# Data Maintenance With the Entity Framework

# Project Set Up

Use the project created in the Database First Coding with EF and LINQ session.

## Now do the following regardless of project type:

* Add the following code to the bottom of the Main function in Program.cs:

//DATA MAINTENANCE

// Creating a new movie

Movie mov = new Movie();

using (MoviesContext db = new MoviesContext())

{

mov.Title = "Hairy Spotter and the Potion of Doom";

mov.Tagline = "Hairy, Germione and Don get up to mischief in a potions class!";

mov.Overview = "Hairy hops off to Cakewalks and gets into a couple of scrapes but triumphs in the end";

mov.Runtime = int.MaxValue;

mov.Homepage = "https://www.youtube.com/watch?v=-\_vqx2BsSj0&t=125s";

db.Movies.Add(mov);

db.SaveChanges();

}

* Review the code and try to work out what it’s doing.
* Build and run the code and confirm it behaves as you expected by opening SQL Server Management Studio (SSMS) and running the following piece of SQL against the Movies database:

SELECT \* FROM Movie WHERE title Like 'Hairy%'

* Add the following code to the bottom of the Main function in Program.cs:

// Updating Movie tag line

using (MoviesContext db = new MoviesContext())

{

Movie m = db.Movies.Single(m => m.MovieId == mov.MovieId);

m.Tagline += "\*";

db.SaveChanges();

}

// Deleting a movie

using (MoviesContext db = new MoviesContext())

{

Movie m = db.Movies.Single(m => m.MovieId == mov.MovieId);

db.Movies.Remove(m);

db.SaveChanges();

}

* Review the code and try to work out what it’s doing.
* Run the SQL statement in SSMS again and confirm the C# code has behaved as you expected.