## How to create ASP.net identity tables in an already created database using code first?

Asked 3 years, 1 month ago Active 1 year ago Viewed 24k times



My application has been in development for about a month. I now decided to use ASP.NET Identity. I already have the view models for identity but need to create the tables. I was thinking and I am not exactly sure why I do not have the tables already if I have the view models?? I have drop create on in the initializer with my own custom context, I just need to know how to get EF to build the included Identity tables for users and roles? I looked around and none of the posted answers seem to be what I need?



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asp.net

entity-framework

asp.net-identity



edited Apr 17 '17 at 20:59



If you want to just run SQL scripts instead of using EF Migrations you could check my public gist for AspNetCore Identity + IdentityServer4 SQL scripts. – Jeroen Jan 18 '18 at 7:54 /\*

## 4 Answers





## **Consider Migrations**

If applicable, you need to consider building a <u>migration</u>, which will allow you to generate (and potentially execute) the necessary scripts to create the appropriate tables or changes within your database.



By default, you should have some type of ApplicationDbContext class that looks like the following which will be used to define your "security-related" database:



```
public class ApplicationDbContext : IdentityDbContext<ApplicationUser>
{
    public ApplicationDbContext()
            : base("DefaultConnection", false)
    {
      }

    // Other code omitted for brevity
}
```

You'll then just need to run the **Enable-Migrations** command in Package Manager Console:

```
Enable-Migrations
```

This should generate a Migrations folder within your application that contains various configuration files that control how migrations are preformed as well as an InitialCreate migration. This may only be present if you previously had some Code-First related code within your application, if not, don't worry about it. You can then try running the **Update-Database** command, which should execute any migrations (including an initial one) against your database:

```
Update-Database
```

Once your database has been updated, you can continue to make changes to your model and simply create and execute new migrations through the **Add-Migration** command and the previous Update-Database command:

```
Add-Migration "AddedAnotherPropertyToFoo"
Update-Database
```

edited Apr 17 '17 at 21:13

answered Apr 17 '17 at 21:05



I do know about migrations, I was just trying to find a way to get the tables created without the migrations. Is this not possible if the database is already created? – LeRainman Apr 17 '17 at 21:07

You can find scripts in this blog post that you could use to generate the necessary identity-related tables without using migrations I suppose. The post essentially just generates the tables automatically and then the author scripts out each one (e.g. users, roles, etc.) that you could execute on your

```
own. - Rion Williams Apr 17 '17 at 21:12 🖍
```



Run this SQL Script on your database and get it done.





```
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
CREATE TABLE [dbo].[AspNetRoles](
   [Id] [nvarchar](128) NOT NULL,
   [Name] [nvarchar](256) NOT NULL,
CONSTRAINT [PK dbo.AspNetRoles] PRIMARY KEY CLUSTERED
   [Id] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF,
ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]
GO
/***** Object: Table [dbo].[AspNetUserClaims] Script Date: 15-Mar-17 10:27:06 PM
*****/
SET ANSI NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
CREATE TABLE [dbo].[AspNetUserClaims](
   [Id] [int] IDENTITY(1,1) NOT NULL,
```

```
[UserId] [nvarchar](128) NOT NULL,
    [ClaimType] [nvarchar](max) NULL,
    [ClaimValue] [nvarchar](max) NULL,
CONSTRAINT [PK_dbo.AspNetUserClaims] PRIMARY KEY CLUSTERED
    [Id] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF,
ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY] TEXTIMAGE ON [PRIMARY]
G0
/***** Object: Table [dbo].[AspNetUserLogins] Script Date: 15-Mar-17 10:27:06 PM
*****/
SET ANSI_NULLS ON
G0
SET QUOTED_IDENTIFIER ON
G0
CREATE TABLE [dbo].[AspNetUserLogins](
    [LoginProvider] [nvarchar](128) NOT NULL,
    [ProviderKey] [nvarchar](128) NOT NULL,
    [UserId] [nvarchar](128) NOT NULL,
CONSTRAINT [PK_dbo.AspNetUserLogins] PRIMARY KEY CLUSTERED
    [LoginProvider] ASC,
    [ProviderKey] ASC,
```

```
[UserId] ASC
)WITH (PAD INDEX = OFF, STATISTICS NORECOMPUTE = OFF, IGNORE DUP KEY = OFF,
ALLOW ROW LOCKS = ON, ALLOW PAGE LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]
GO
/***** Object: Table [dbo].[AspNetUserRoles] Script Date: 15-Mar-17 10:27:06 PM
*****/
SET ANSI_NULLS ON
G0
SET QUOTED IDENTIFIER ON
G0
CREATE TABLE [dbo].[AspNetUserRoles](
   [UserId] [nvarchar](128) NOT NULL,
   [RoleId] [nvarchar](128) NOT NULL,
CONSTRAINT [PK dbo.AspNetUserRoles] PRIMARY KEY CLUSTERED
   [UserId] ASC,
   [RoleId] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF,
ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]
GO
SET ANSI_NULLS ON
```

```
G0
SET QUOTED IDENTIFIER ON
GO
CREATE TABLE [dbo].[AspNetUsers](
    [Id] [nvarchar](128) NOT NULL,
    [Email] [nvarchar](256) NULL,
    [EmailConfirmed] [bit] NOT NULL,
    [PasswordHash] [nvarchar](max) NULL,
    [SecurityStamp] [nvarchar](max) NULL,
    [PhoneNumber] [nvarchar](max) NULL,
    [PhoneNumberConfirmed] [bit] NOT NULL,
    [TwoFactorEnabled] [bit] NOT NULL,
    [LockoutEndDateUtc] [datetime] NULL,
    [LockoutEnabled] [bit] NOT NULL,
    [AccessFailedCount] [int] NOT NULL,
    [UserName] [nvarchar](256) NOT NULL,
CONSTRAINT [PK dbo.AspNetUsers] PRIMARY KEY CLUSTERED
    [Id] ASC
)WITH (PAD INDEX = OFF, STATISTICS NORECOMPUTE = OFF, IGNORE DUP KEY = OFF,
ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY] TEXTIMAGE_ON [PRIMARY]
GO
ALTER TABLE [dbo].[AspNetUserClaims] WITH CHECK ADD CONSTRAINT
[FK dbo.AspNetUserClaims_dbo.AspNetUsers_UserId] FOREIGN KEY([UserId])
```

```
REFERENCES [dbo].[AspNetUsers] ([Id])
ON DELETE CASCADE
G0
ALTER TABLE [dbo].[AspNetUserClaims] CHECK CONSTRAINT
[FK_dbo.AspNetUserClaims_dbo.AspNetUsers_UserId]
GO
ALTER TABLE [dbo].[AspNetUserLogins] WITH CHECK ADD CONSTRAINT
[FK_dbo.AspNetUserLogins_dbo.AspNetUsers_UserId] FOREIGN KEY([UserId])
REFERENCES [dbo].[AspNetUsers] ([Id])
ON DELETE CASCADE
G0
ALTER TABLE [dbo].[AspNetUserLogins] CHECK CONSTRAINT
[FK dbo.AspNetUserLogins_dbo.AspNetUsers_UserId]
GO
ALTER TABLE [dbo].[AspNetUserRoles] WITH CHECK ADD CONSTRAINT
[FK dbo.AspNetUserRoles dbo.AspNetRoles RoleId] FOREIGN KEY([RoleId])
REFERENCES [dbo].[AspNetRoles] ([Id])
ON DELETE CASCADE
GO
ALTER TABLE [dbo].[AspNetUserRoles] CHECK CONSTRAINT
[FK dbo.AspNetUserRoles_dbo.AspNetRoles_RoleId]
G0
ALTER TABLE [dbo].[AspNetUserRoles] WITH CHECK ADD CONSTRAINT
[FK_dbo.AspNetUserRoles_dbo.AspNetUsers_UserId] FOREIGN KEY([UserId])
REFERENCES [dbo].[AspNetUsers] ([Id])
ON DELETE CASCADE
GO
```

ALTER TABLE [dbo].[AspNetUserRoles] CHECK CONSTRAINT [FK dbo.AspNetUserRoles\_dbo.AspNetUsers\_UserId]

GO

answered Jul 11 '17 at 9:00



What version does this support? Where did you get this from? – Barry MSIH Jul 25 '18 at 17:49

This script works with old MVC. I got it from a database created by new web application with authentication. – Mohammed Osman Jul 26 '18 at 11:33



tables were created.

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So after a bit of reading a fiddling i got the answer. All I had to do was finally run the register method from ASP.NET Identity and all the

answered Apr 18 '17 at 15:33



What is this Register method? Is it on the Account Controller? - Vasu Inukollu Sep 24 '19 at 15:57

Note: depending on your setup the tables may create in a local database file. – John M Nov 11 '19 at 17:17



Perhaps just run the ASP.NET Identity Sql Scripts against the database if you do not want to Enable Migrations:

https://www.codeproject.com/Tips/677279/SQL-script-for-creating-an-ASP-NET-Identity-Databa





answered Apr 17 '17 at 21:15



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