Entity Framework

# Context Class

The context class is the class responsible for adding, updating, L2Q (Lingq to Query), deleting entities.

# Create Operation

DbSet.**Add**

# Update Operation

When editing an entity data EF automatically detects changes and sets entity state to “Modified”

Which results in an update statement in the database when you call the SaveChanges() method.

# Delete Operation

Use the DbSet.Remove() method to delete a record in the database table.

# Read Operation

The DbSet class is derived from IQueryable. So, we can use LINQ for quierying against DbSet, which will be converted to an SQL query. EF API excutes this SQL query to the underlying database, gets the flat result set, converts it into appropriate entity objects and returns it as a query result.

# Search Operation

We can use the Find() method of DbSet to search the entity based on the primary key value.

# Entity Framework Classes

Entity Framework classes consist of:

1. Entity classes
   1. All the entity classes are interrelated with the help of navigation properties.
2. Database context class

# Lazy Loading

Whenever when we’re reading or loading data from a specific entity. Other related entities

Data are not loaded until we specifically want to access it

This is what lazy loading is.