What is ORM?

### ORM (Object-Relational Mapping)

ORM is a programming technique that allows you to:

* **Map C# classes** to database tables.
* Interact with data using **C# objects** instead of writing raw SQL

### Benefits of ORM:

* **Productivity**: Less boilerplate SQL code.
* **Maintainability**: Centralized data logic in C# classes.
* **Abstraction**: Developers work with objects, not SQL.

## **EF Core vs EF Framework**

| **Feature** | **EF Core** | **Entity Framework (EF6)** |
| --- | --- | --- |
| Platform | Cross-platform (Windows/Linux/macOS) | Windows-only |
| Performance | Lightweight, faster | Slower in large projects |
| LINQ, Async Support | Full support | Partial support |
| Flexibility | Highly customizable | Less flexible |
| Latest Development | Actively developed | Maintenance only |

## ****EF Core 8.0 Features****

* **JSON Column Mapping**: Store structured JSON data directly in a table column and query it via EF.
* **Compiled Models**: Reduces startup overhead by pre-compiling the model.
* **Interceptors**: Hook into lifecycle events (like logging queries or modifying commands).
* **Bulk Operations**: Better performance with batch inserts/updates.