

# Entity Framework

## Code-first Migrations

```
add-migration <name>
add-migration <name> -force (to overwrite the last migration)
update-database
```

## Seeding the Database

Create a new empty migration and use the Sql method:

```
Sql("INSERT INTO ...")
```

## Overriding Conventions

```
[Required]
[StringLength(255)]
public string Name { get; set; }
```

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## Querying Objects

```
public class MoviesController
{
    private ApplicationDbContext _context;

    public MoviesController()
    {
        _context = new ApplicationDbContext();
    }

    protected override Dispose()
    {
        _context.Dispose();
    }

    public ActionResult Index()
    {
        var movies = _context.Movies.ToList();

        ...
    }
}
```

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## LINQ Extension Methods

```
_context.Movies.Where(m => m.GenreId == 1)
_context.Movies.Single(m => m.Id == 1);
_context.Movies.SingleOrDefault(m => m.Id == 1);
_context.Movies.ToList();
```

## Eager Loading

```
_context.Movies.Include(m => m.Genre);
```