### LAB: Entity Framework Core

#### Objective:

Achieve a deep understanding of the following topics through practical application:

* Setting up the working environment
* Creating a connection string to the database
* Creating database models
* Creating a DbContext
* Migrations and rollbacks
* Relationships between tables
* CRUD operations
* Data annotations for validation

### Instructions:

#### 1. Setting Up the Working Environment

* Create a new project in Visual Studio.
* Add the necessary Entity Framework Core packages via NuGet Package Manager.

#### 2. Creating a Connection String

* Create a new class named Connections that contains the connection string.

#### 3. Creating Database Models

* Create a new folder named Models.
* Create a your models inside the Models folder.

#### 4. Creating a DbContext

* Create a new DbContext class.(Don't name it Just DbContext )

#### 5. Migrations and Database Creation

* Add a migration and create the database.

#### 6. Rollbacks

* Create a new migration, make some changes to a model, and then rollback those changes.

#### 7. Relationships Between Tables

* Create a new model inside the Models folder and define various relationships.(1-1 ,1-M,M-M)

#### 8. CRUD Operations

* Implement create, read, update, and delete operations in the database.

#### 9. Data Annotations for Validation

* Apply data annotations to control the data.

### Tasks:

1. Implement all the steps above.
2. Ensure all migrations are performed and relationships between tables are created.
3. Add, update, and delete data and validate data annotations.