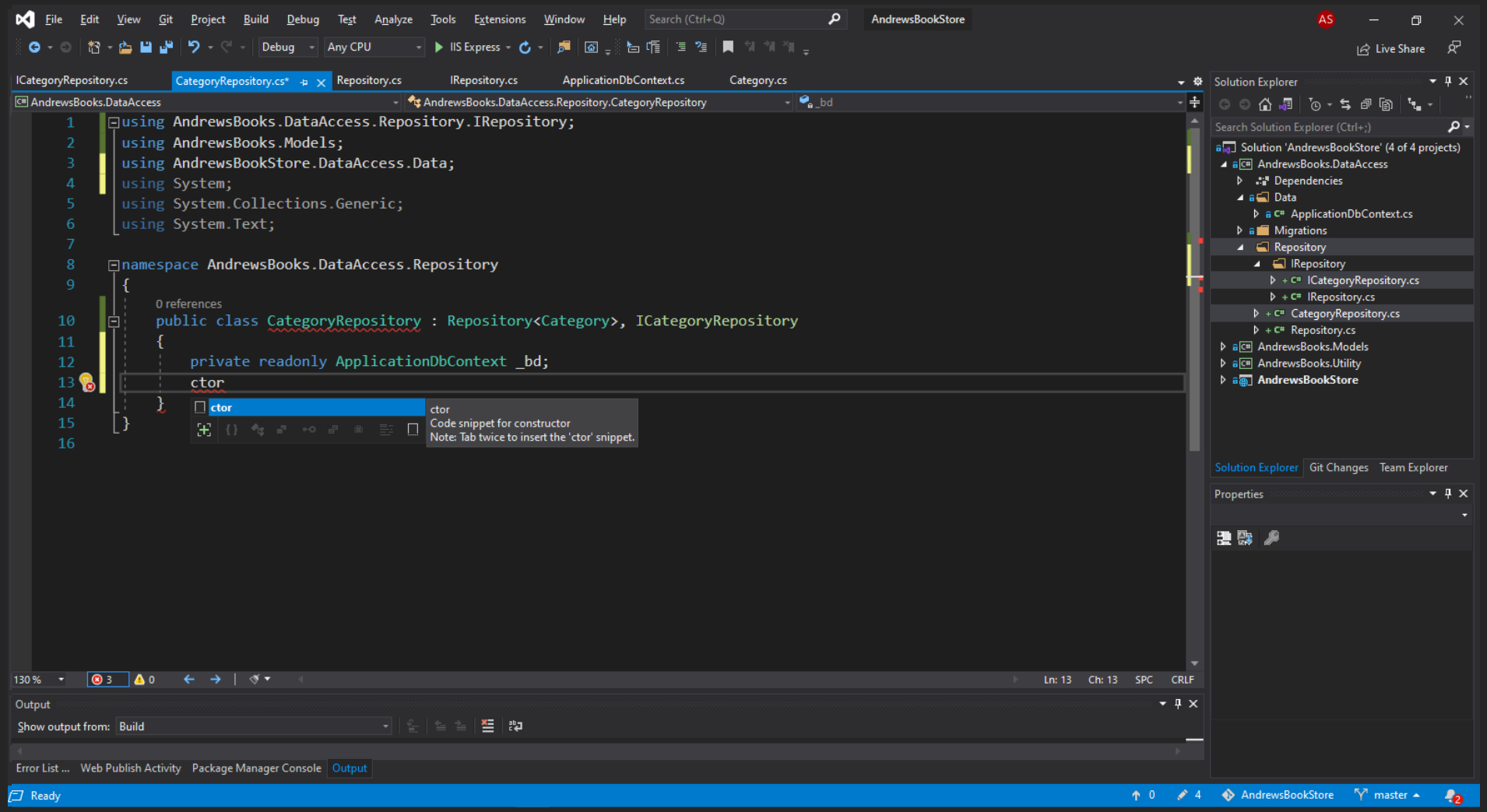

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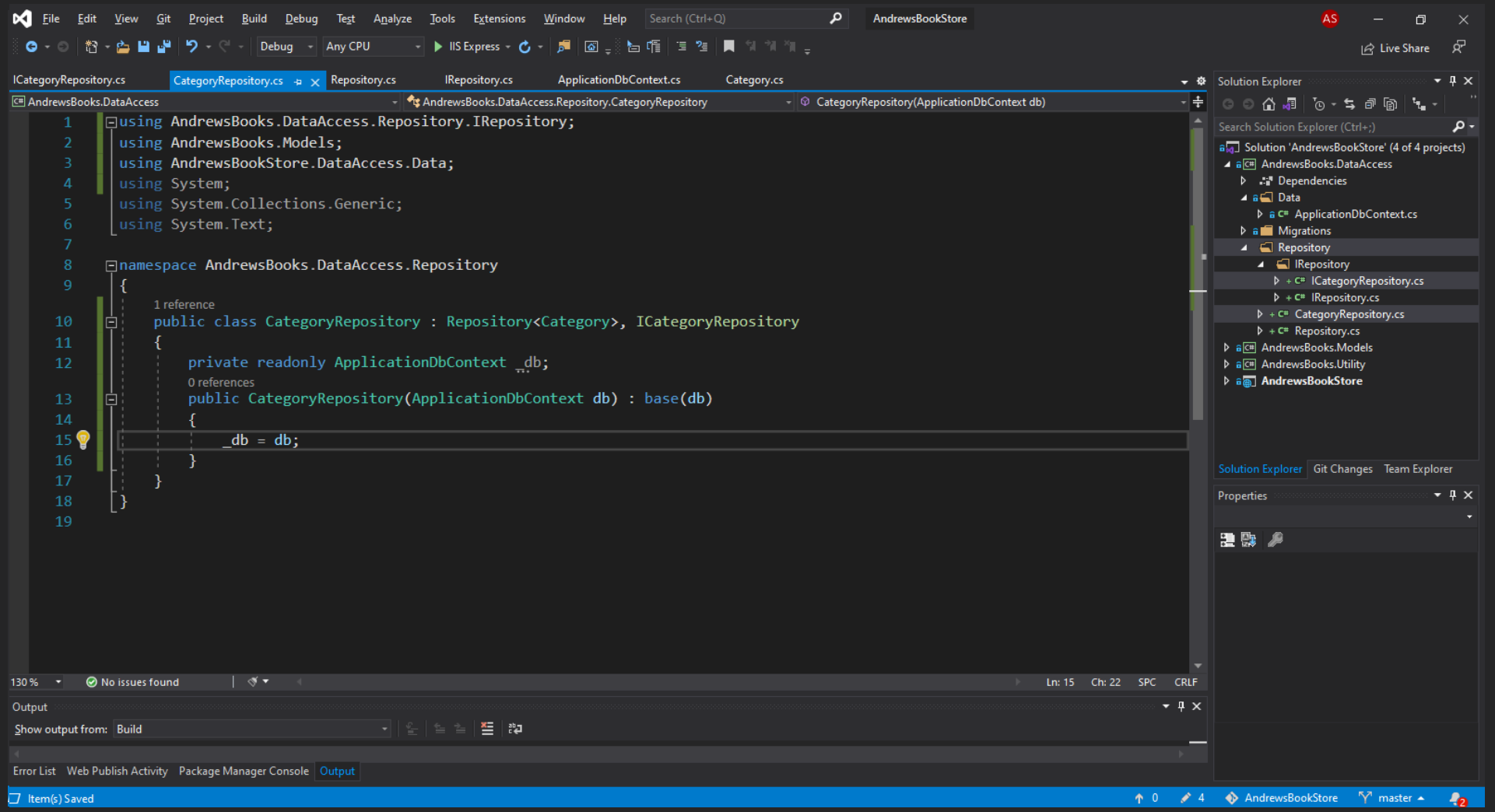

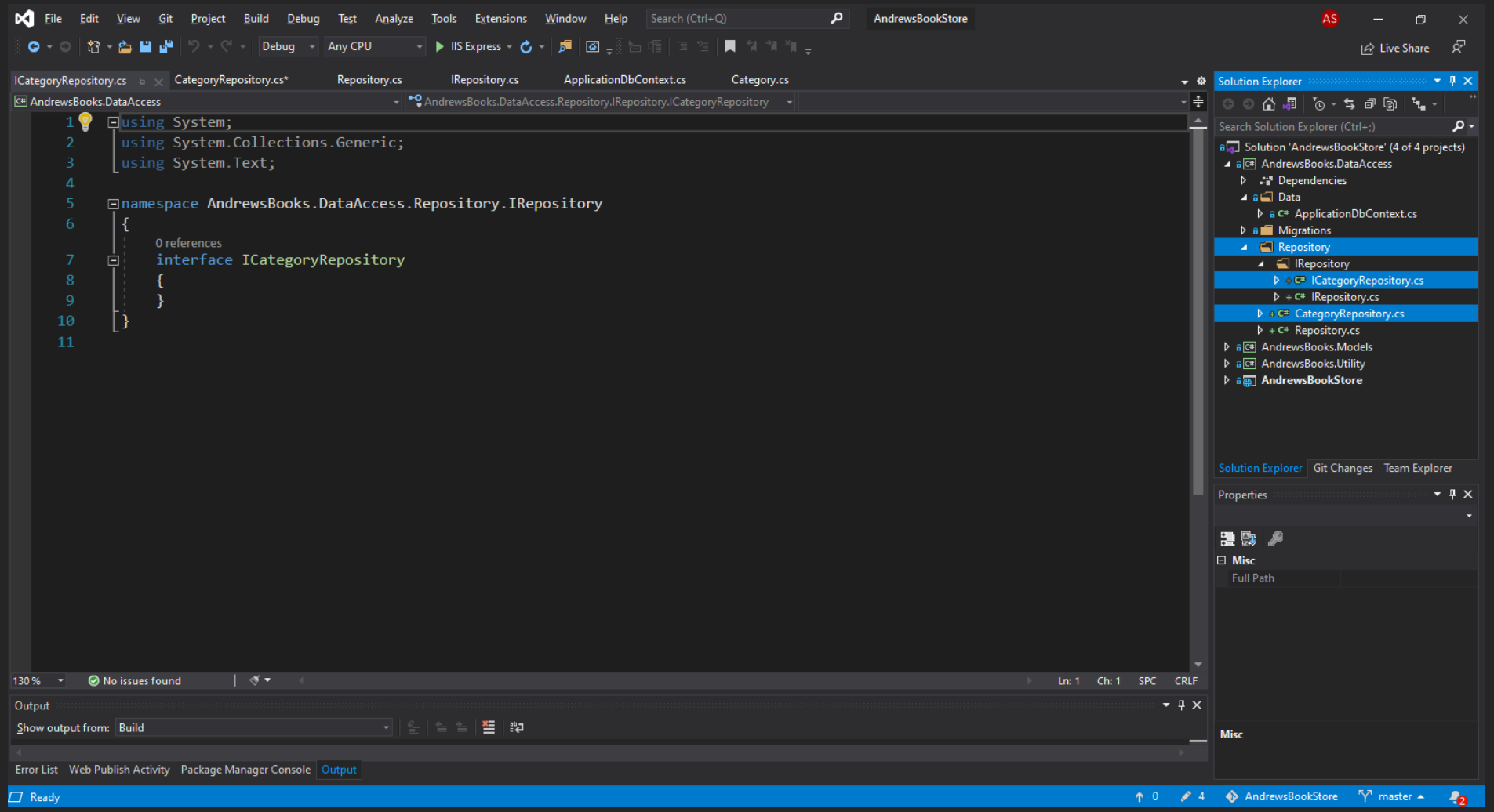
File Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help
Search (Ctrl+Q)
AndrewsBookStore
Debug
Any CPU
IIS Express
Live Share
ICategoryRepository.cs
CategoryRepository.cs*
Repository.cs
IRepository.cs
ApplicationDbContext.cs
Category.cs
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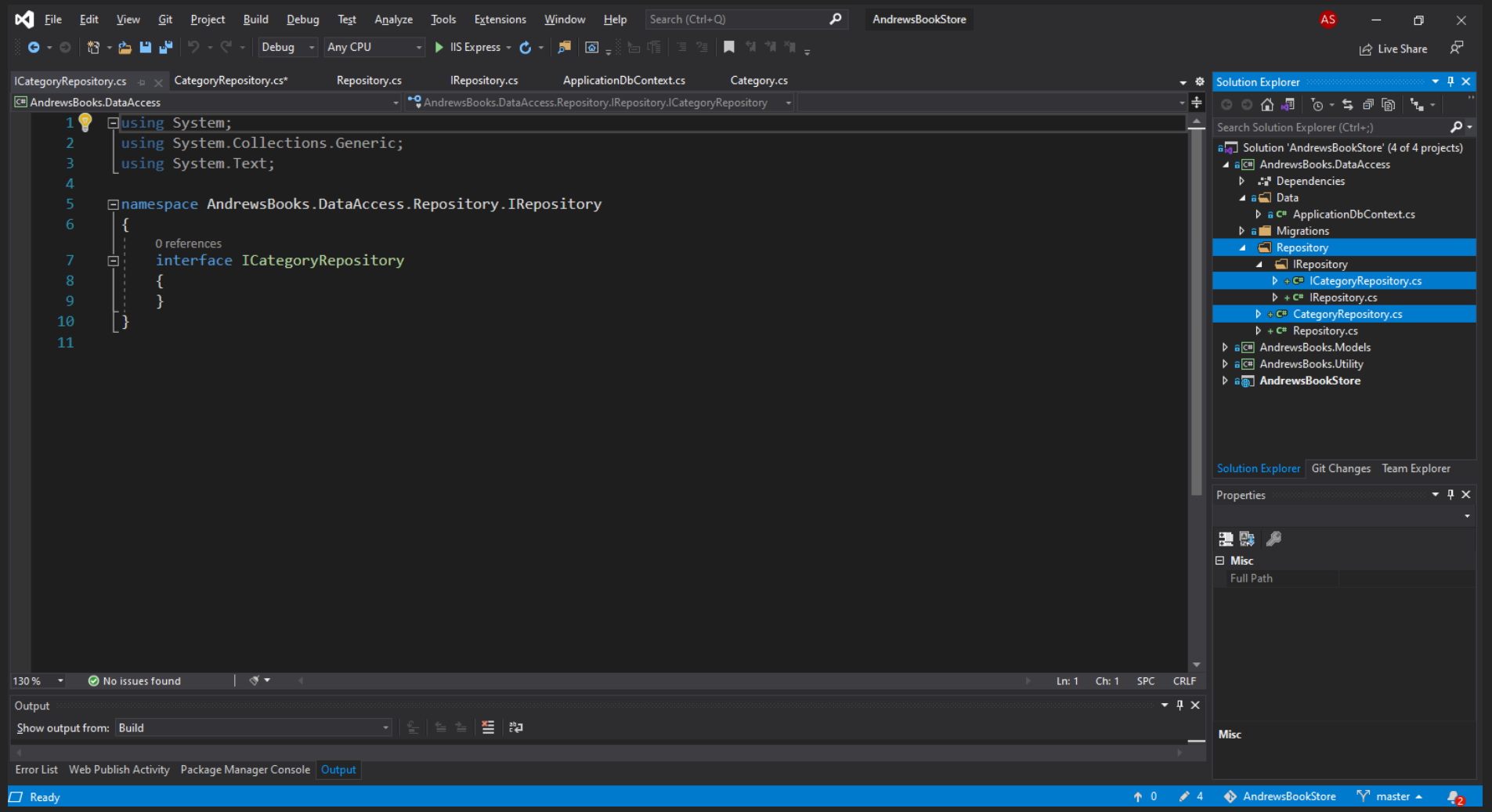
AndrewsBooks.DataAccess.Repository.IRepository.ICategoryRepository
using System;
using System.Collections.Generic;
using System.Text;
namespace AndrewsBooks.DataAccess.Repository.IRepository
{
0 references
interface ICategoryRepository
{
}
}
130 %
No issues found
Ln: 1
Ch: 1
SPC
CRLF
Output
Show output from: Build
Error List
Web Publish Activity
Package Manager Console
Output
Solution Explorer
Search Solution Explorer (Ctrl+;)
Solution 'AndrewsBookStore' (4 of 4 projects)
AndrewsBooks.DataAccess
Dependencies
Data
ApplicationDbContext.cs
Migrations
Repository
IRepository
ICategoryRepository.cs
IRepository.cs
CategoryRepository.cs
Repository.cs
AndrewsBooks.Models
AndrewsBooks.Utility
AndrewsBookStore
Solution Explorer
Git Changes
Team Explorer
Properties
Misc
Full Path
Misc
Ready
0
4
AndrewsBookStore
master

- Modify ICategoryRepository interface



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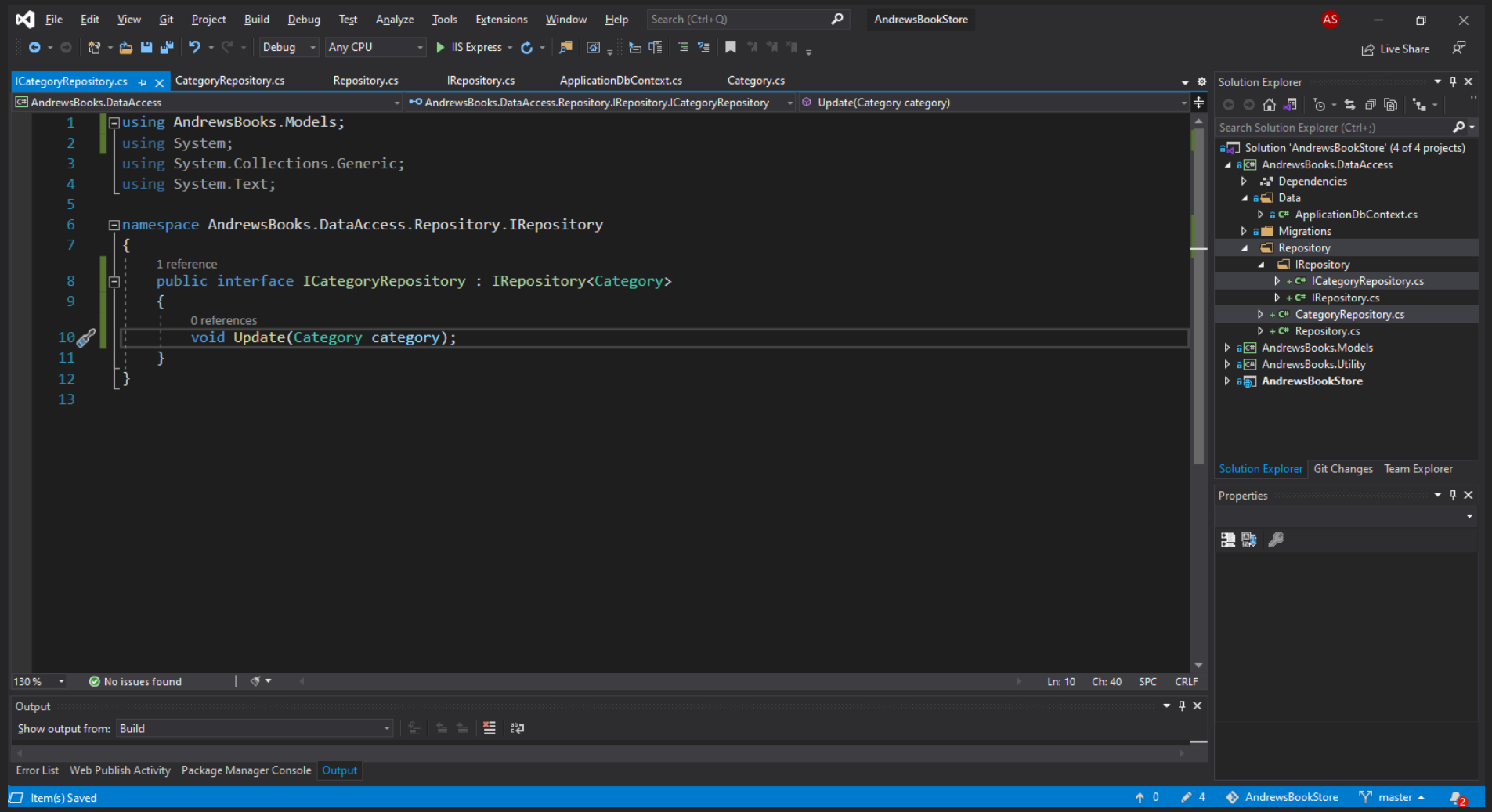
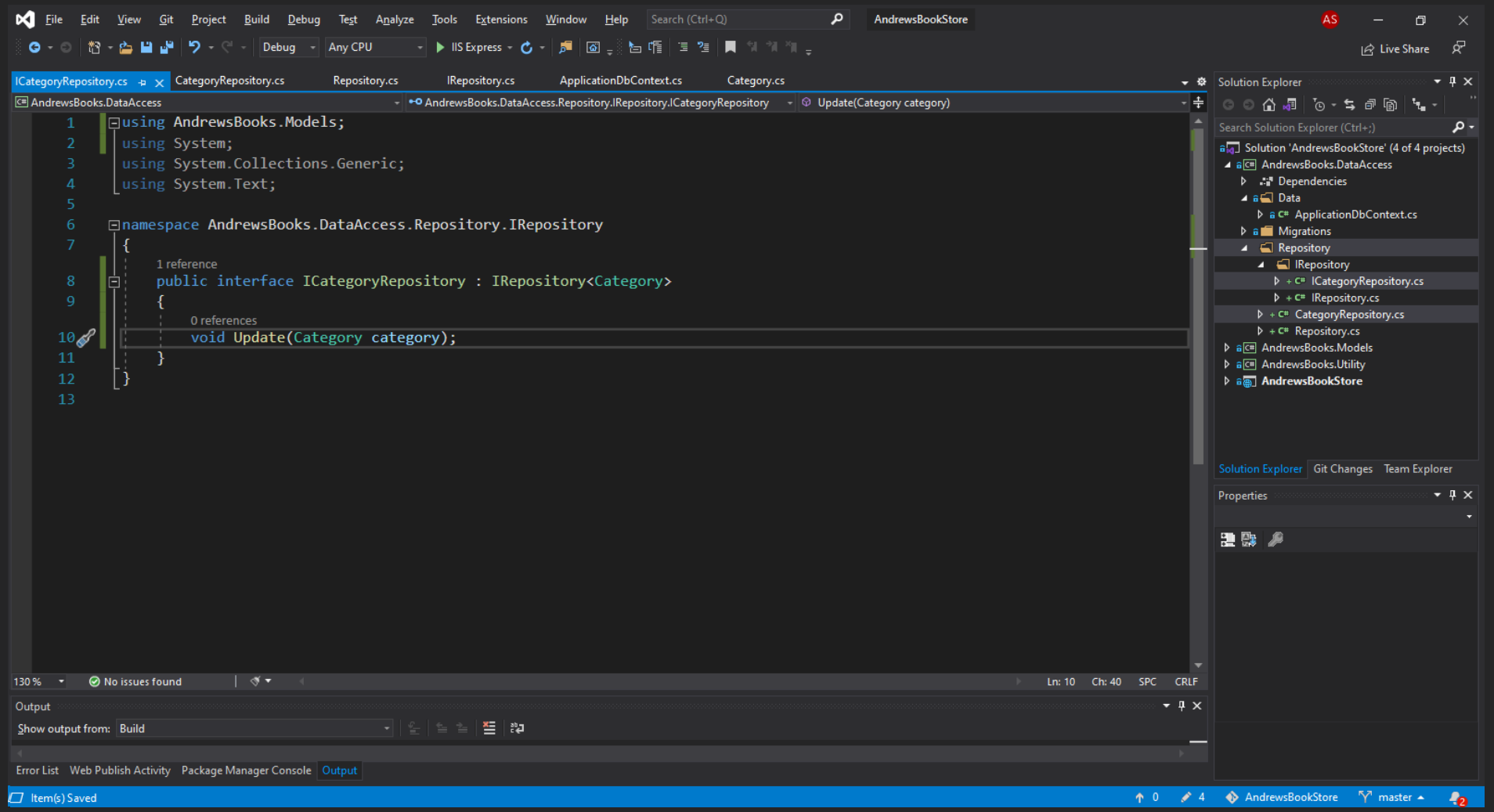


- Modify ICategoryRepository interface
- Review and modify the error now in CategoryRepository.cs (implement the interface to update)



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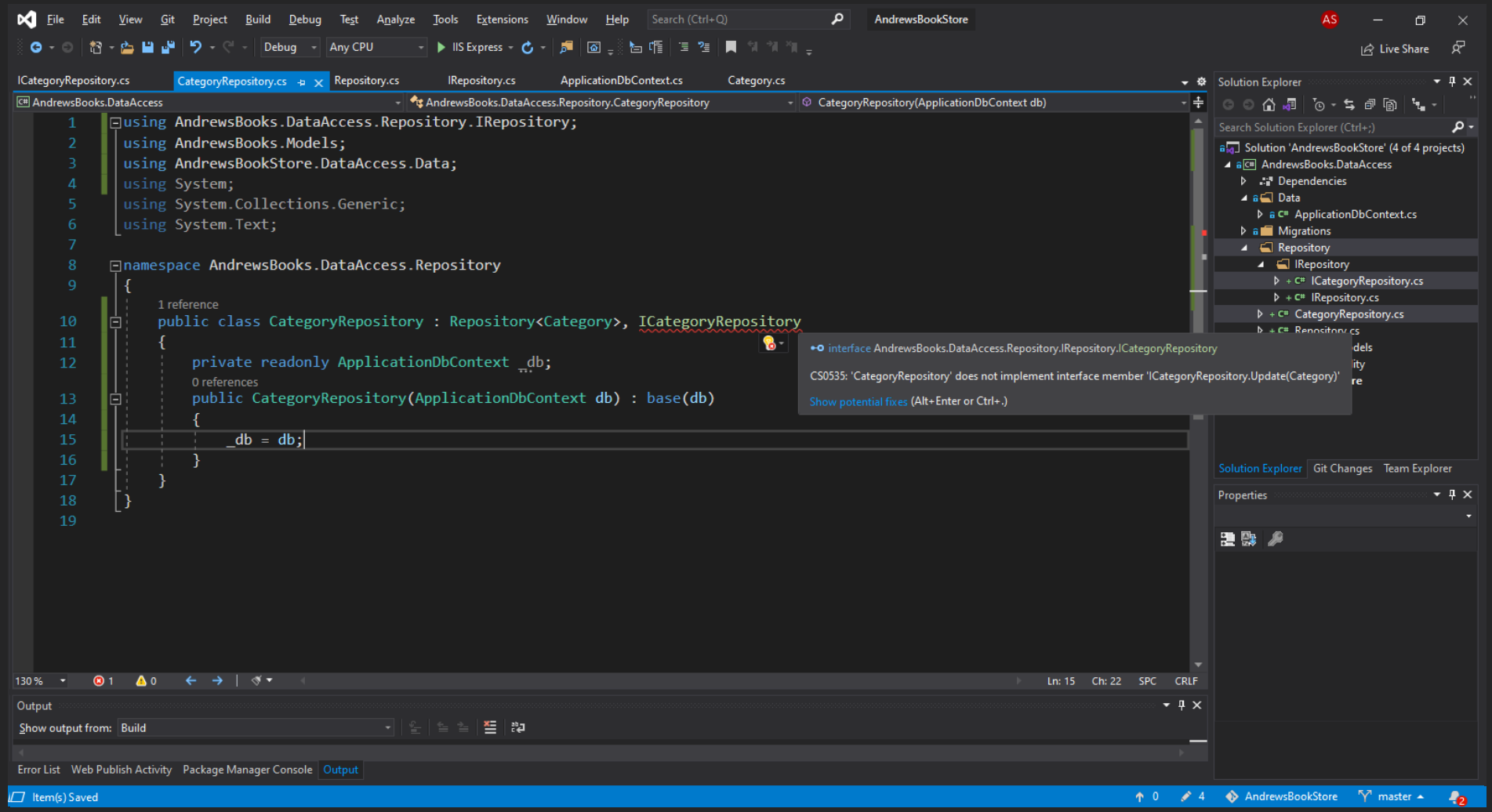

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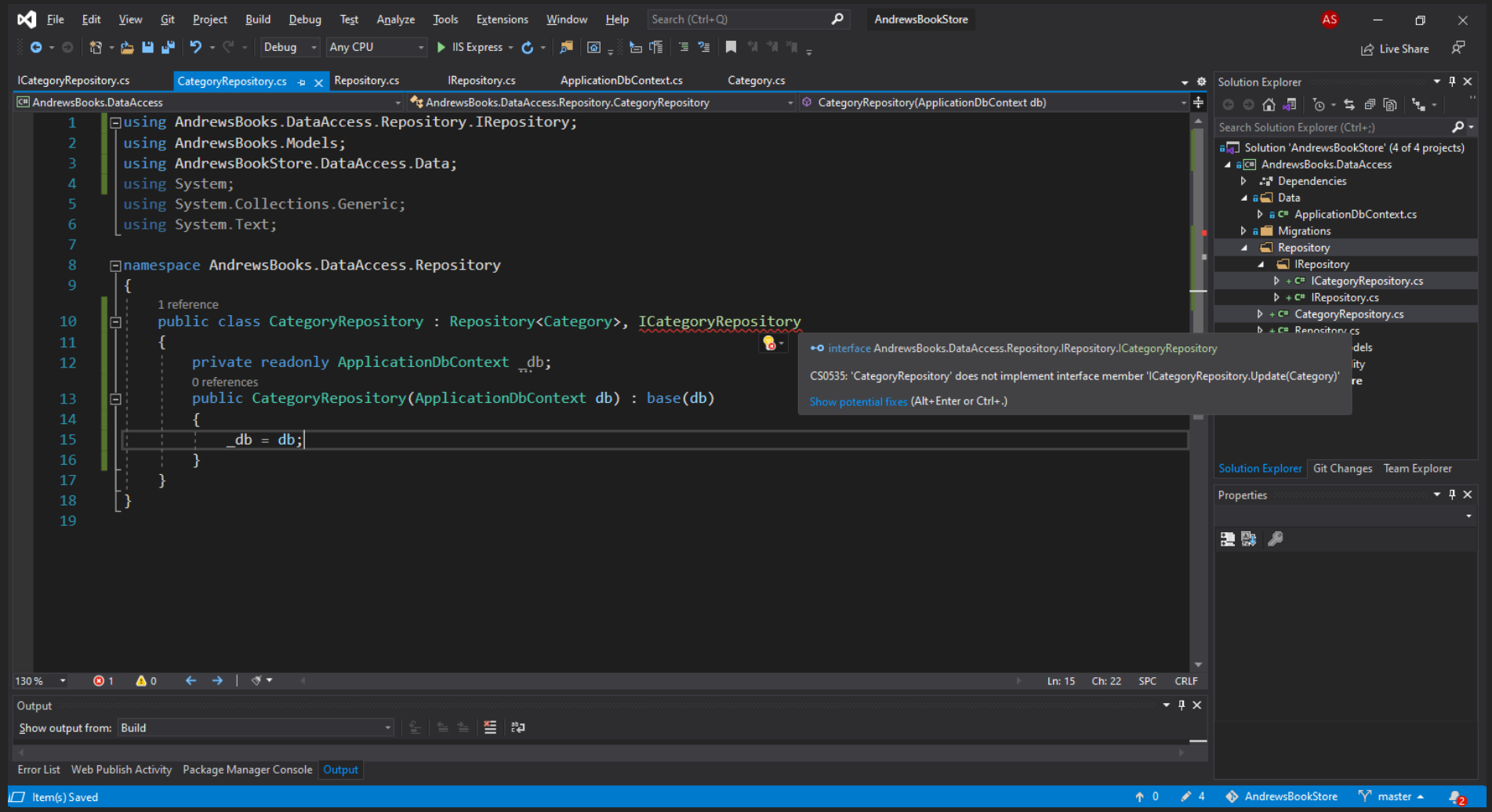

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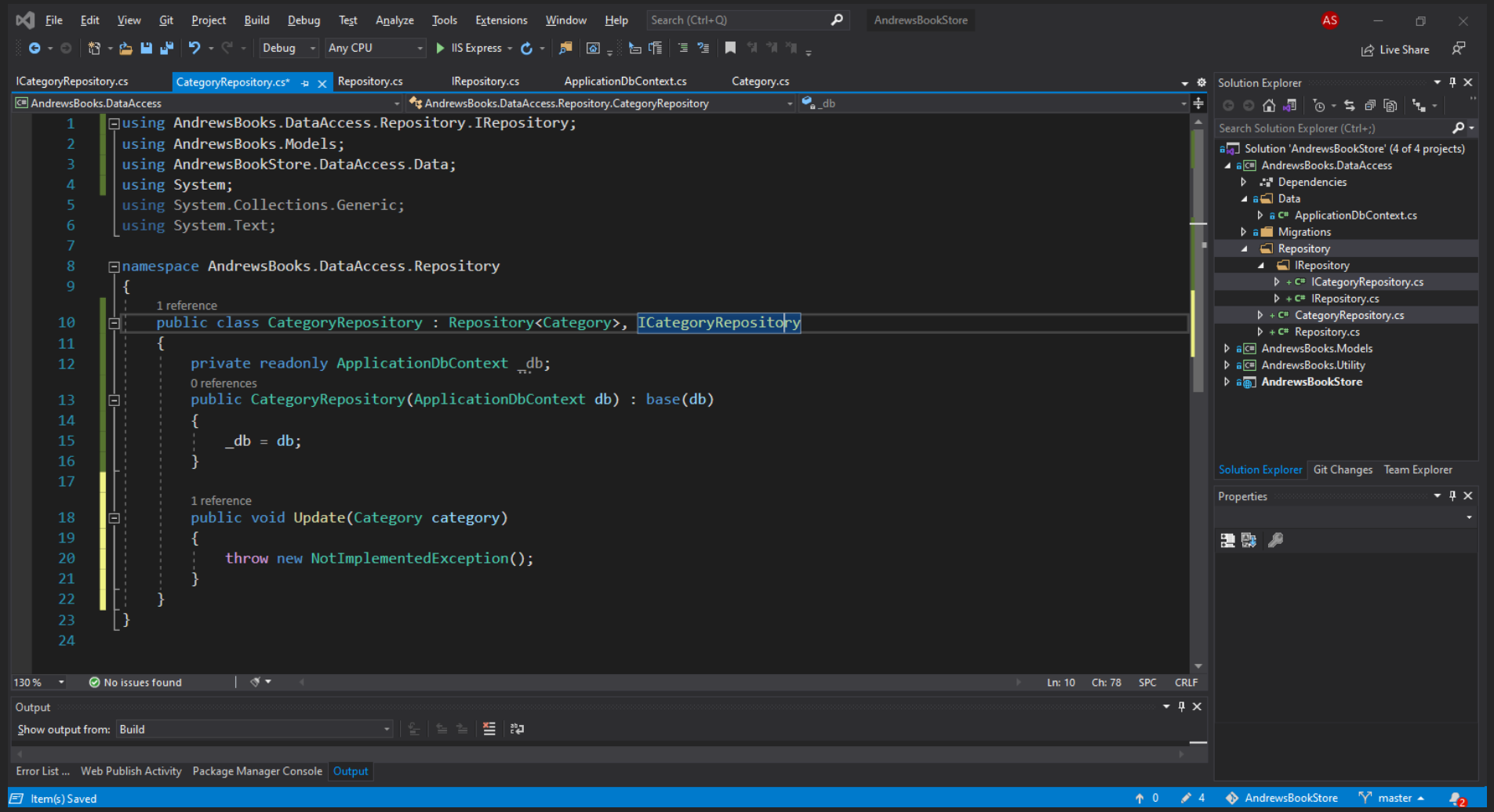

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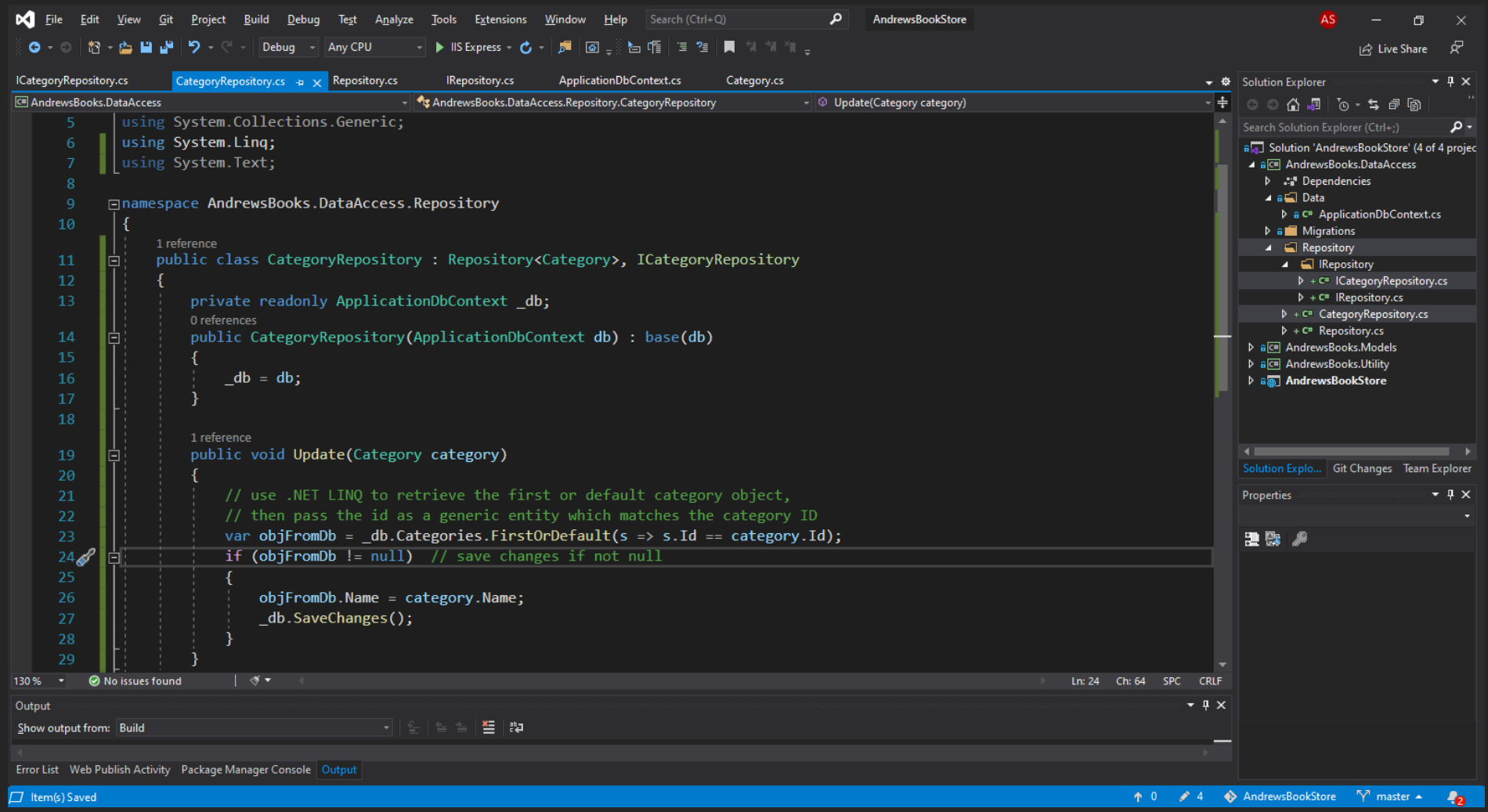

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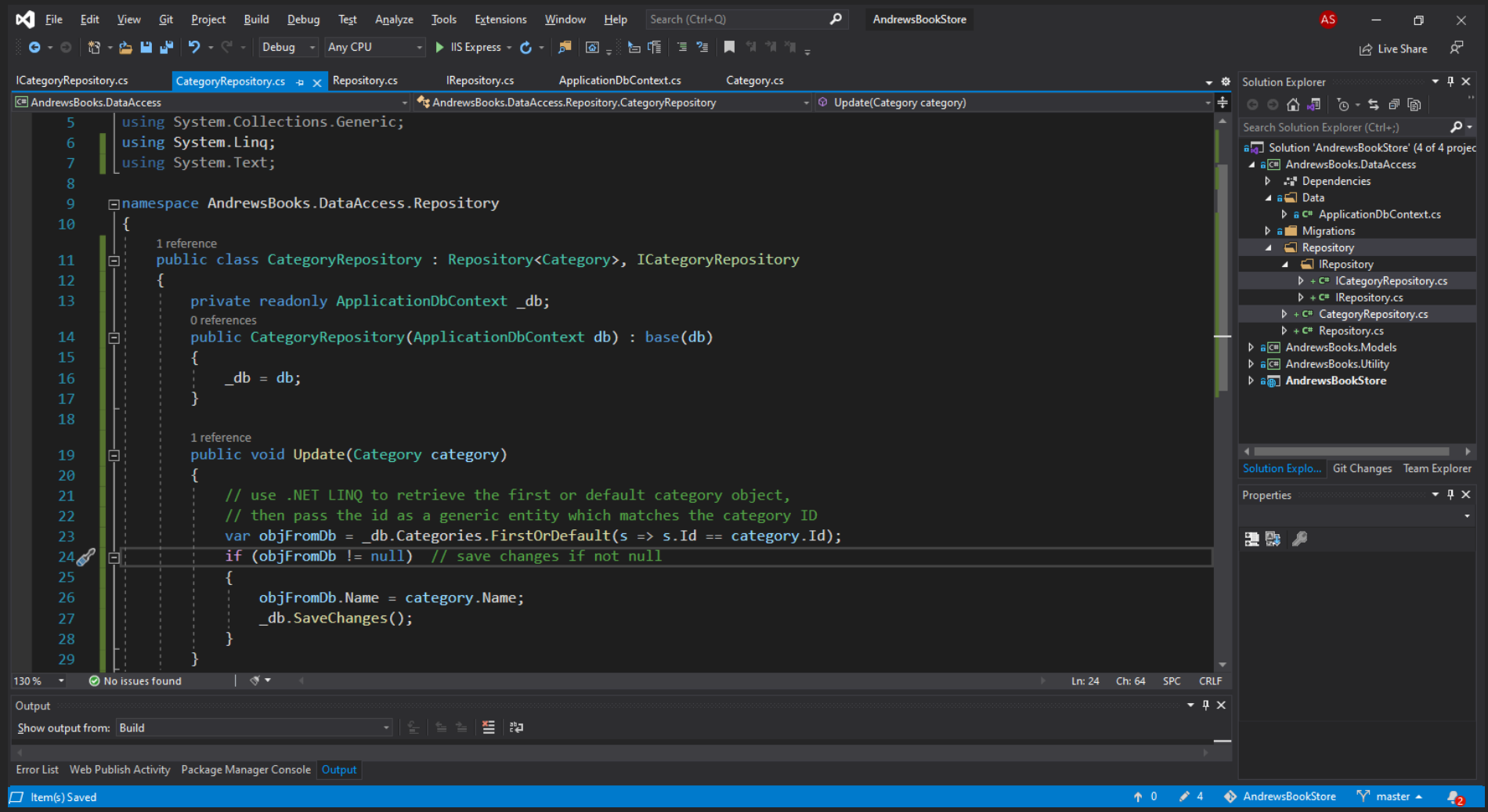
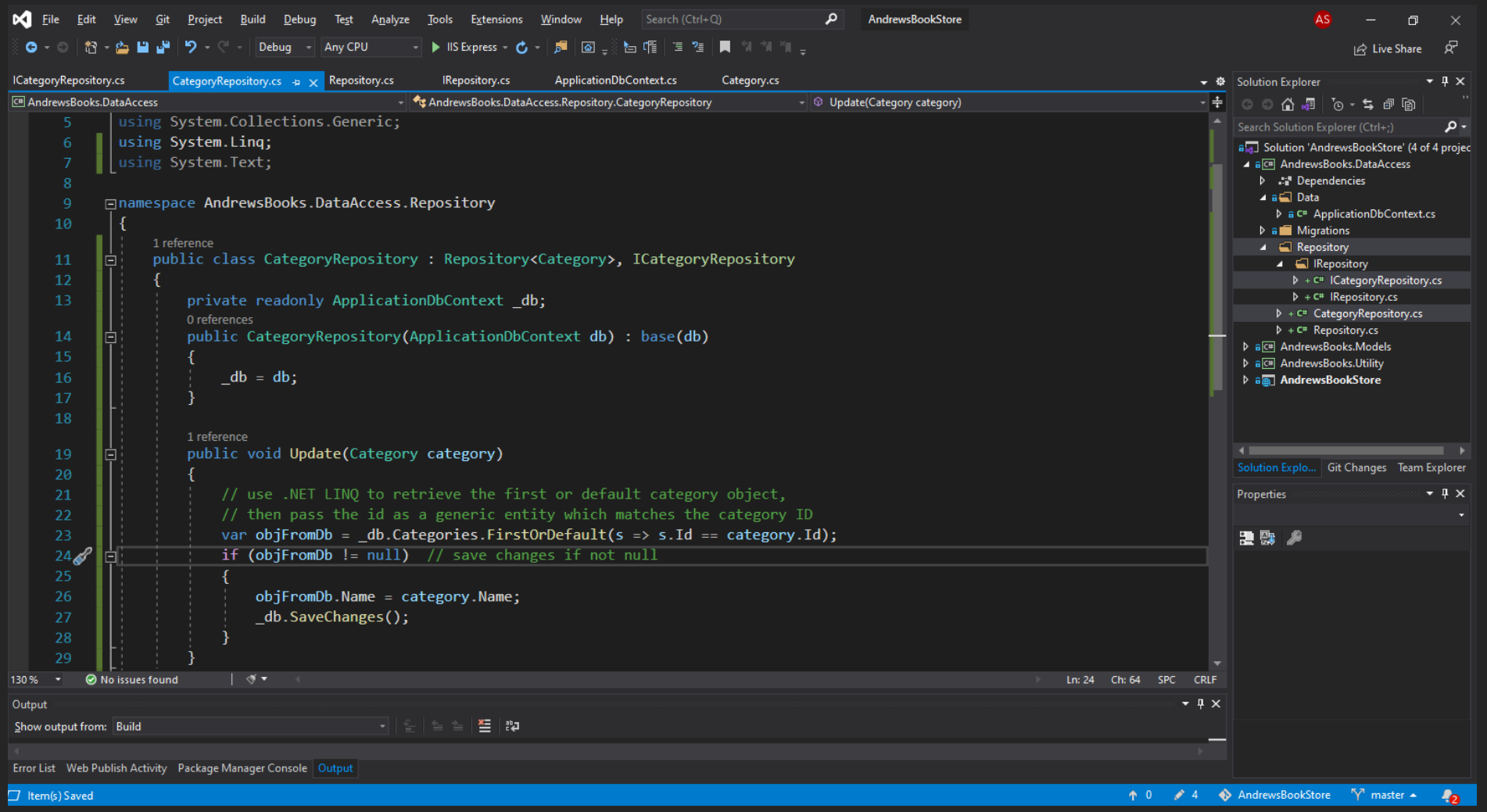
- Build, fix any error and push commits to GitHub




File Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help
Search (Ctrl+Q)
AndrewsBookStore
Debug
Any CPU
IIS Express
Live Share
ICategoryRepository.cs
CategoryRepository.cs
Repository.cs
IRepository.cs
ApplicationDbContext.cs
Category.cs
AndrewsBooks.DataAccess
AndrewsBooks.DataAccess.Repository.CategoryRepository
Update(Category category)
using System.Collections.Generic;
using System.Linq;
using System.Text;
namespace AndrewsBooks.DataAccess.Repository
{
1 reference
public class CategoryRepository : Repository<Category>, ICategoryRepository
{
private readonly ApplicationDbContext _db;
0 references
public CategoryRepository(ApplicationDbContext db) : base(db)
{
_db = db;
}
1 reference
public void Update(Category category)
{
// use .NET LINQ to retrieve the first or default category object,
// then pass the id as a generic entity which matches the category ID
var objFromDb = _db.Categories.FirstOrDefault(s => s.Id == category.Id);
if (objFromDb != null) // save changes if not null
{
objFromDb.Name = category.Name;
_db.SaveChanges();
}
}
130 %
No issues found
Ln: 24
Ch: 64
SPC
CRLF
Solution Explorer
Search Solution Explorer (Ctrl+;)
Solution 'AndrewsBookStore' (4 of 4 projec
AndrewsBooks.DataAccess
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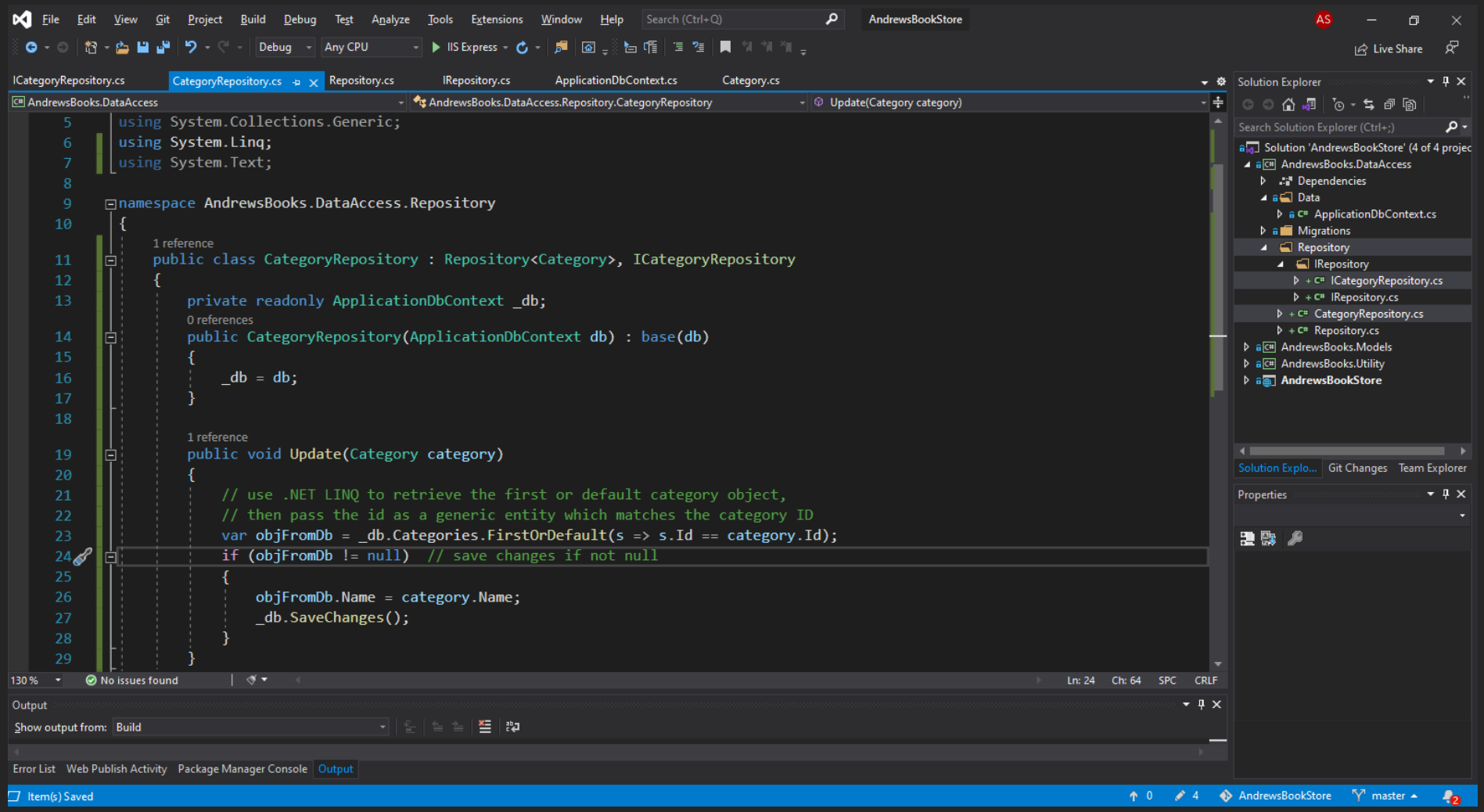
AndrewsBookStore
master

- Implement a stored procedure repository and map multiple repositories in a Unit of Work



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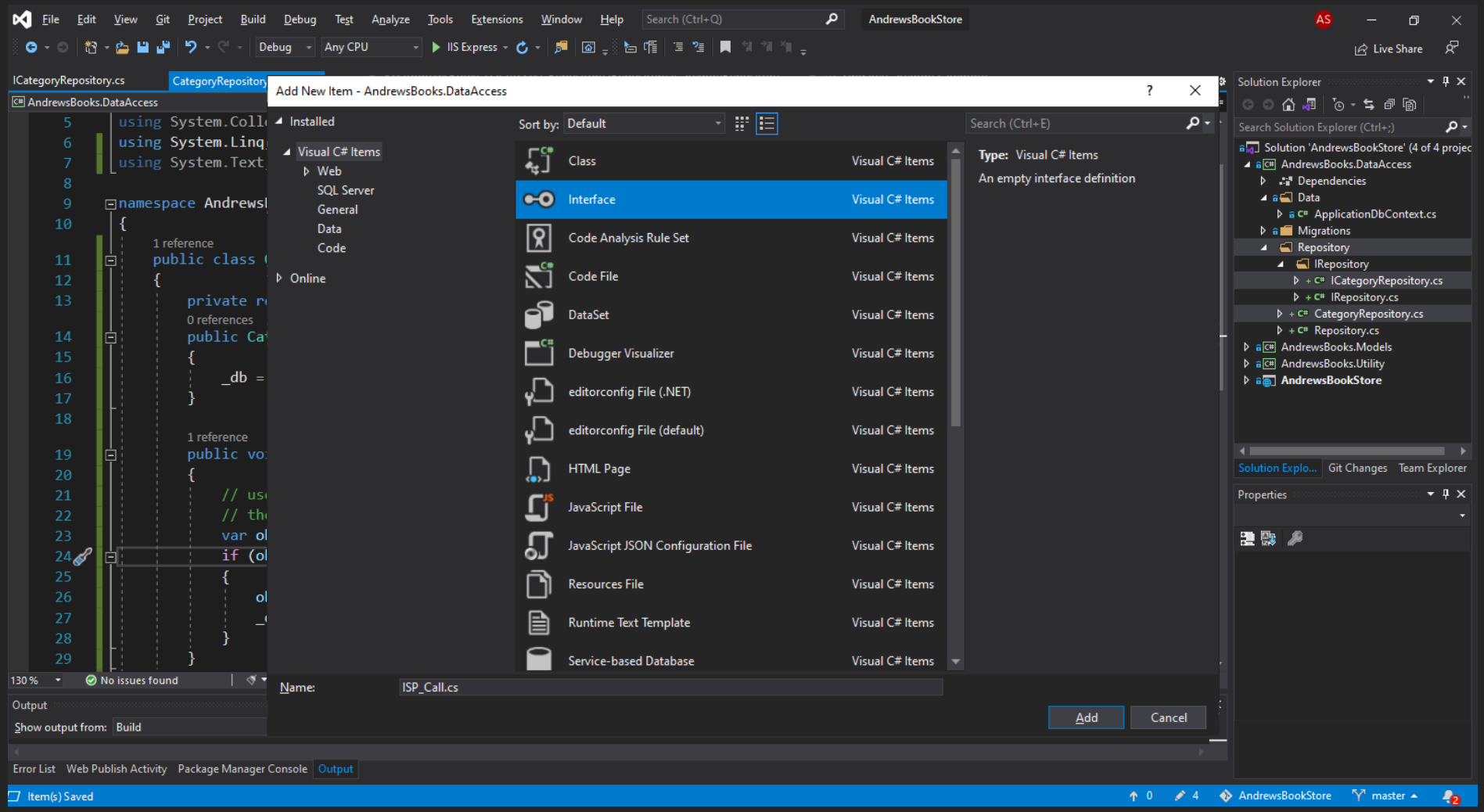
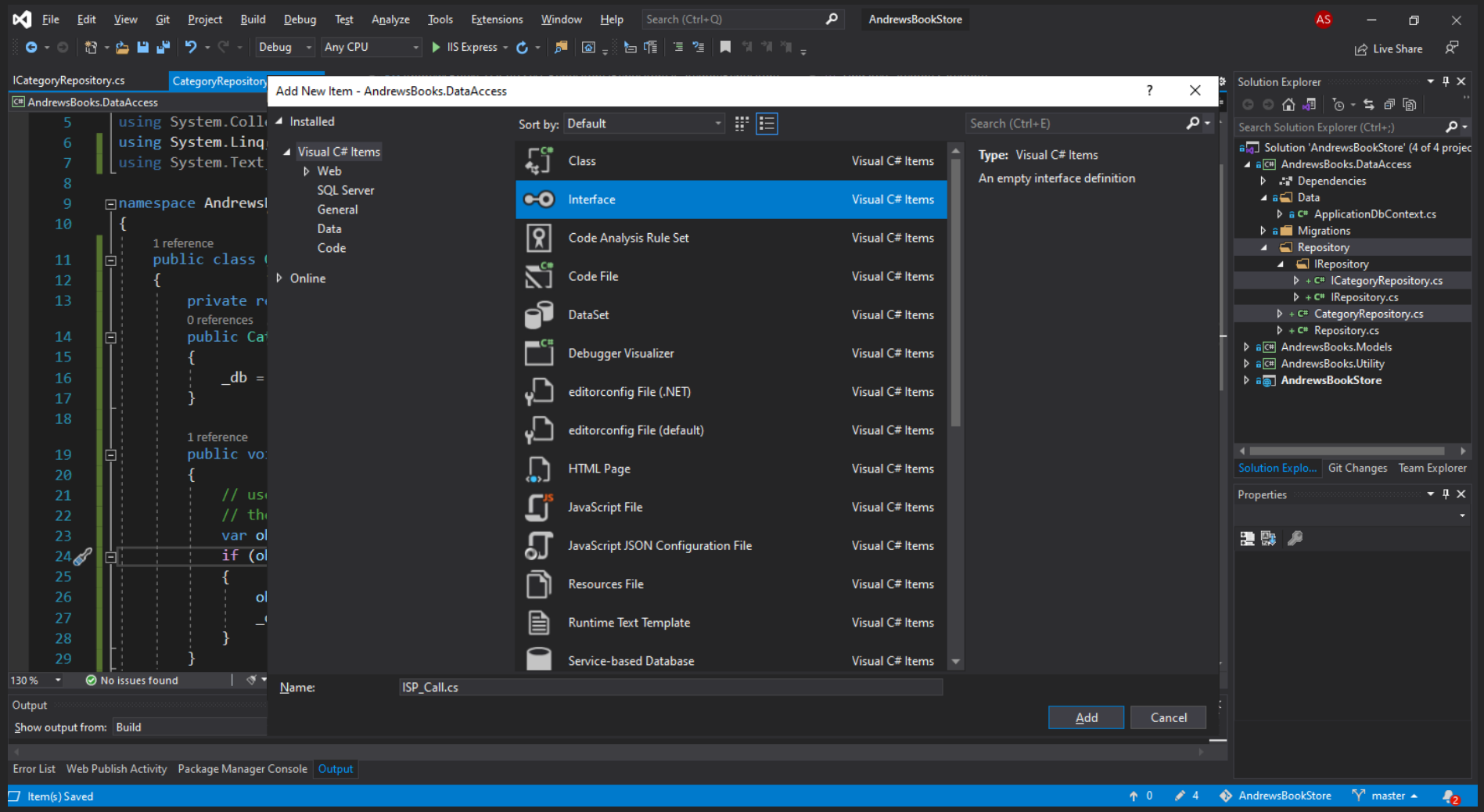


- Implement a stored procedure repository and map multiple repositories in a Unit of Work

- Add a new interface in the IRepository folder - ISP_Call.cs – that extends IDisposable



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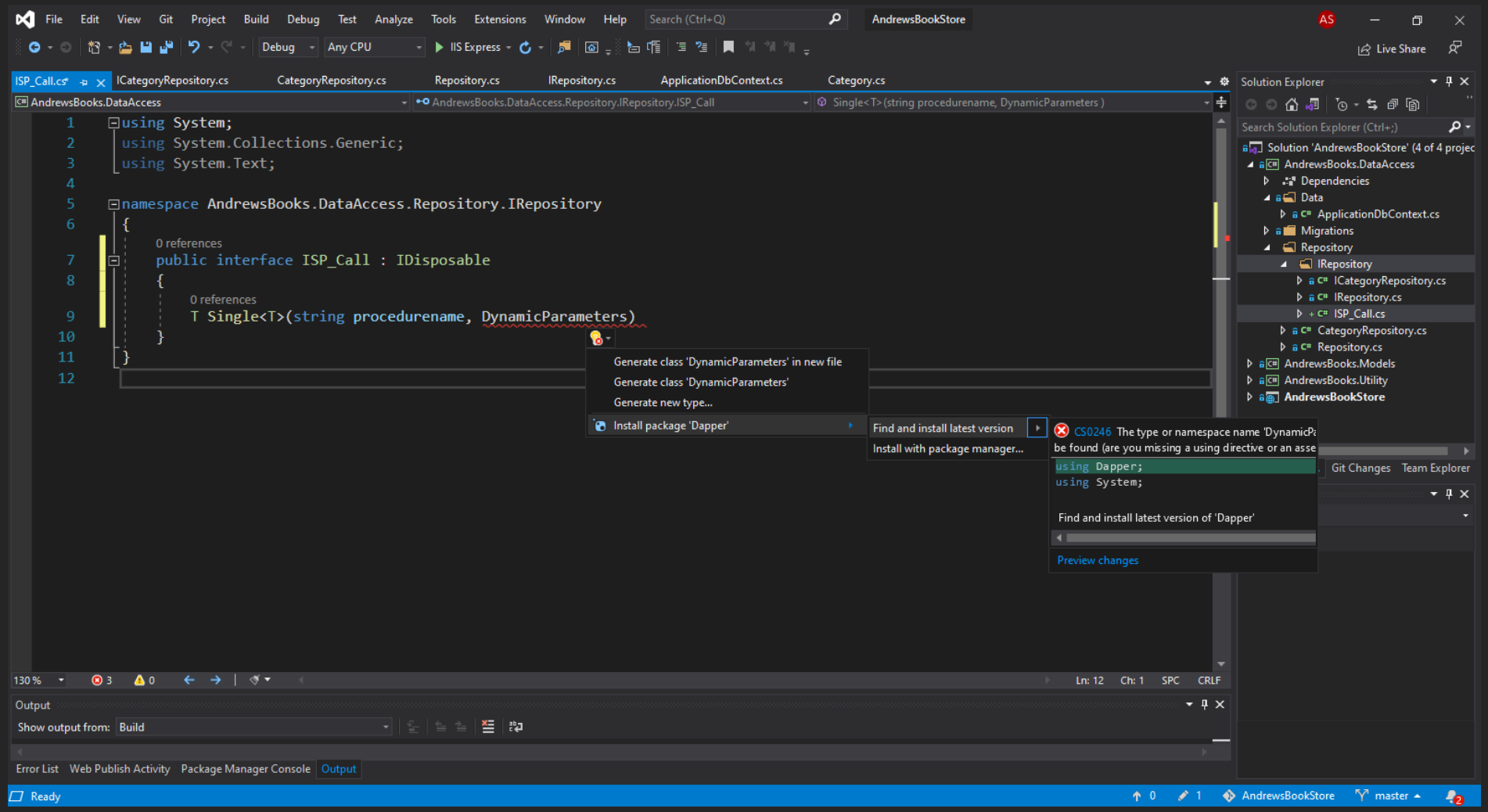
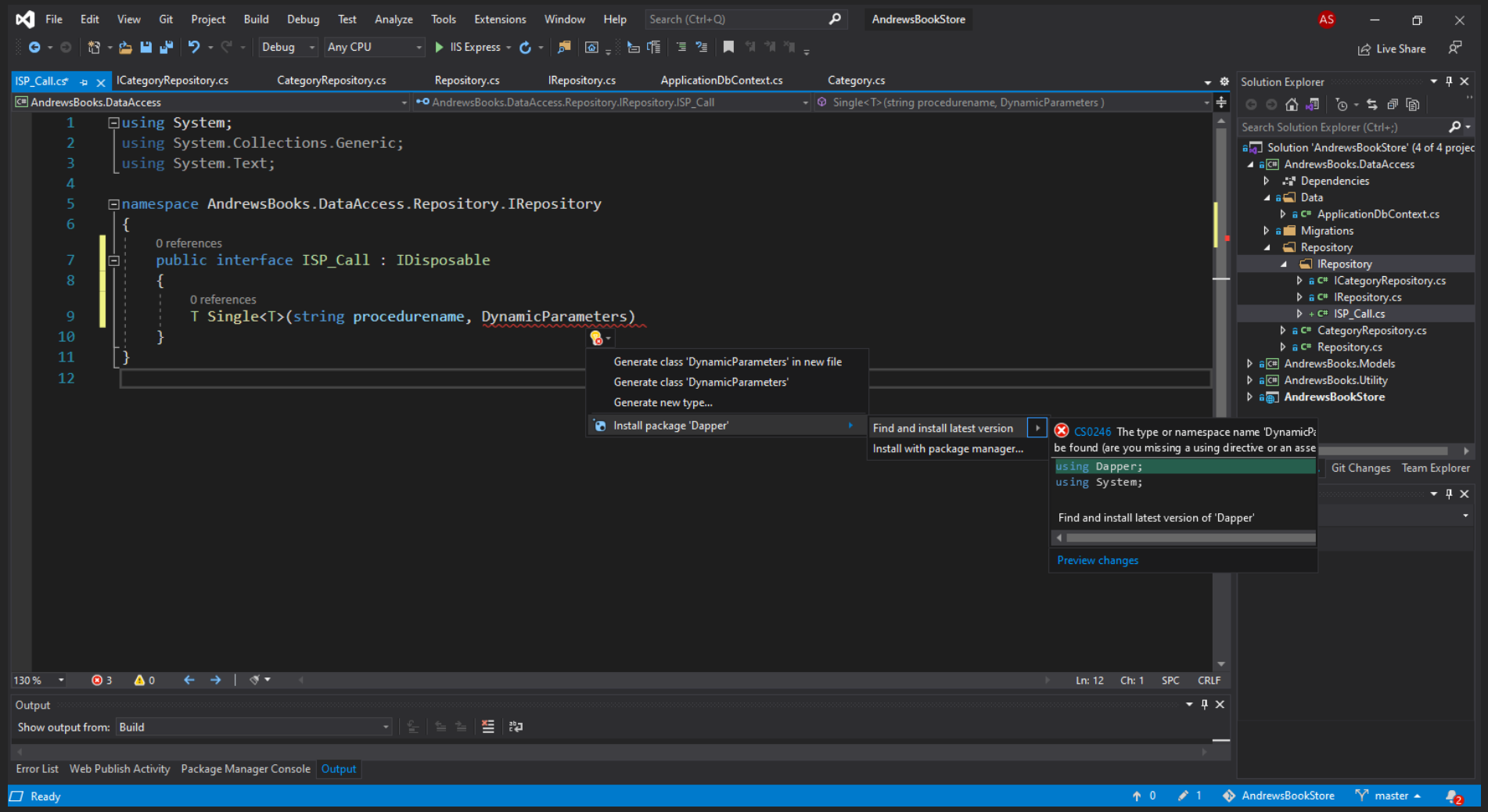


- Implement a stored procedure repository and map multiple repositories in a Unit of Work

- Add a new interface in the IRepository folder - ISP_Call.cs – that extends IDisposable
- Include the methods shown (note the comments) and install the NuGet package for Dapper



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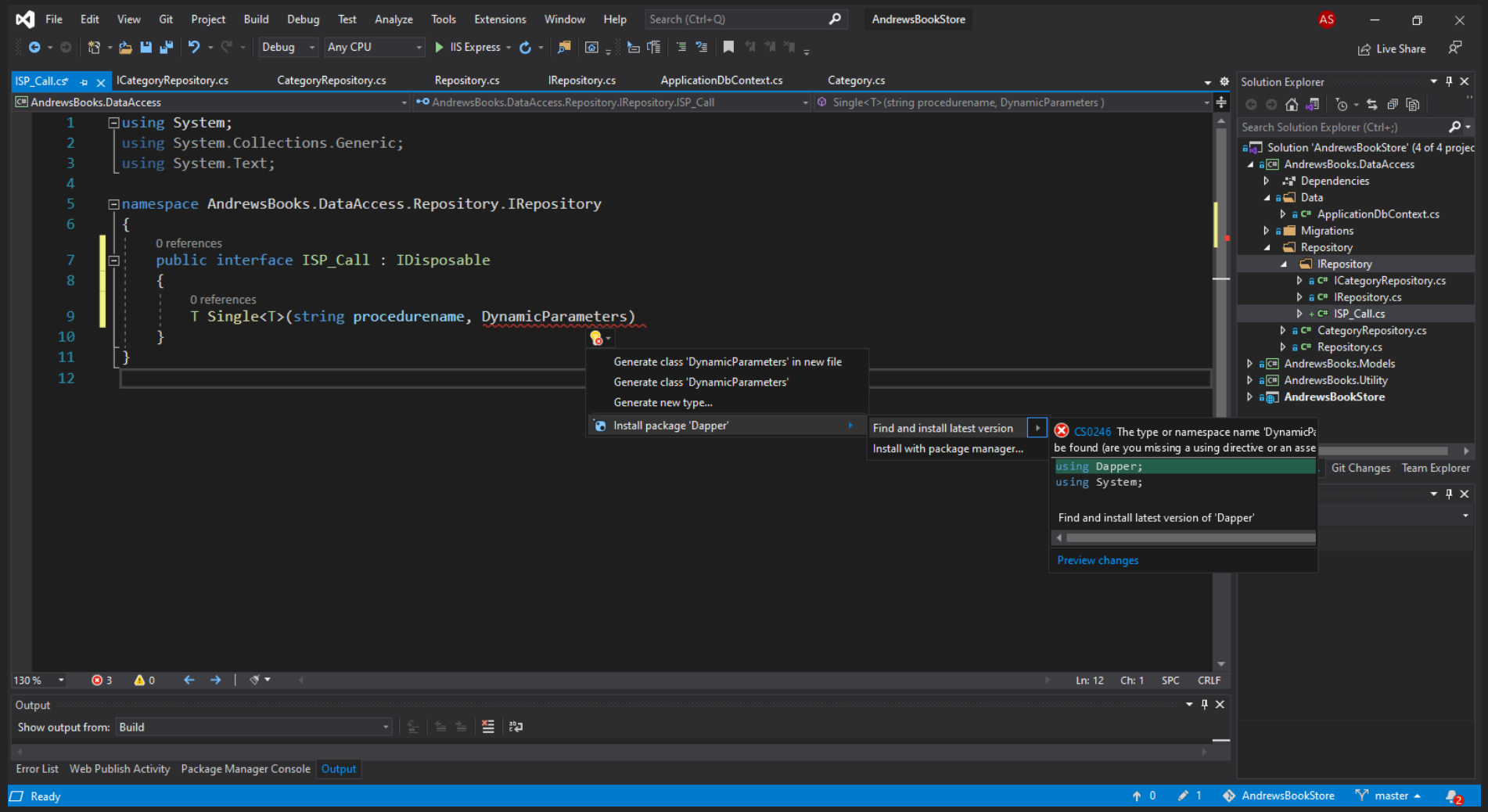

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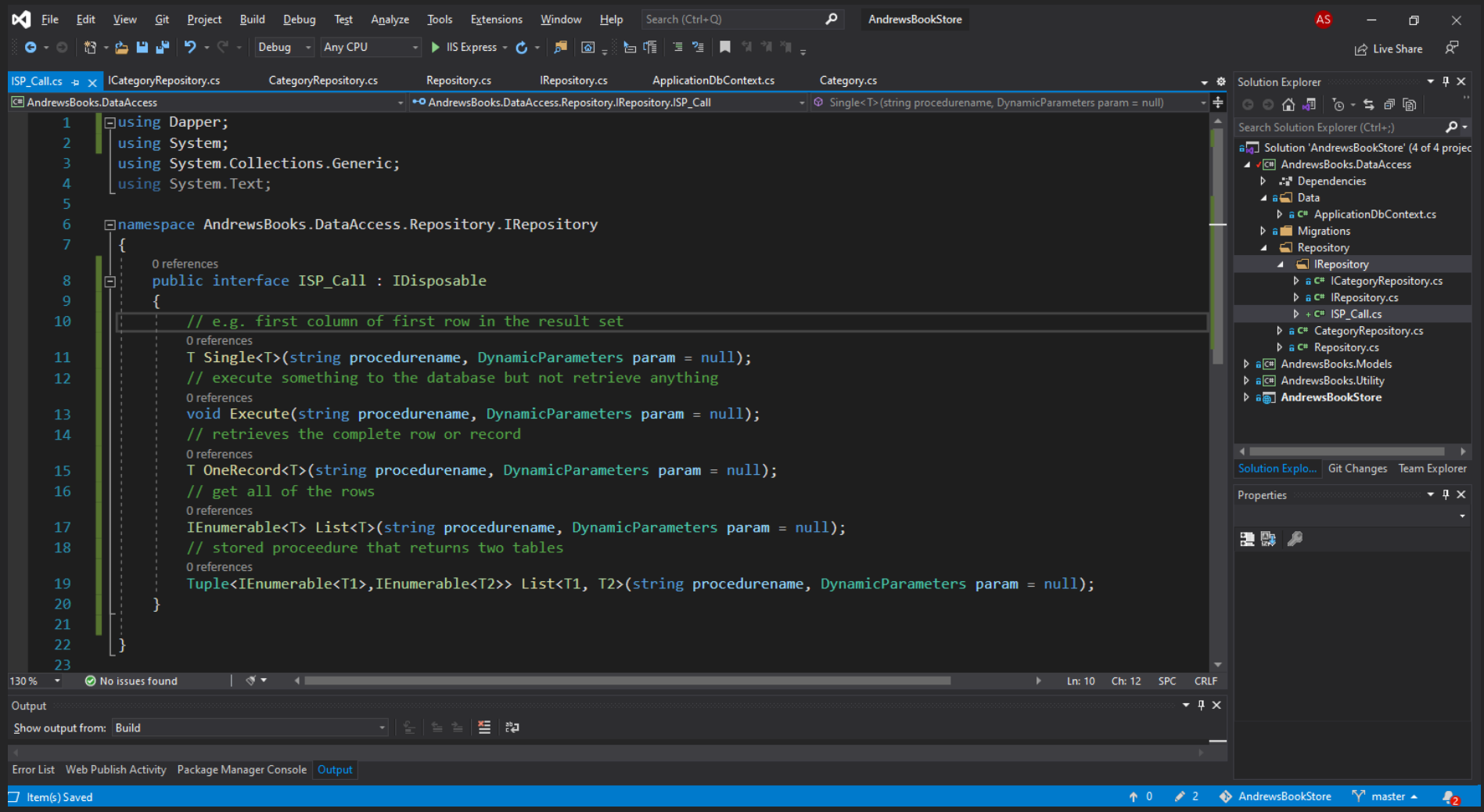

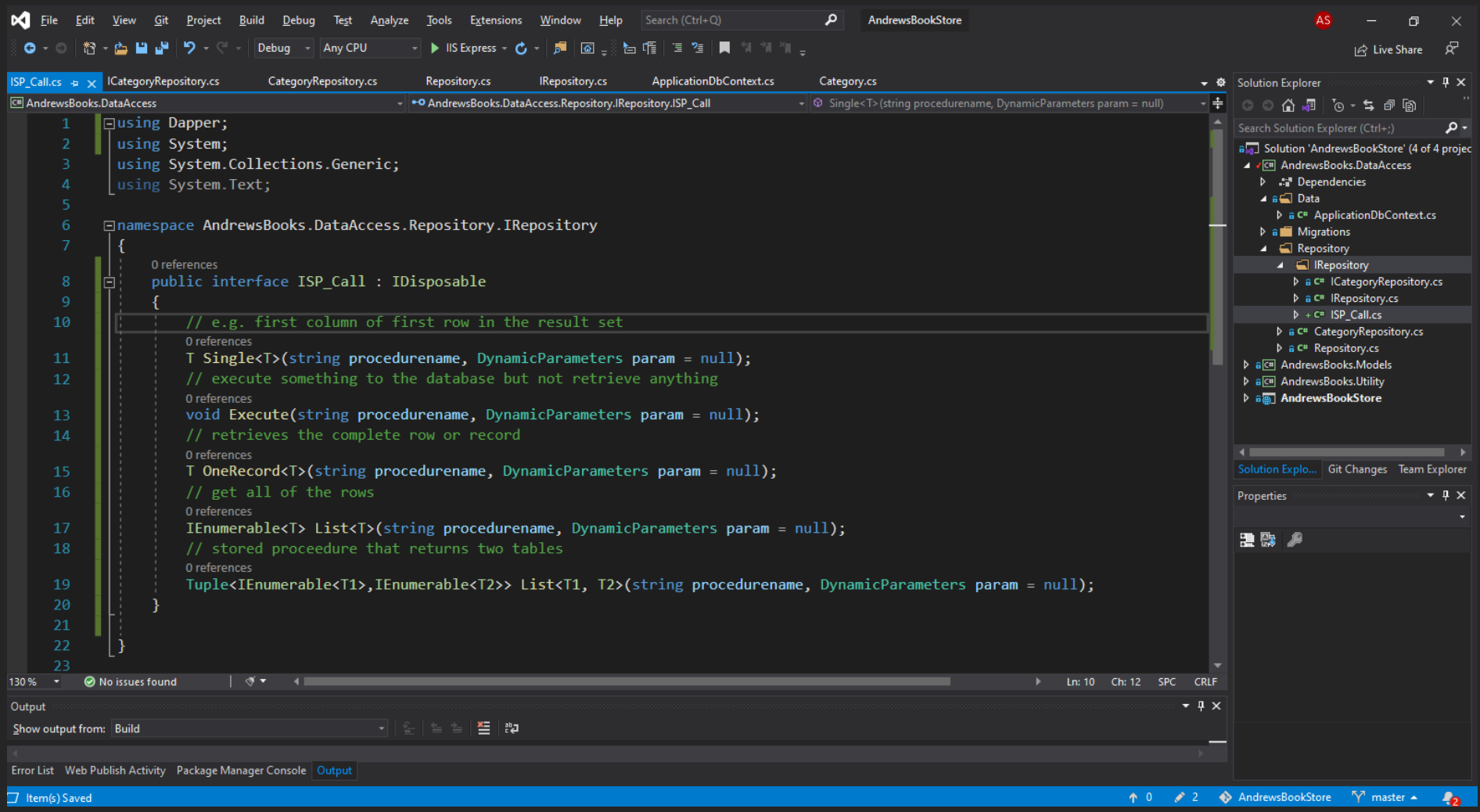
File Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help
Search (Ctrl+Q)
AndrewsBookStore
Debug
Any CPU
IIS Express
Live Share
ISP_Call.cs
ICategoryRepository.cs
CategoryRepository.cs
Repository.cs
IRepository.cs
ApplicationDbContext.cs
Category.cs
AndrewsBooks.DataAccess
AndrewsBooks.DataAccess.Repository.IRepository.ISP_Call
Single<T>(string procedurename, DynamicParameters param = null)
using Dapper;
using System;
using System.Collections.Generic;
using System.Text;
namespace AndrewsBooks.DataAccess.Repository.IRepository
{
0 references
public interface ISP_Call : IDisposable
{
// e.g. first column of first row in the result set
0 references
T Single<T>(string procedurename, DynamicParameters param = null);
// execute something to the database but not retrieve anything
0 references
void Execute(string procedurename, DynamicParameters param = null);
// retrieves the complete row or record
0 references
T OneRecord<T>(string procedurename, DynamicParameters param = null);
// get all of the rows
0 references
IEnumerable<T> List<T>(string procedurename, DynamicParameters param = null);
// stored proceedure that returns two tables
0 references
Tuple<IEnumerable<T1>,IEnumerable<T2>> List<T1, T2>(string procedurename, DynamicParameters param = null);
}
}
130 %
No issues found
Ln: 10
Ch: 12
SPC
CRLF
Output
Show output from: Build
Error List
Web Publish Activity
Package Manager Console
Output
Item(s) Saved
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AndrewsBooks.DataAccess
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AndrewsBooks.Utility
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Solution Explo...
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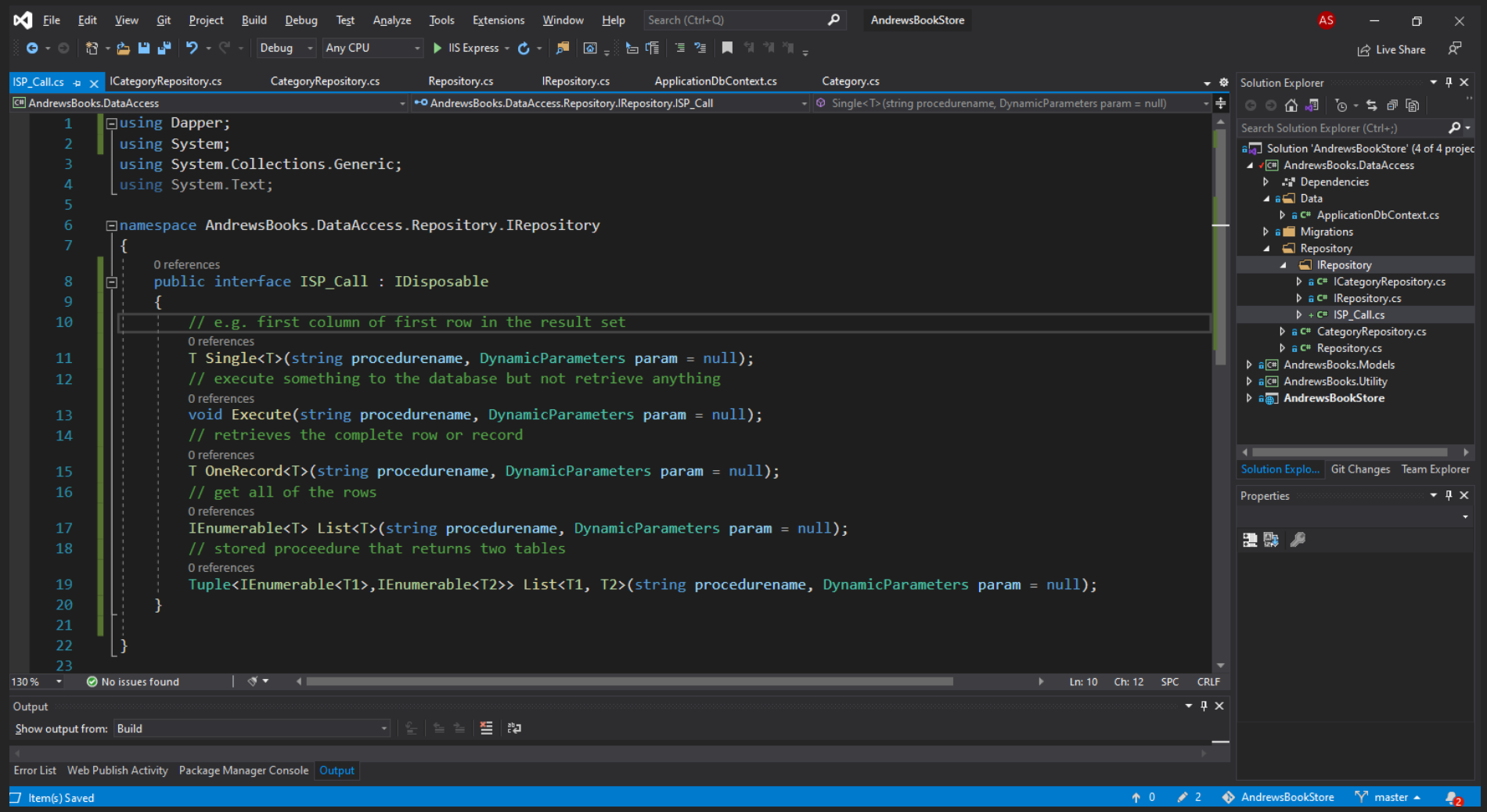
Team Explorer
Properties

- Add a new class (SP_Call.cs) in the Repository folder, select the appropriate using statement and implement the ISP_Call interface



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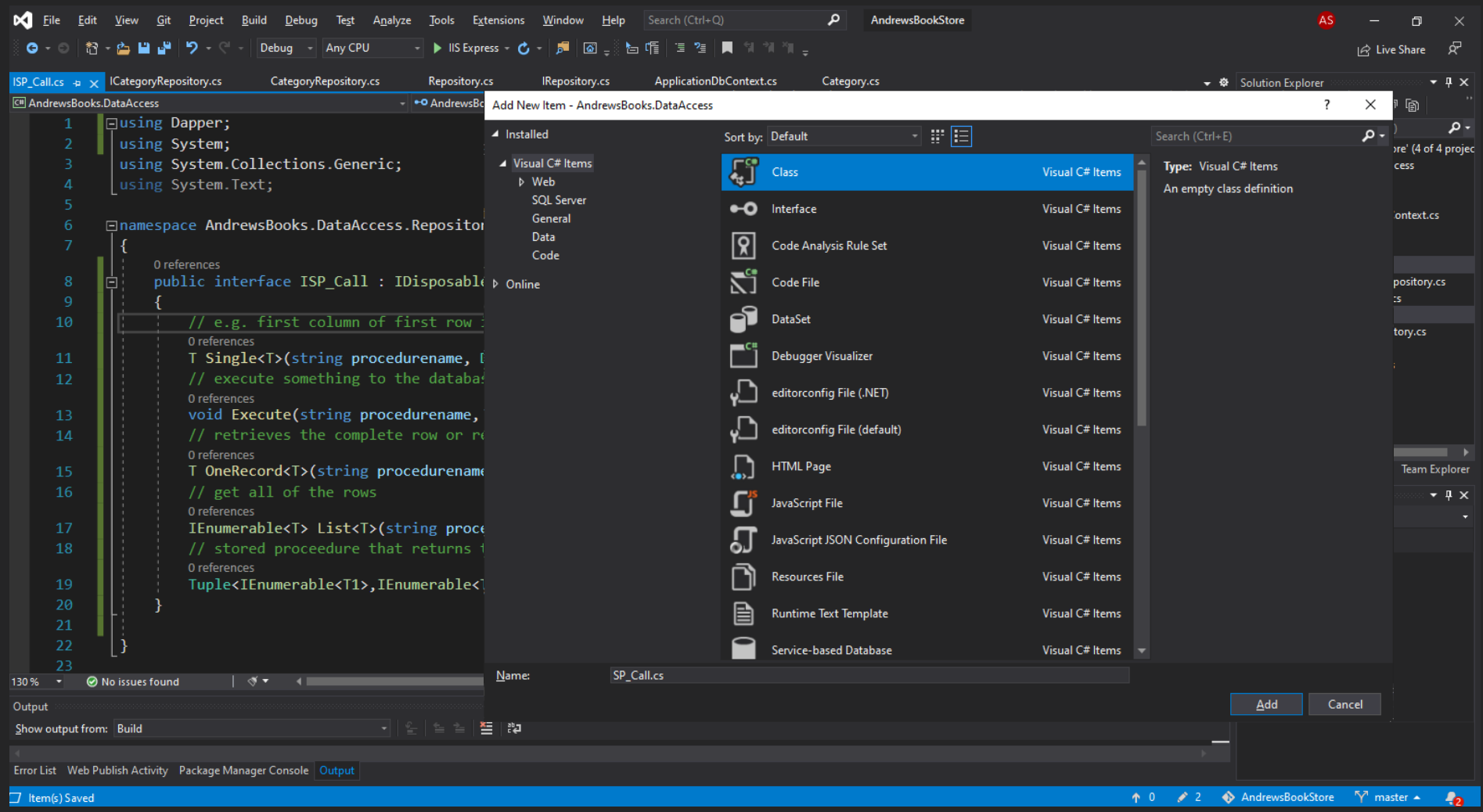

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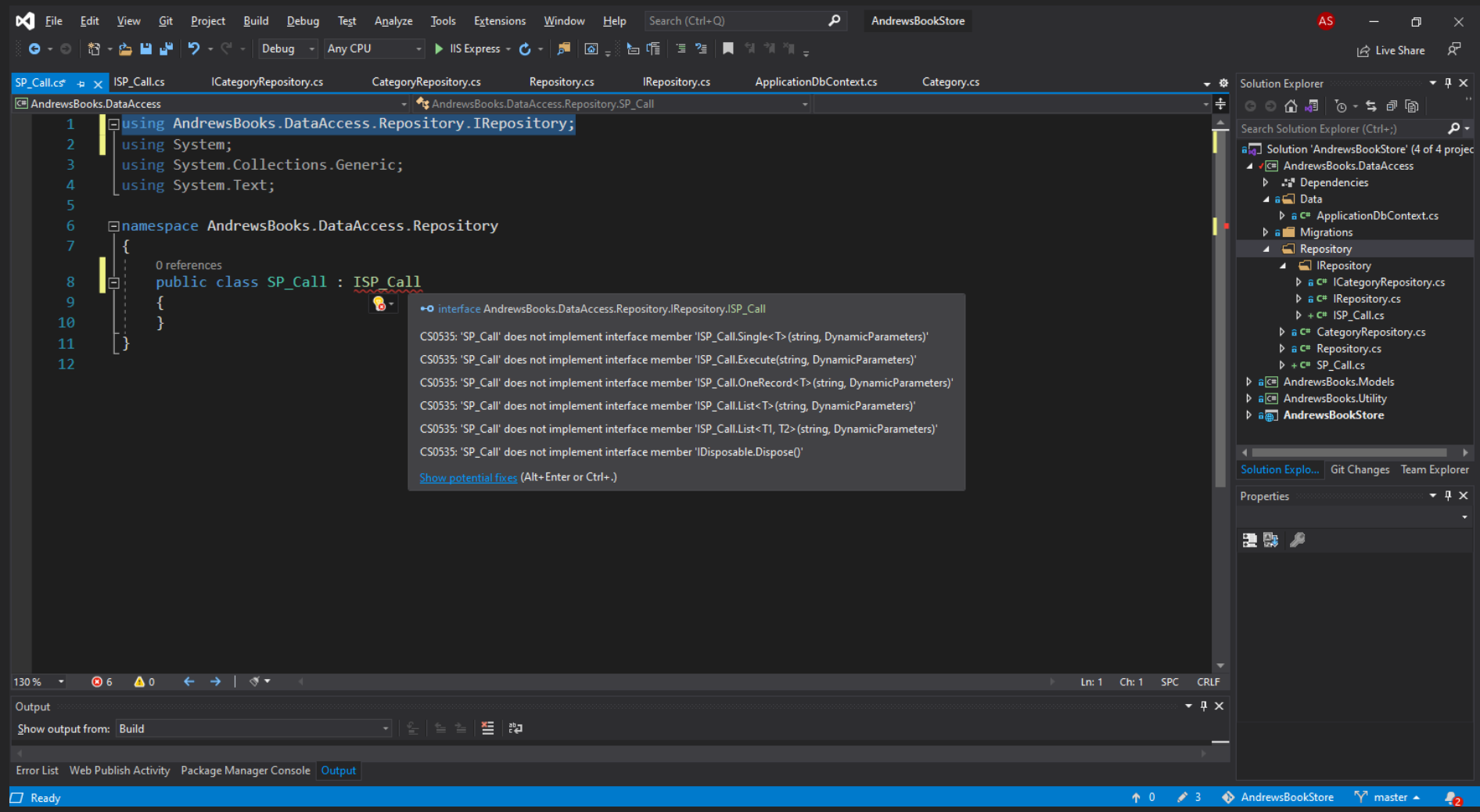

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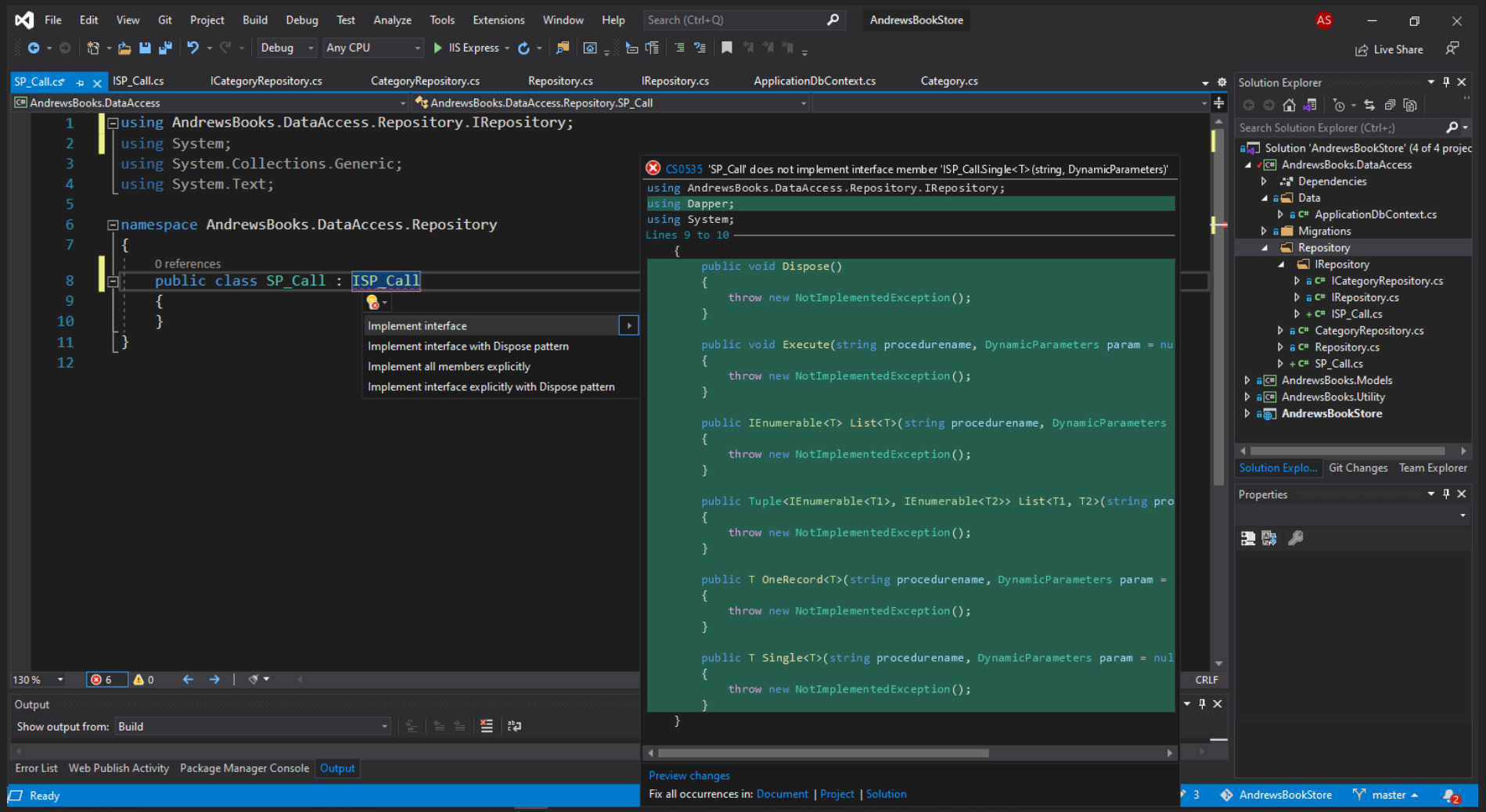

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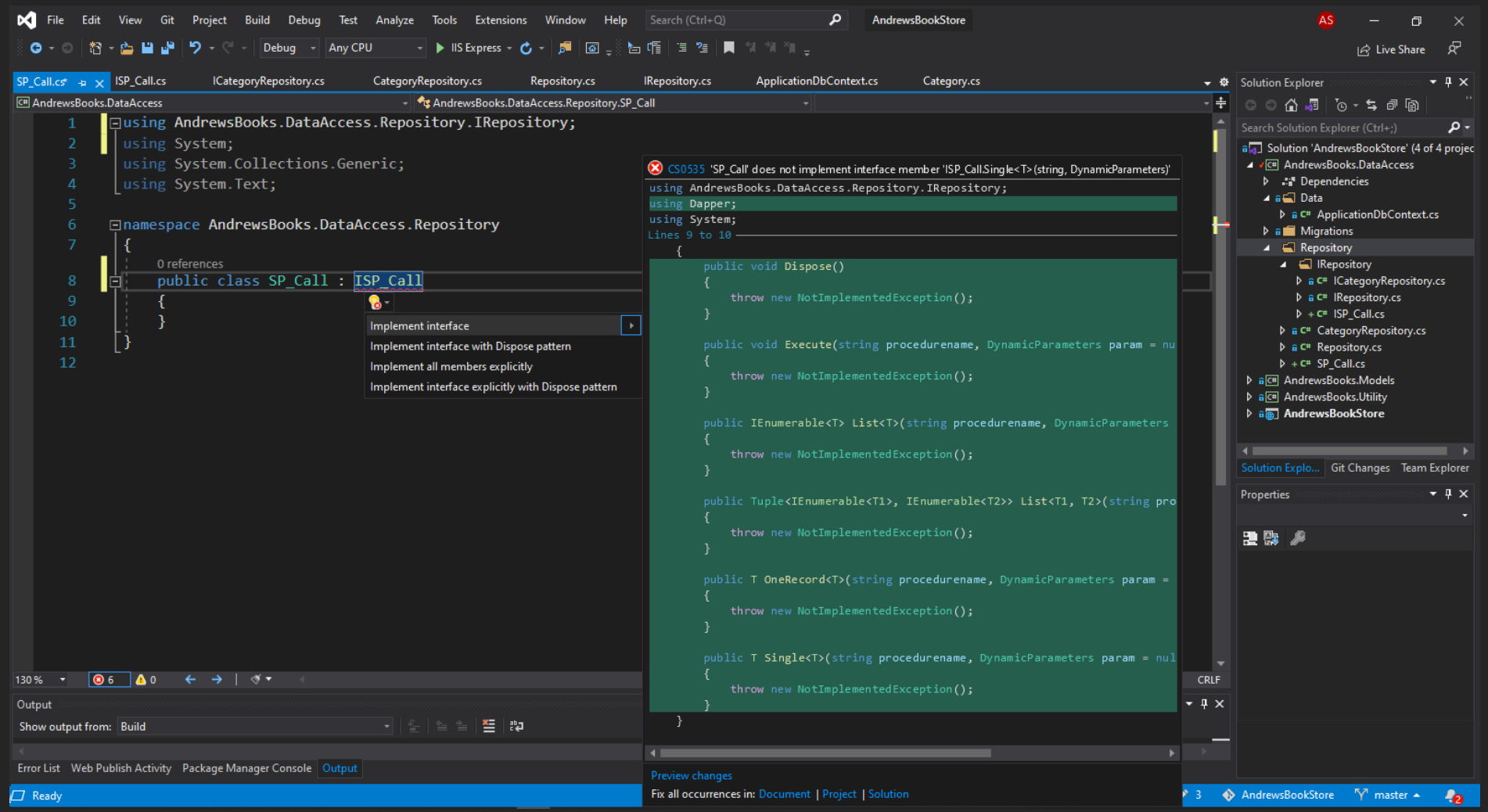

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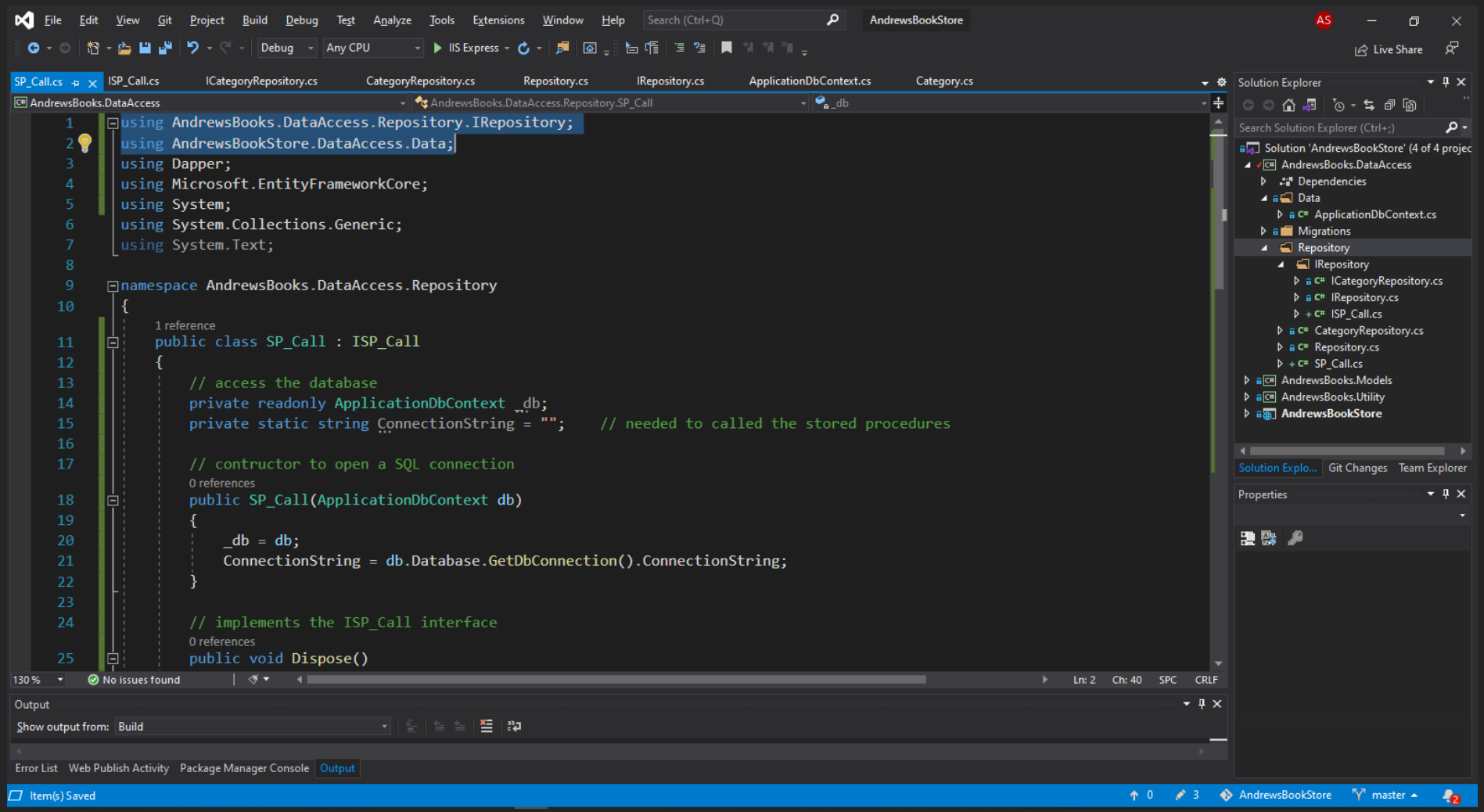

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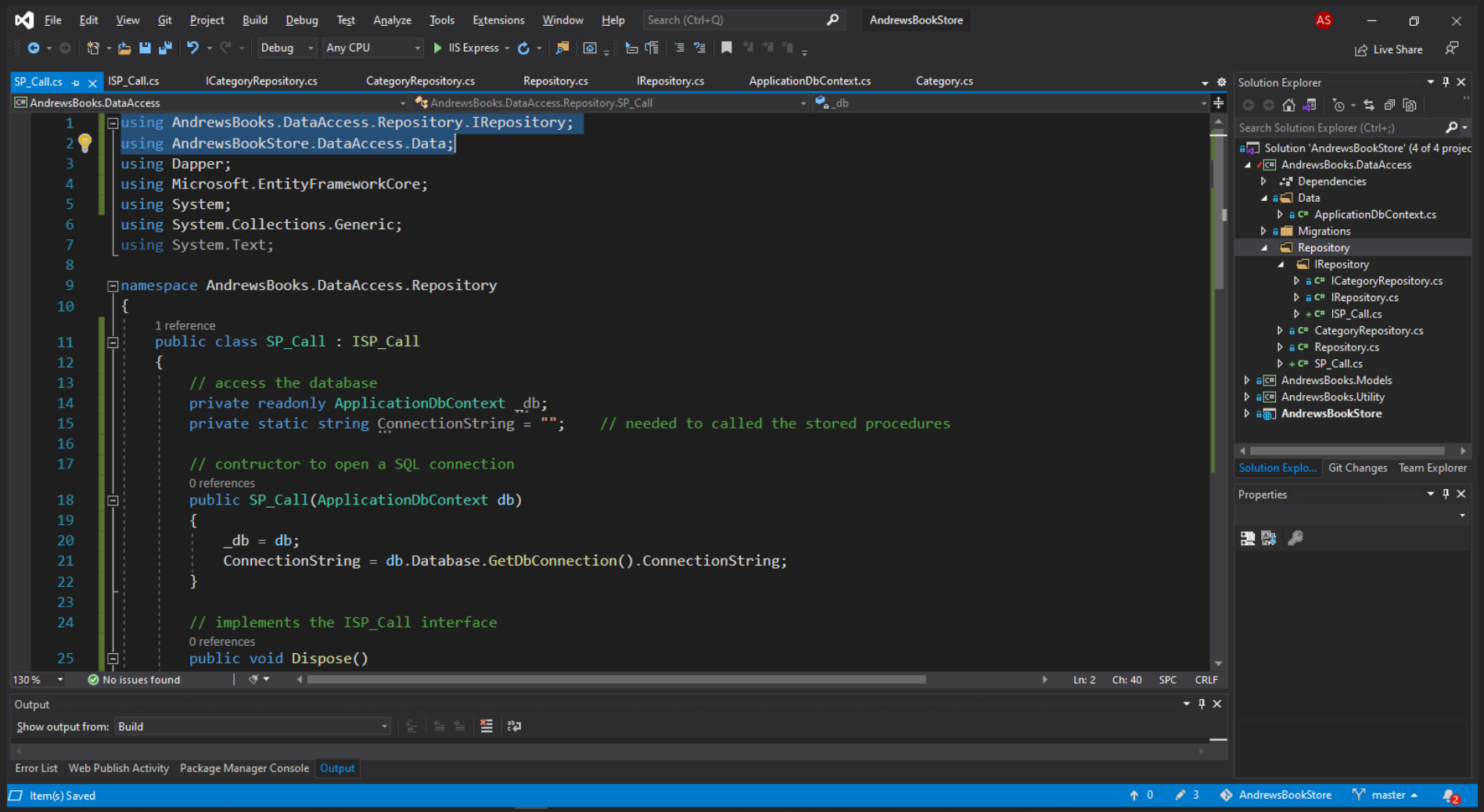

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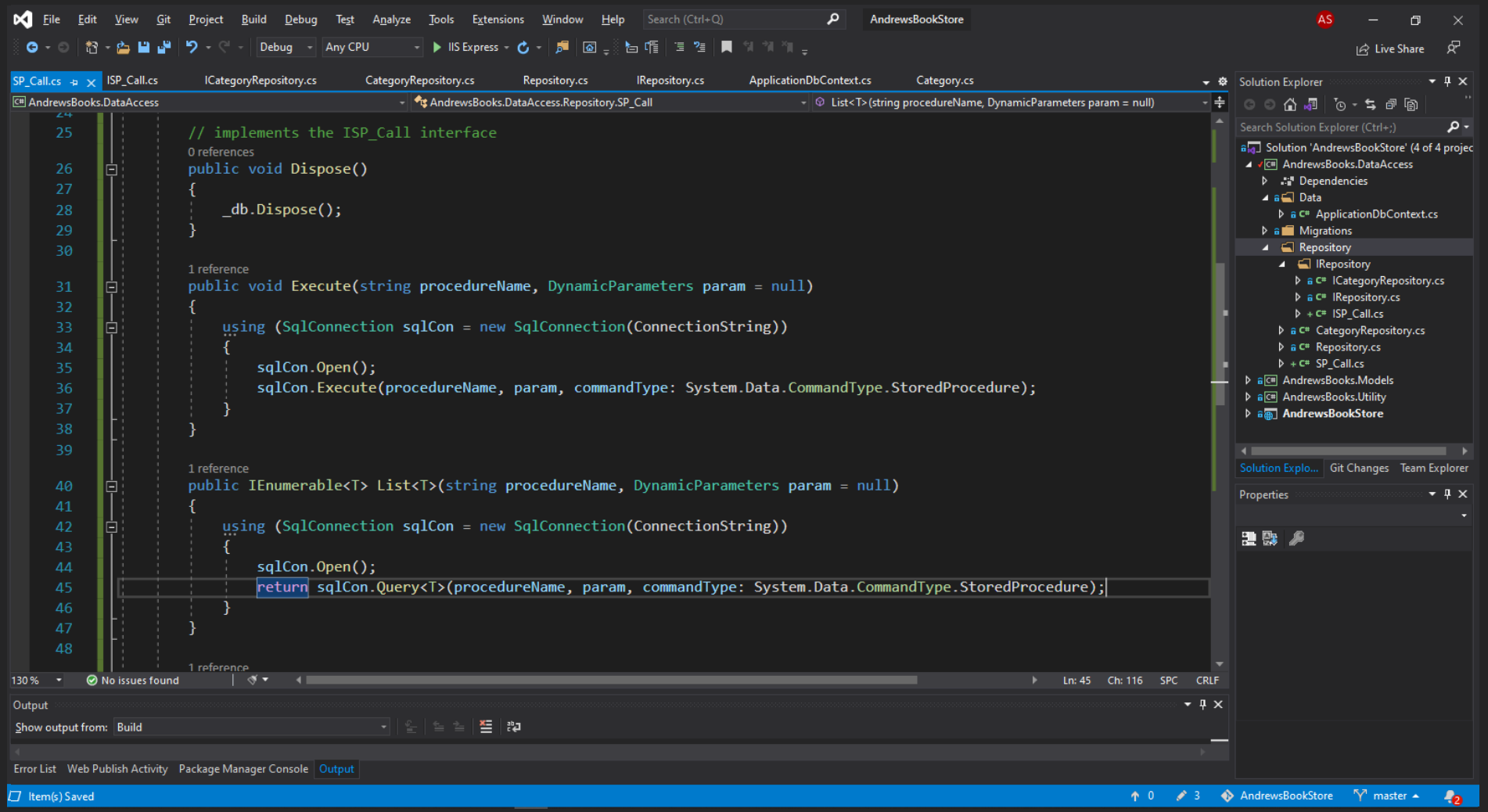

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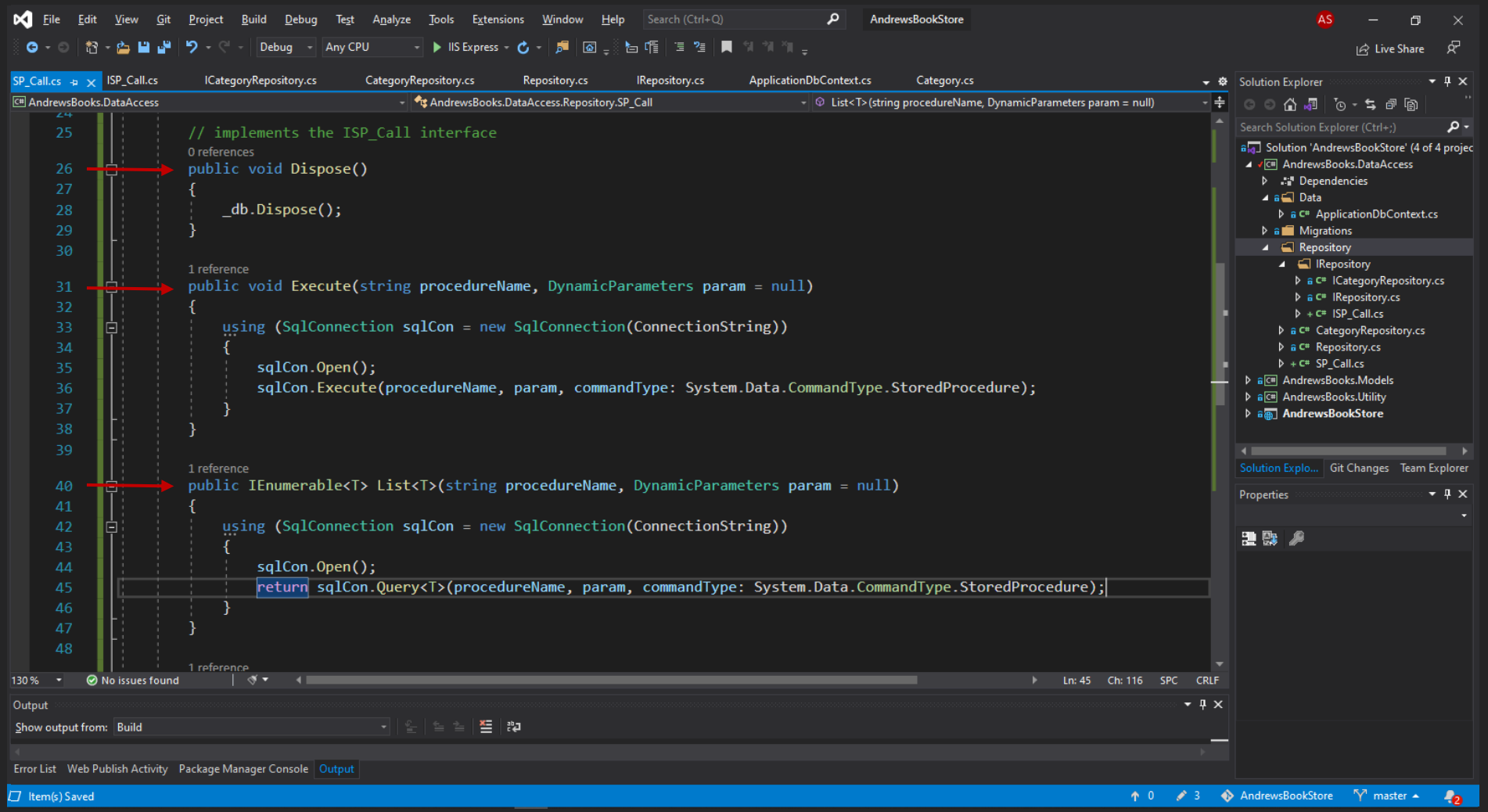

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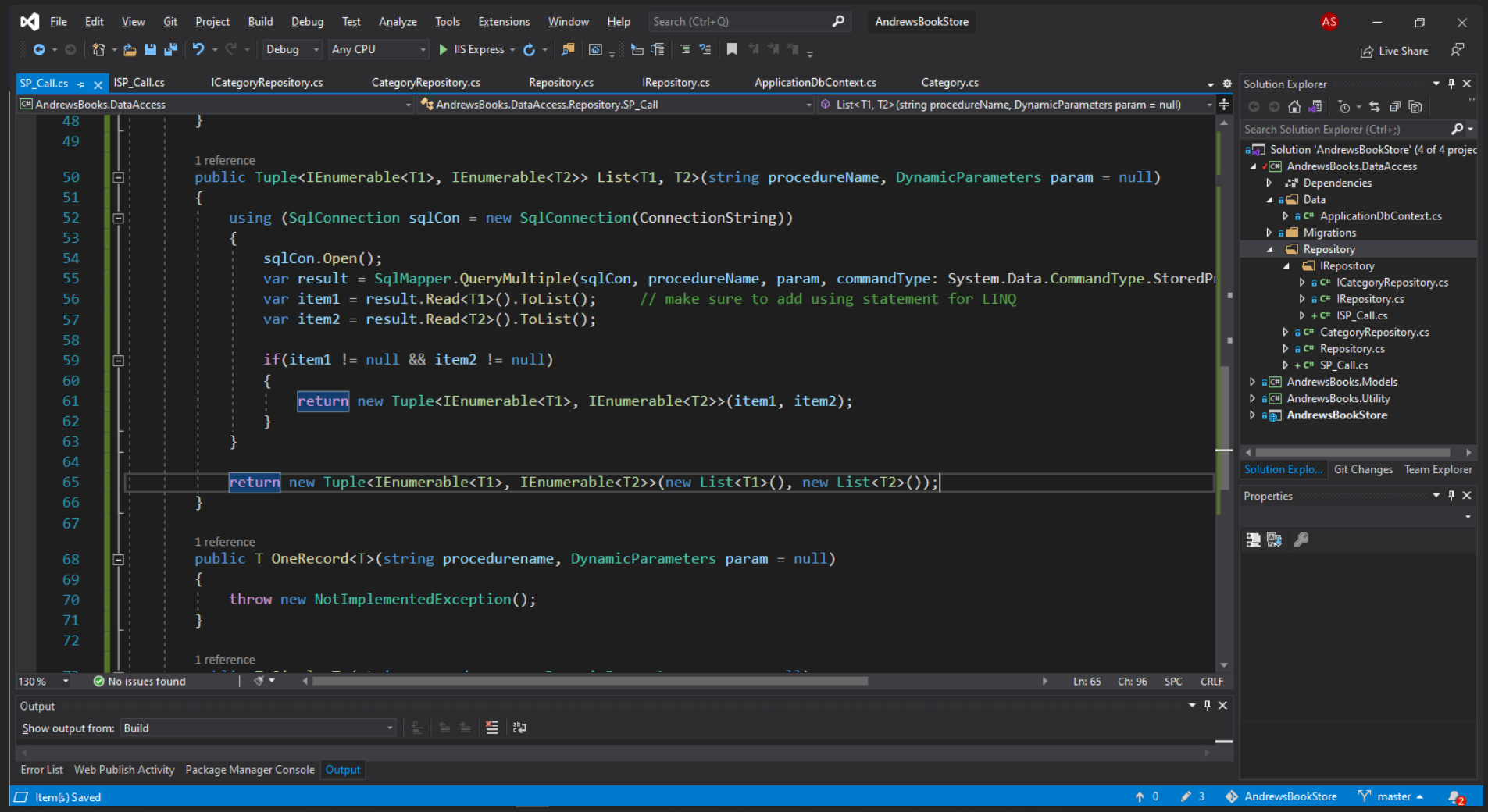

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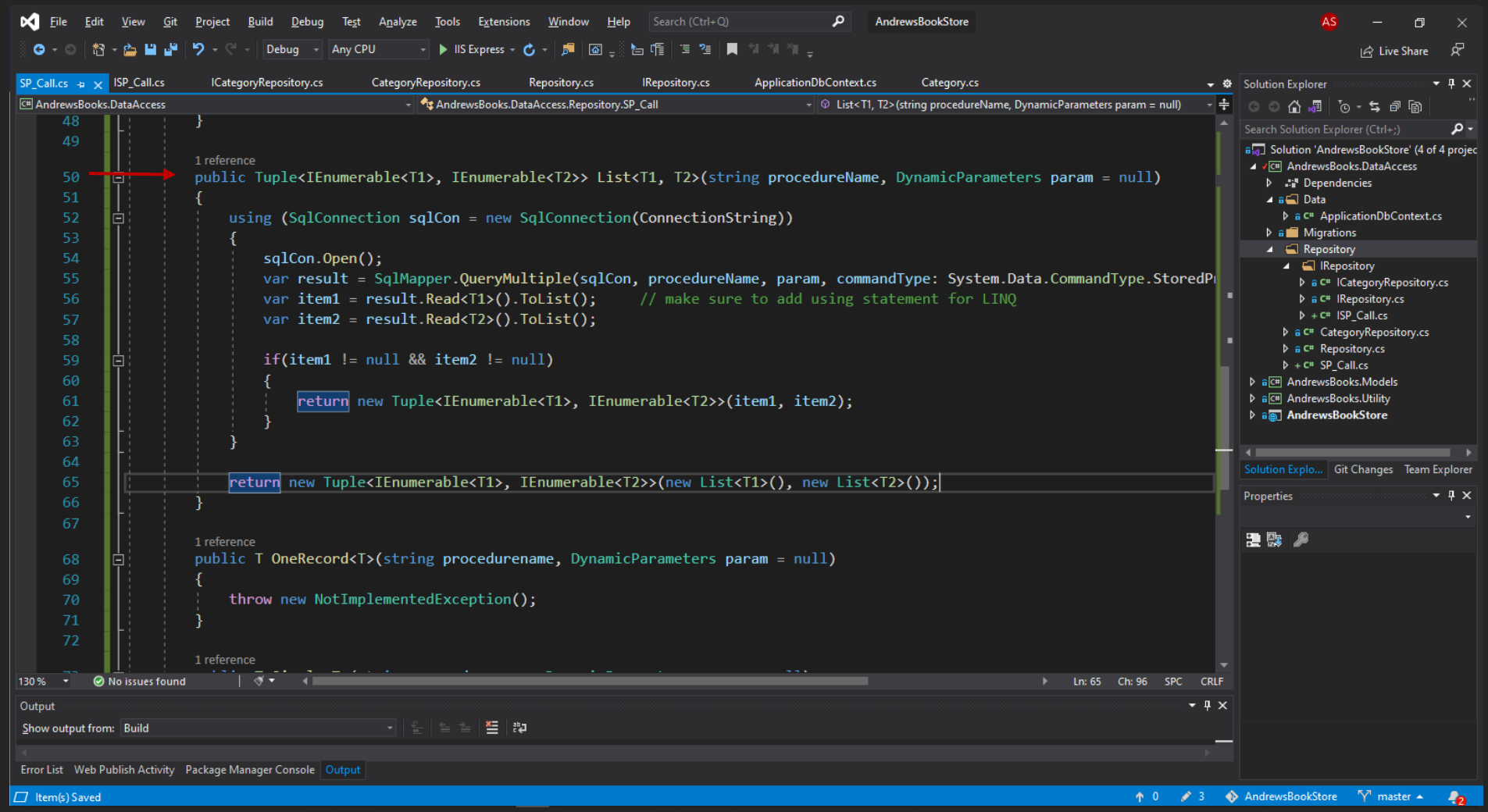

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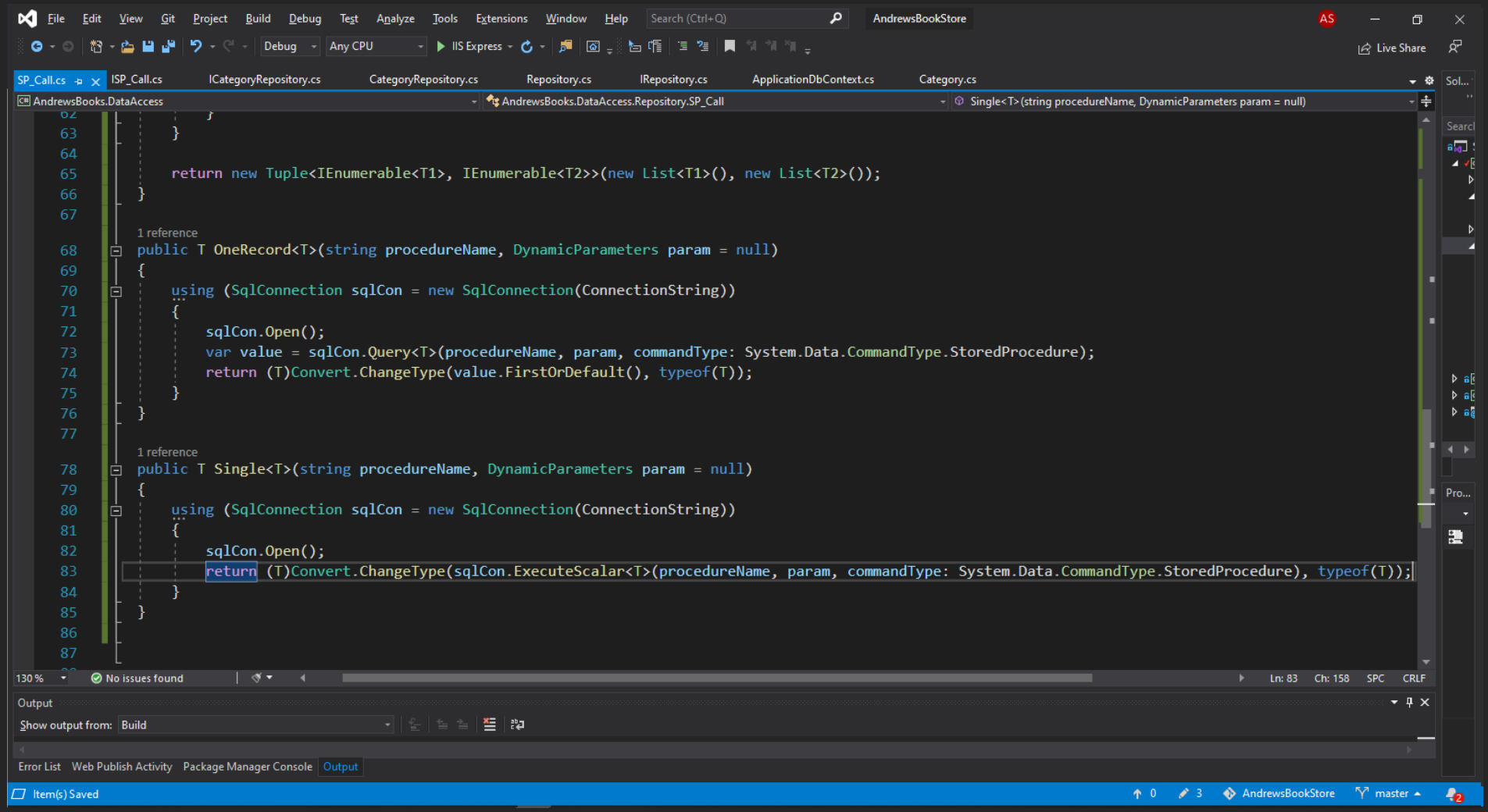

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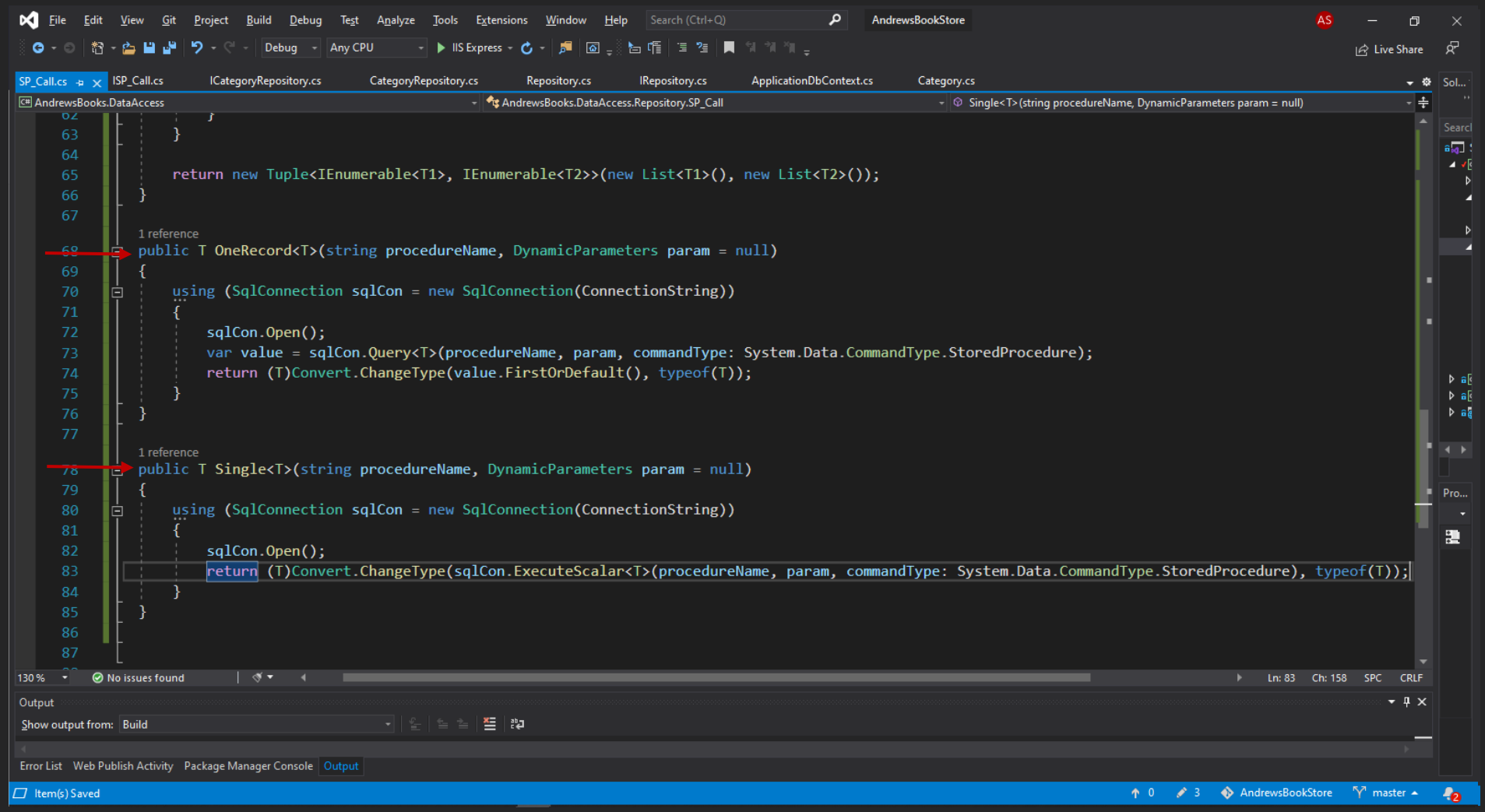

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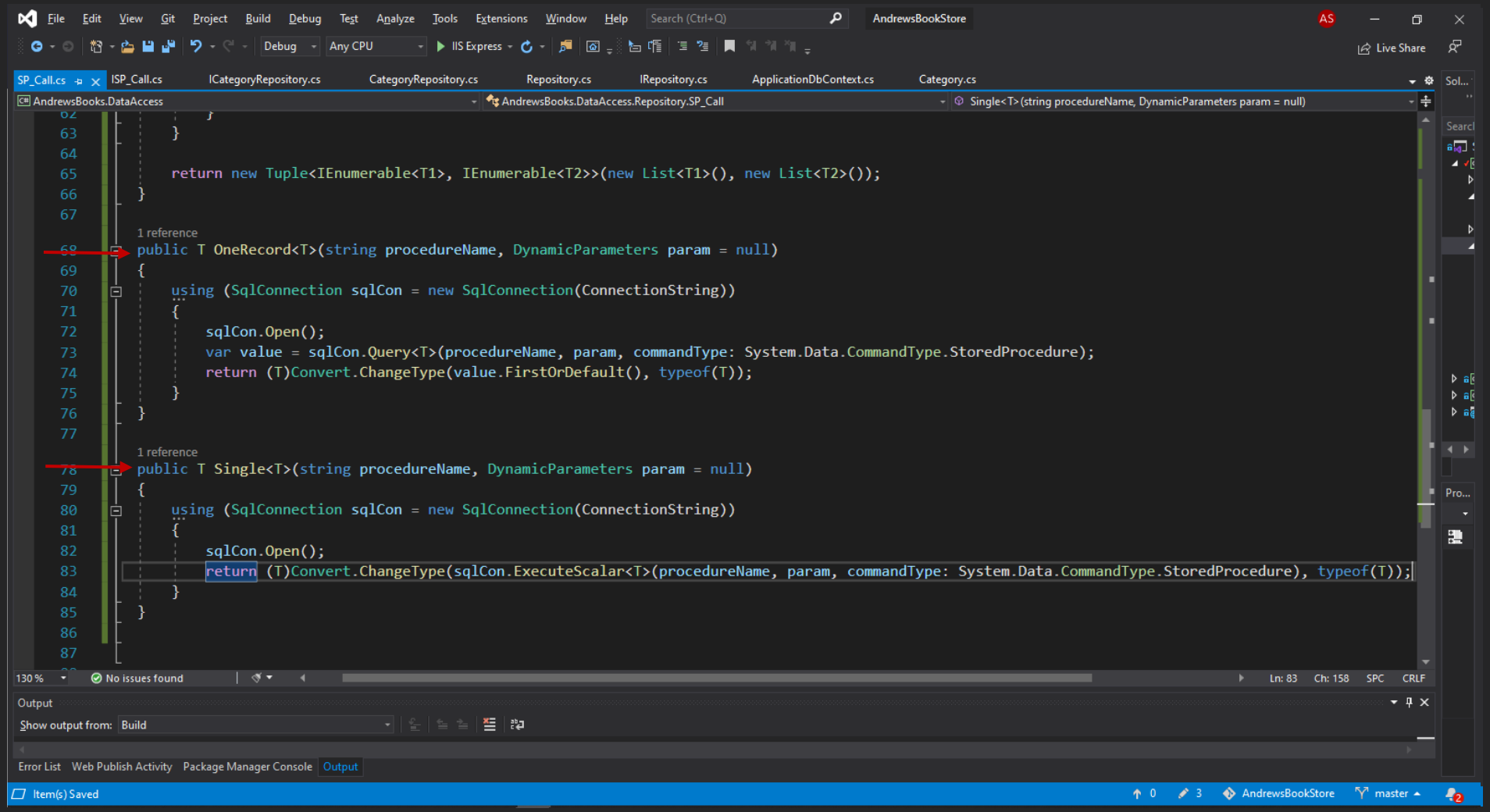
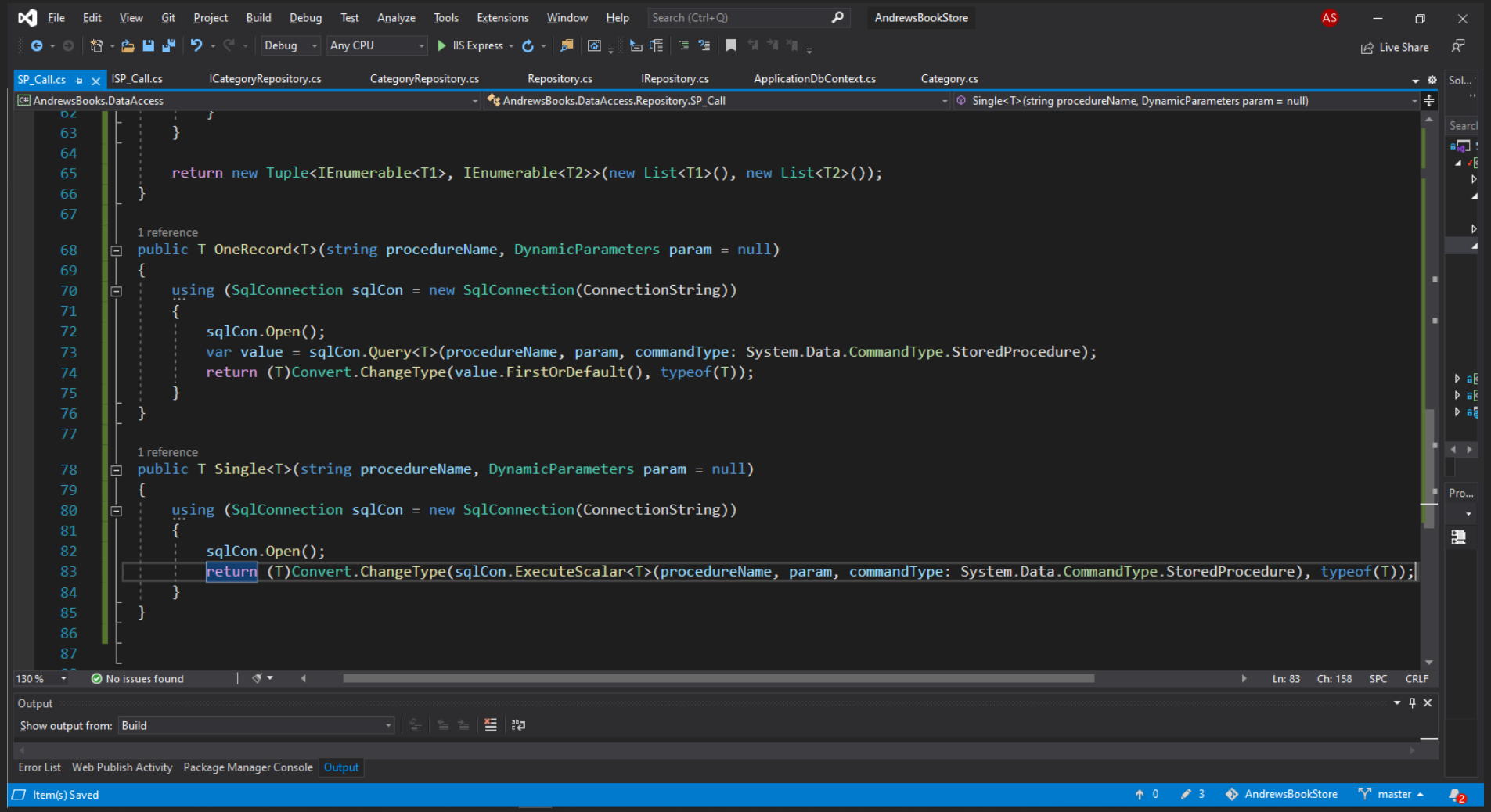
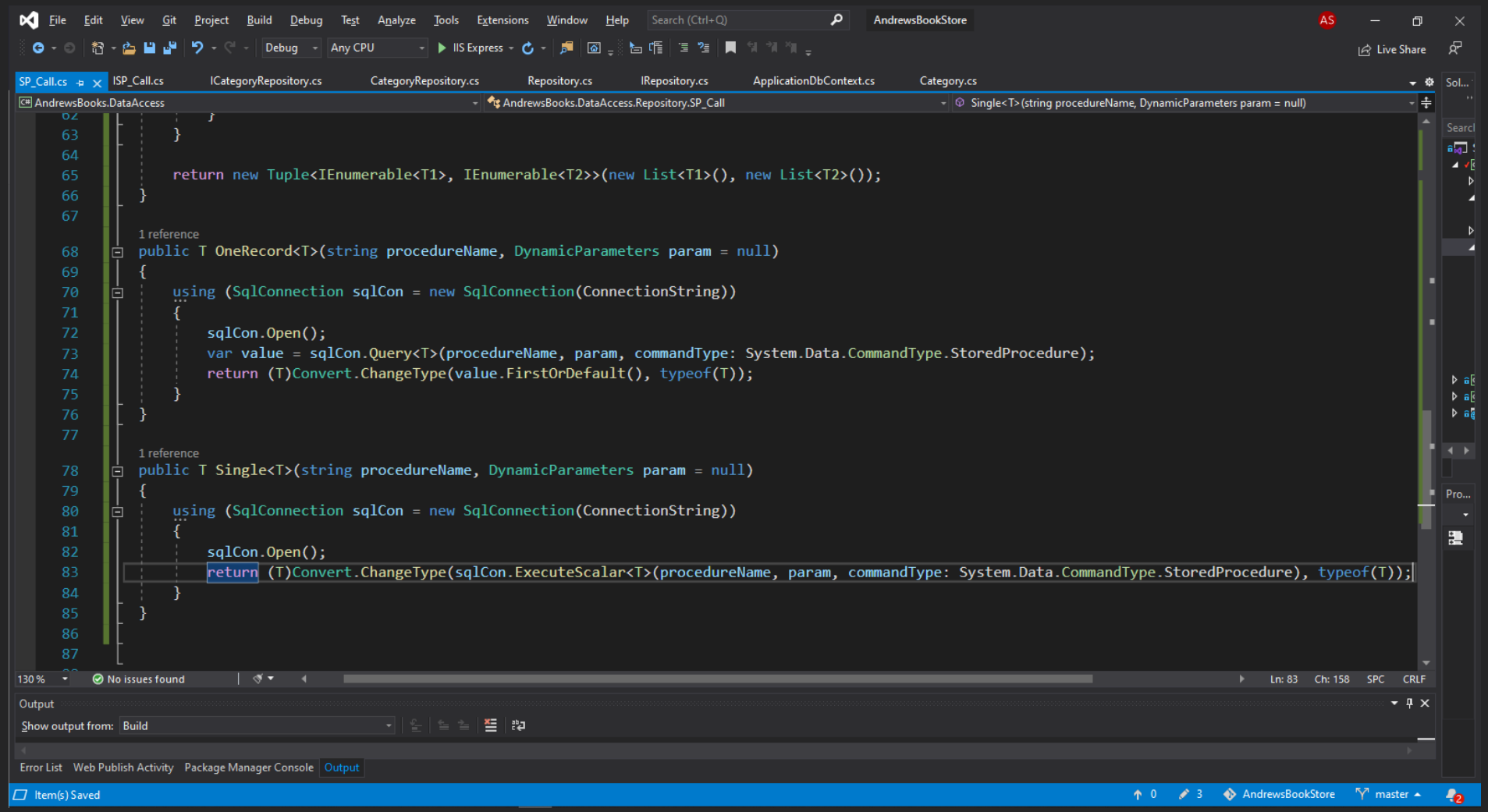
- Now add the wrapper for Unit of Work





** Errata > The Interface file name is - IUnitOfWork*

- Add a new interface (IUnitOfWork) to the IRepository folder and update the code.



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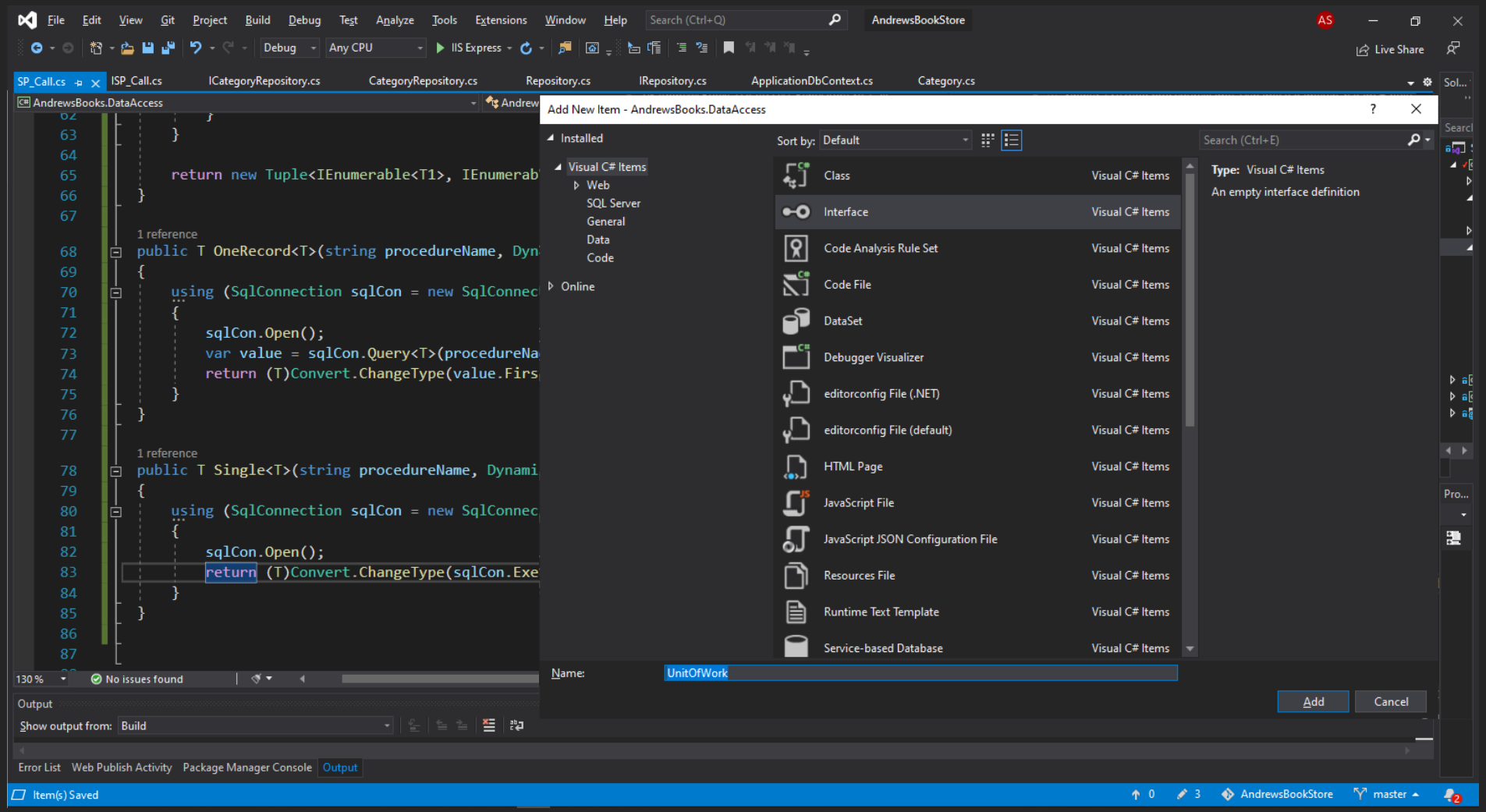

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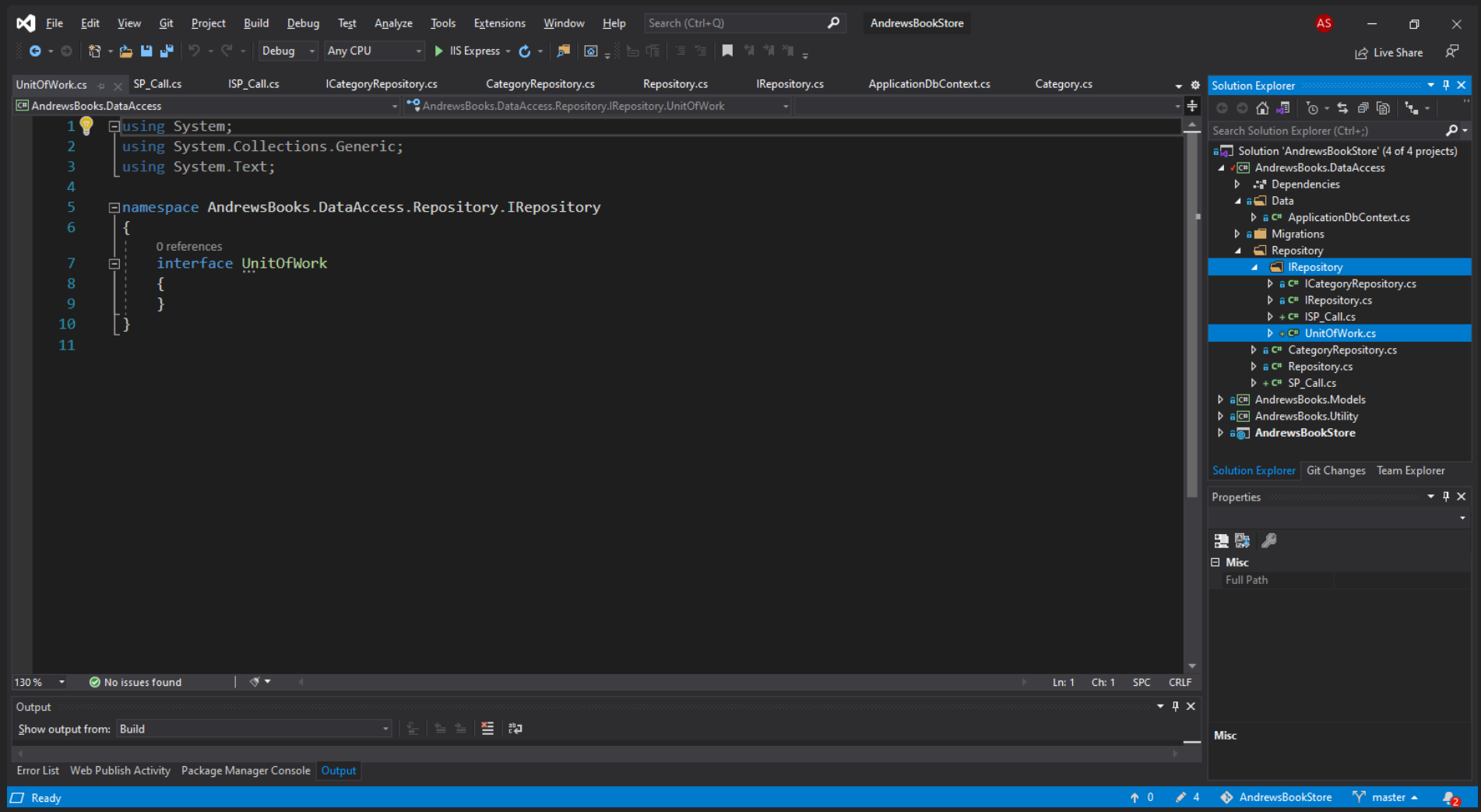

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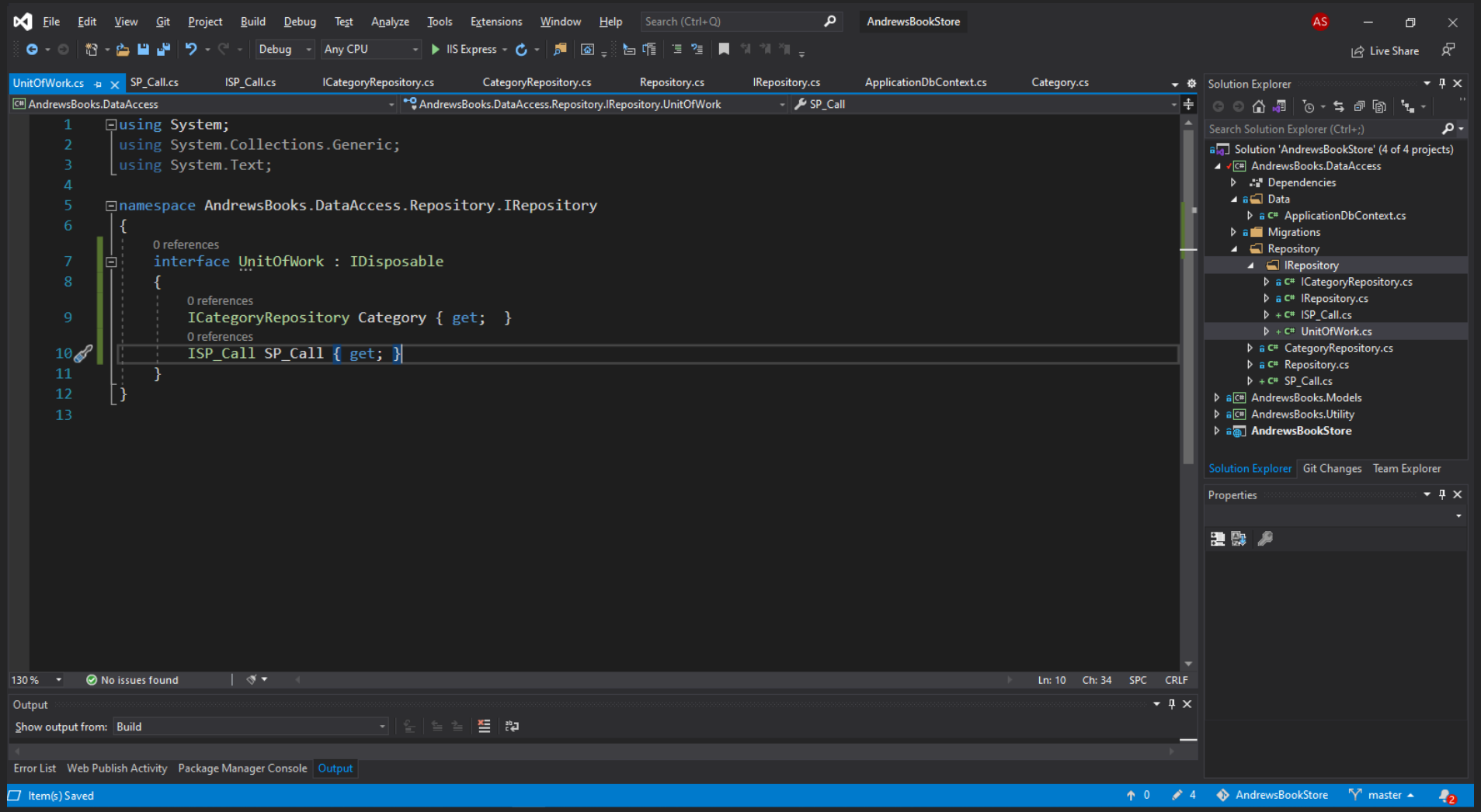

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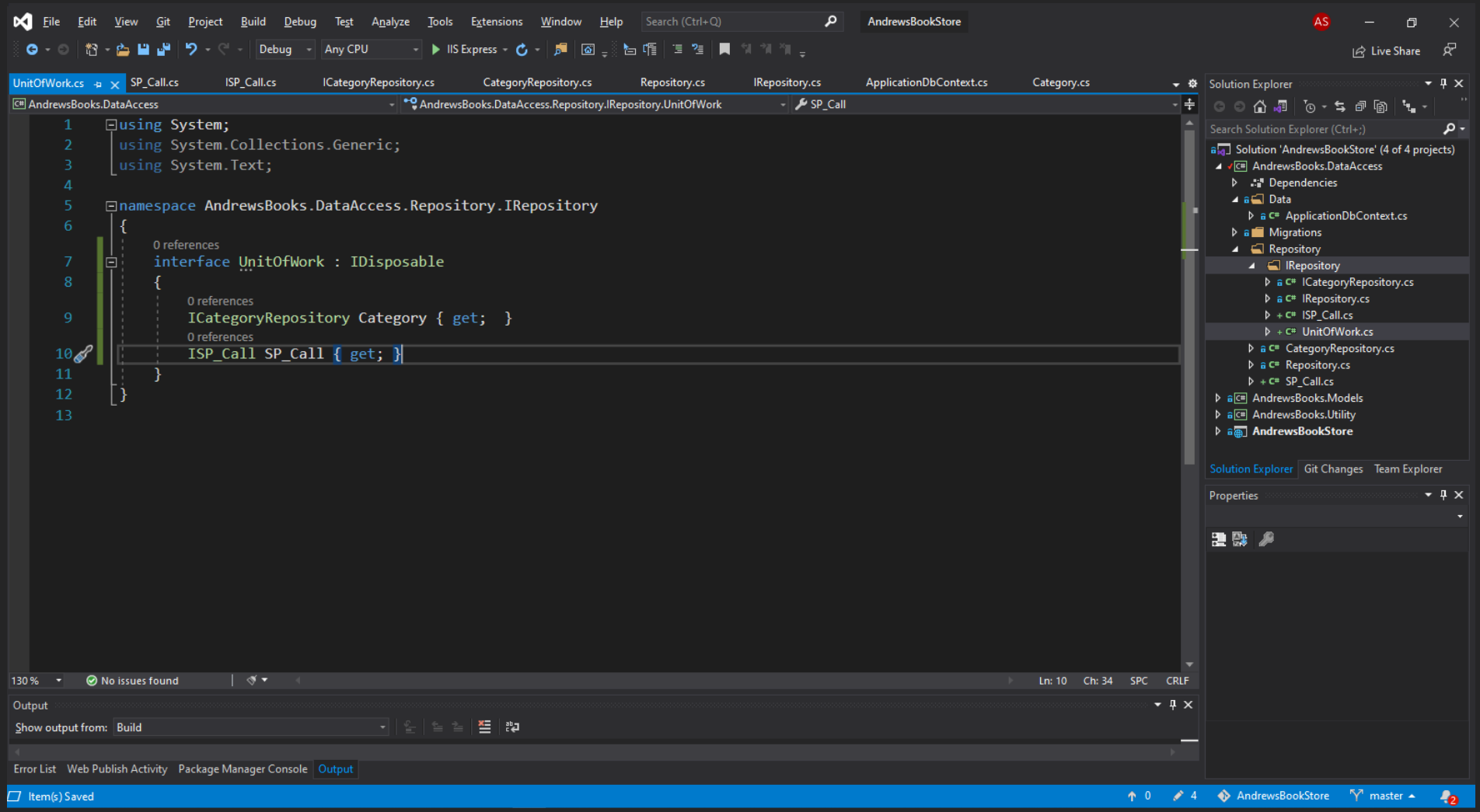

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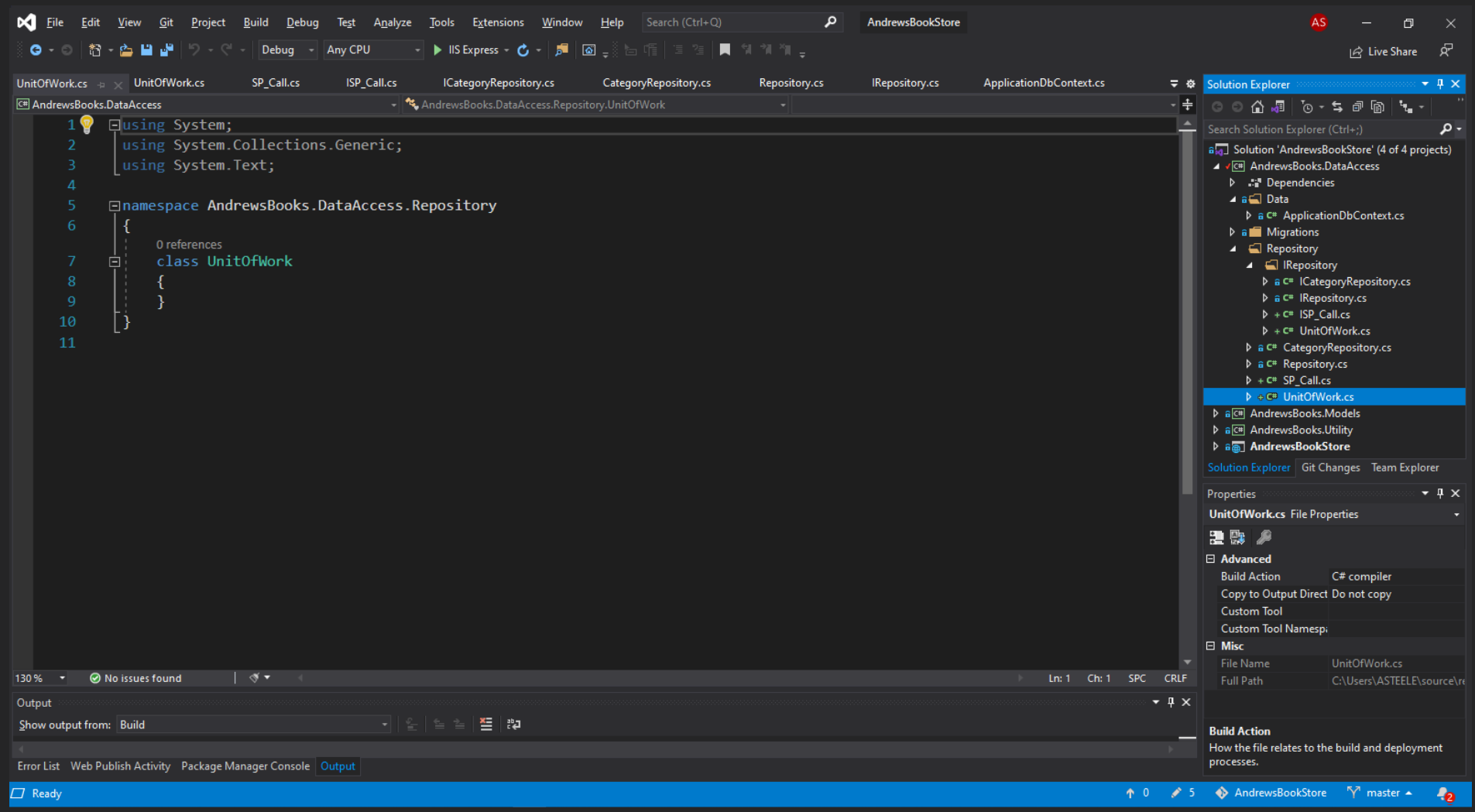

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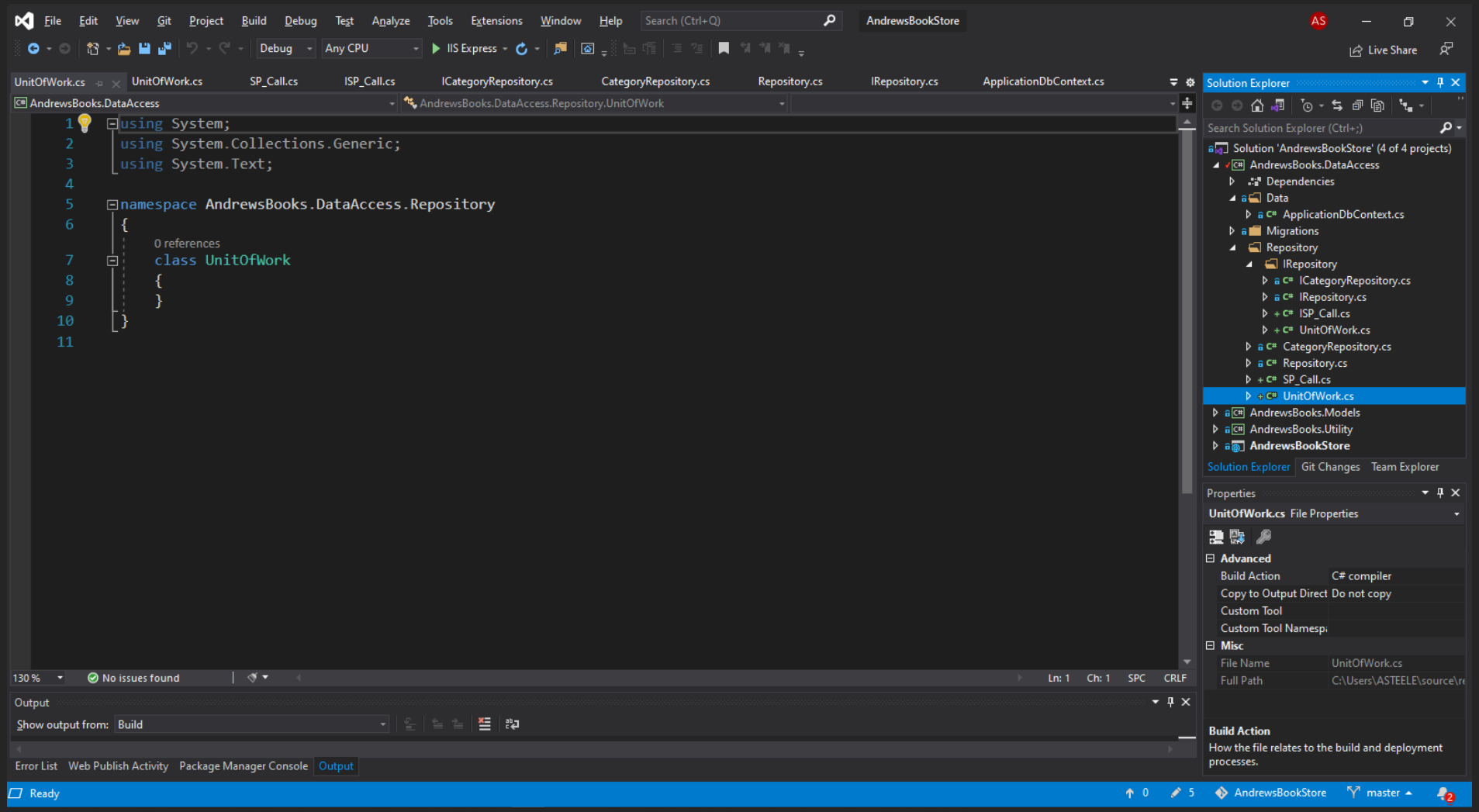

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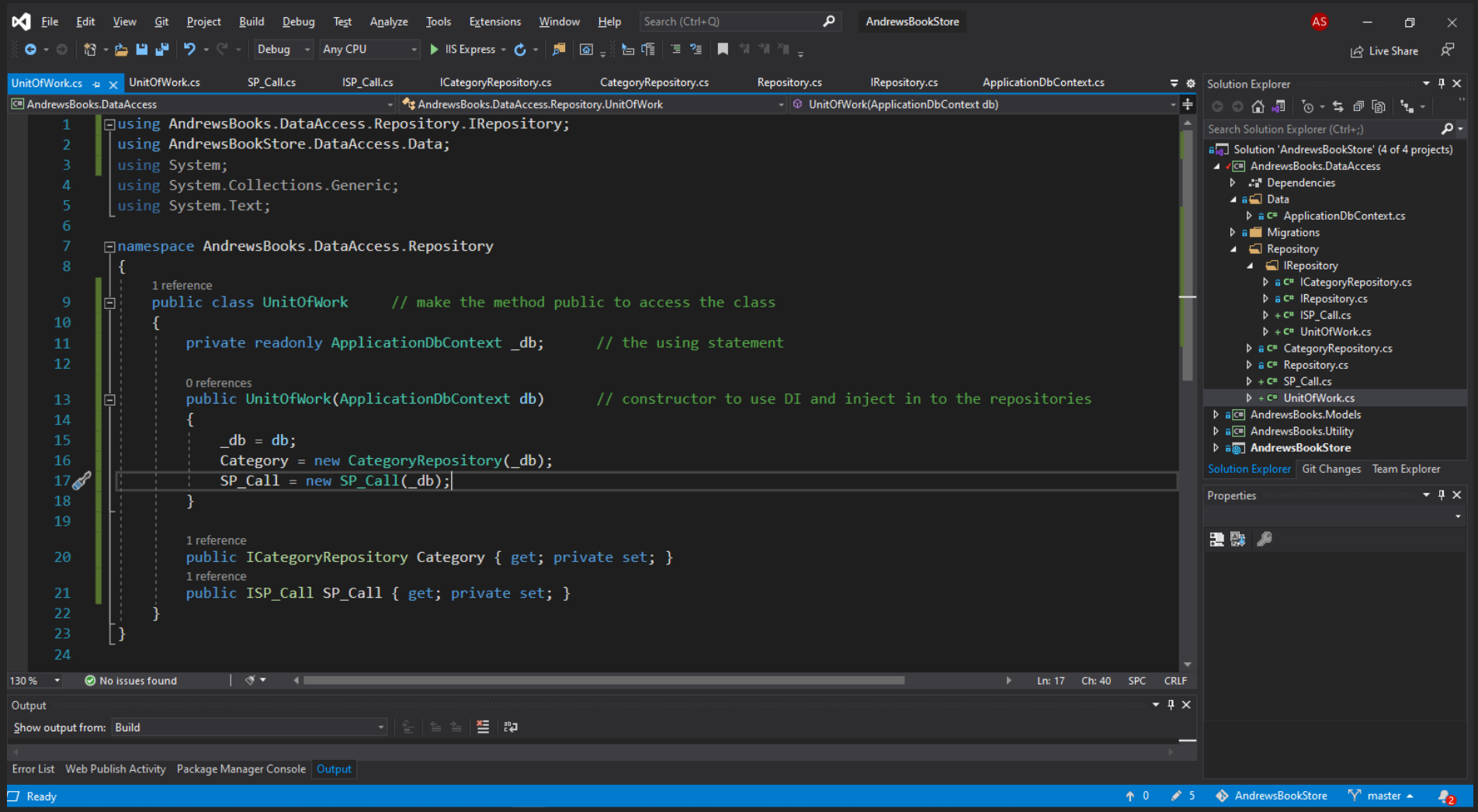

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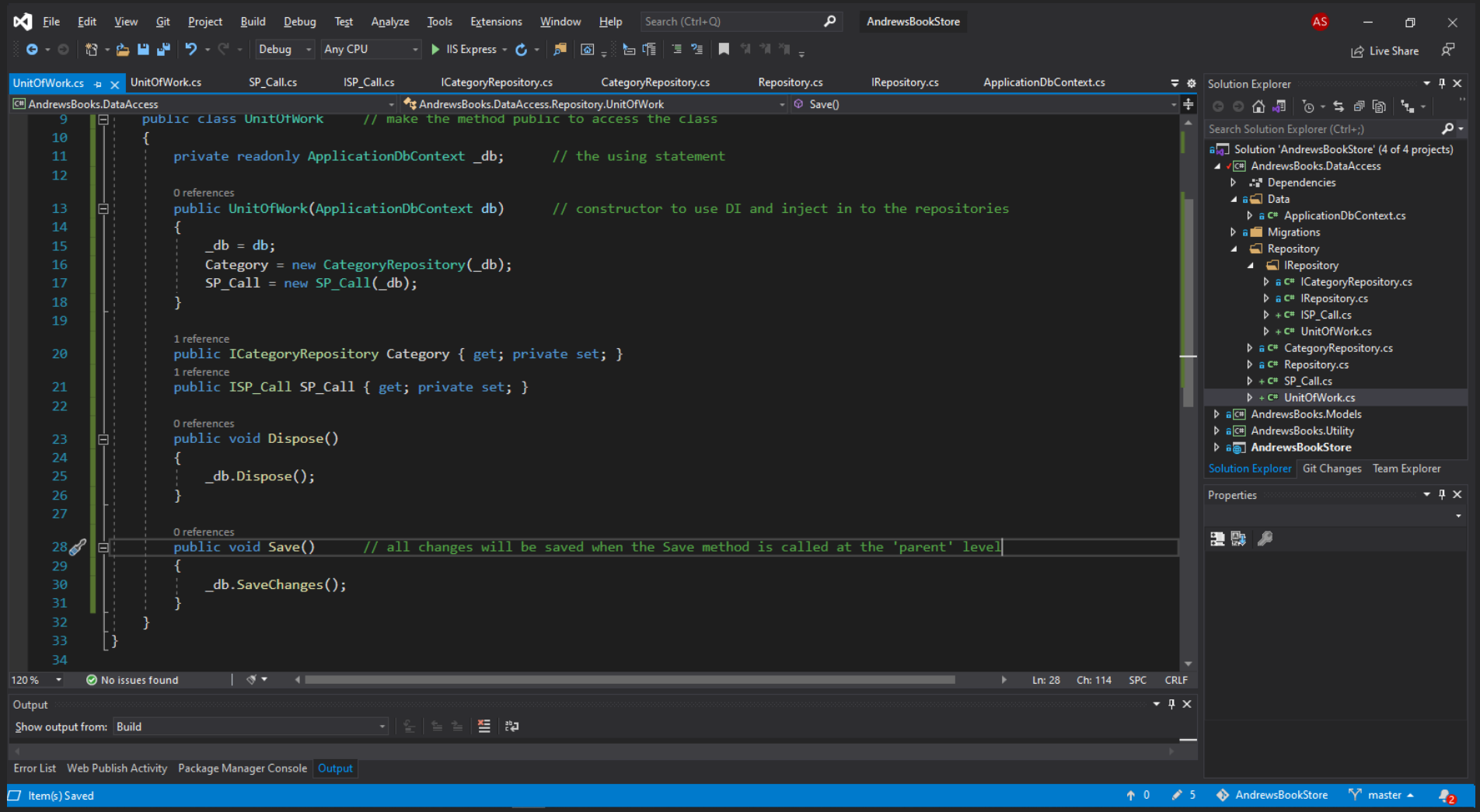

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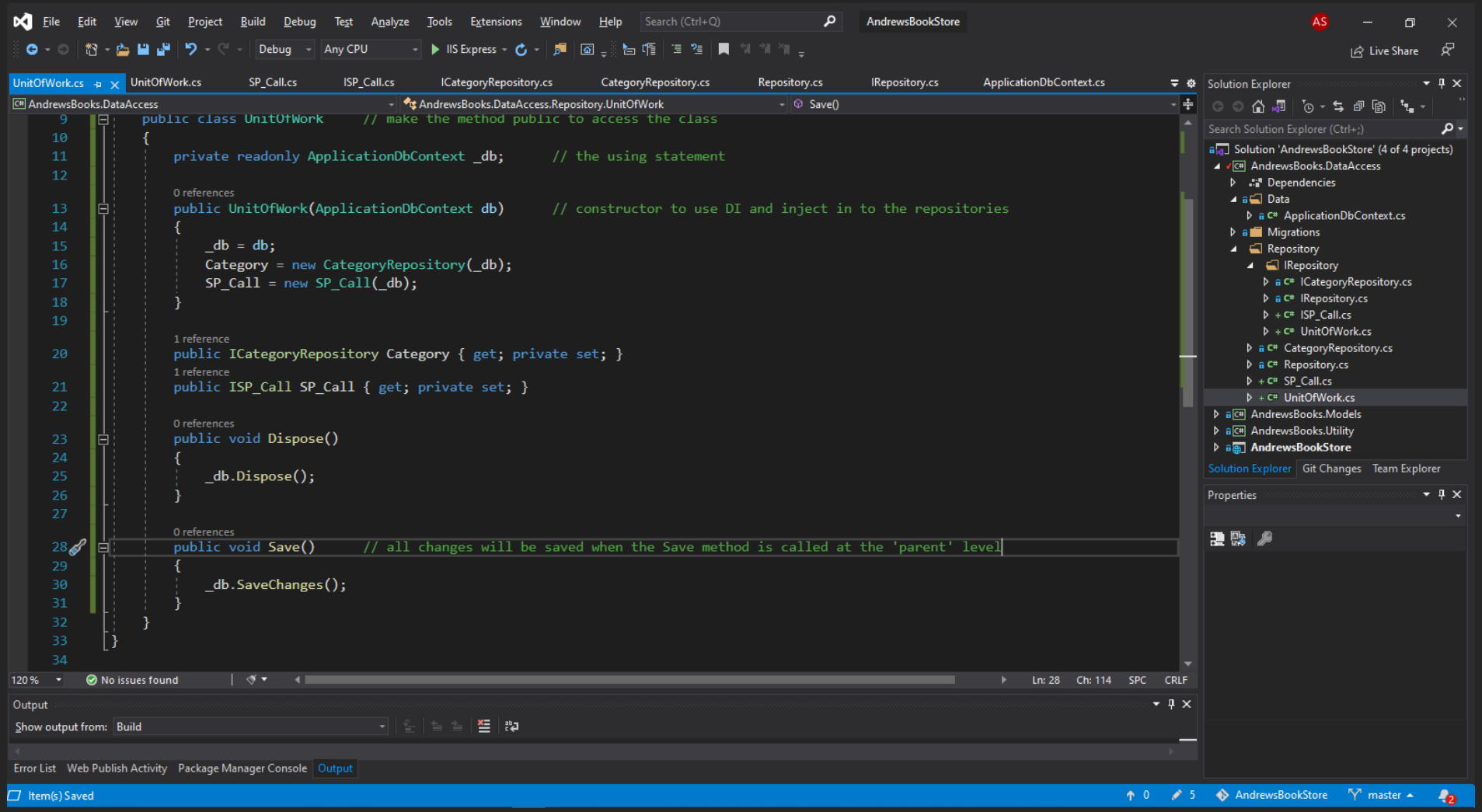

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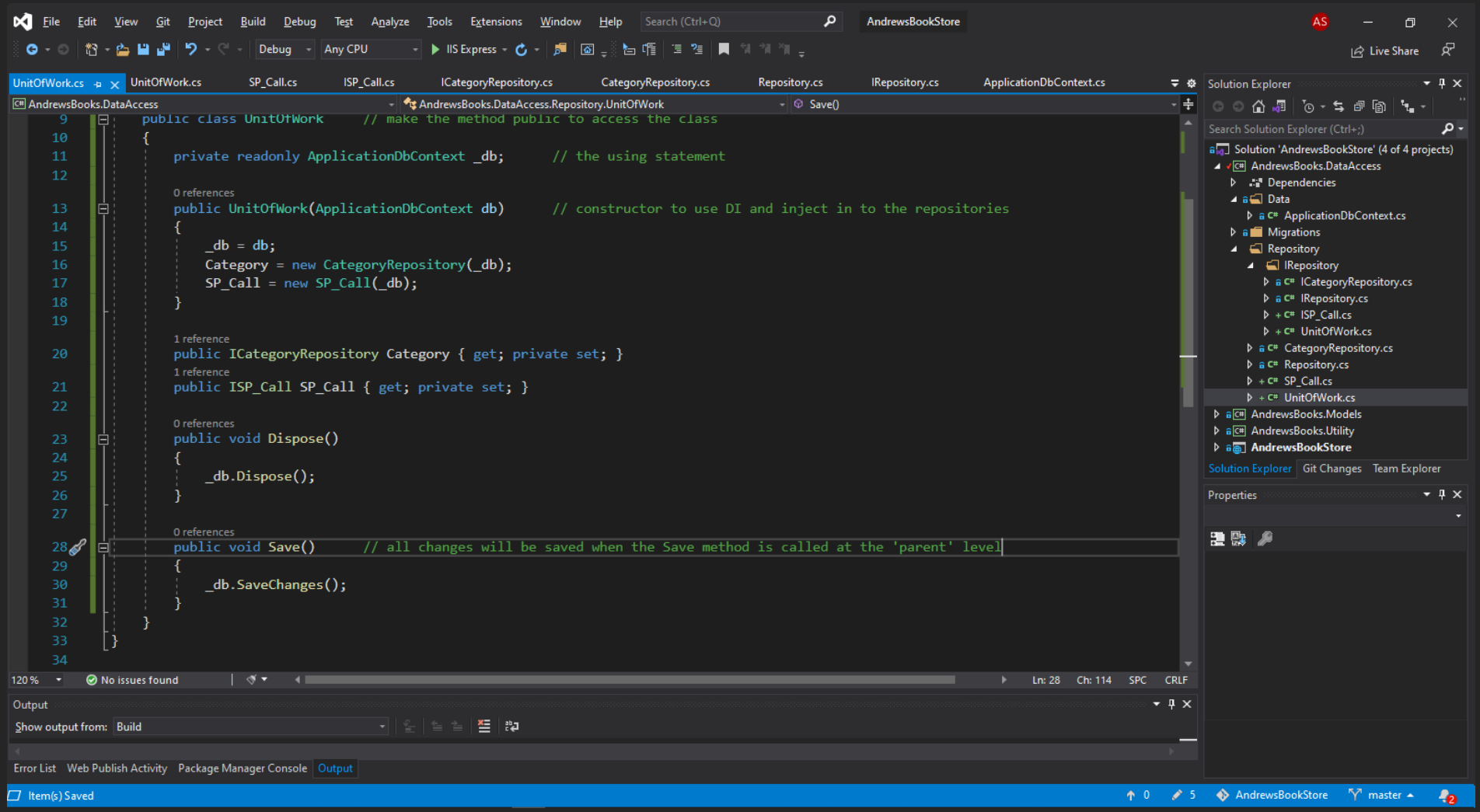

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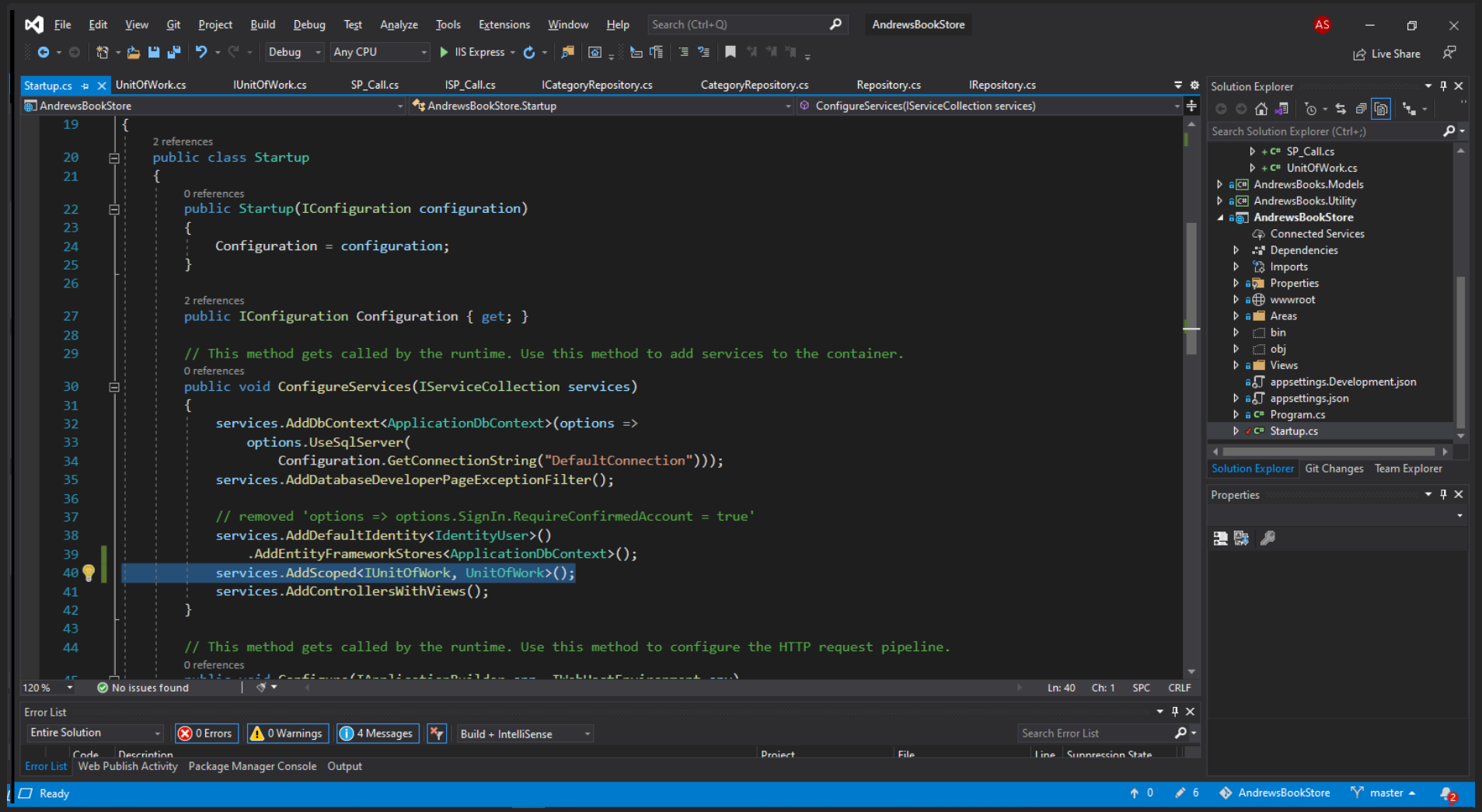

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