Getting Acquainted with Entity Framework Core



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Coming Up



Introducing Entity Framework Core
Working with Migrations
Safely Storing Sensitive Data
Seeding the Database



Object-Relational Mapping

Object-Relational Mapping (ORM) is a technique that lets you query and manipulate data from a database using an object-oriented paradigm



Introducing Entity Framework Core

Problem

Relational models and object models do not work very well together

Tabular database format versus an interconnected object graph

Solution

An ORM: the library that implements the object-relational mapping technique

It takes care of mapping between that tabular format and the object graph



Introducing Entity Framework Core



Entity Framework Core is a lightweight, extensible, and cross-platform version of Entity Framework

Recommended for

- New applications that don't need the full EF6 feature set
- .NET Core applications



Introducing Entity Framework Core



Supports a variety of databases, even non-relational ones

Code-first or database-first approach





Creating Entity Classes





Creating a DbContext





Working with Migrations





Safely Storing Sensitive Configuration Data





Seeding the Database with Data



Summary



Object-Relational Mapping (ORM) is a technique that lets you query and manipulate data from a database using an object-oriented paradigm

Entity Framework Core is a lightweight, extensible, and cross-platform version of Entity Framework

Use annotations on entity classes to define primary and foreign keys, required fields, ...



Summary



DbContext represents a session with the database and can be used to query and save instances of entities

Migrations allow us to provide code to change the database from one version to another

Use environment variables for safer storage of sensitive data

Seeding the database is providing it with data to start with

