EF Core 8.0 Handson Question and Answers

1. What is ORM?

ORM (Object-Relational Mapping) is a technique used to map classes in an object-oriented language like C# to relational database tables. It allows developers to work with data as C# objects instead of writing raw SQL.

Benefits of ORM:

- Improves productivity by reducing boilerplate SQL code

- Makes applications easier to maintain

- Abstracts database logic from application code

2. EF Core vs EF Framework

EF Core:

- Cross-platform (runs on Windows, Linux, macOS)

- Lightweight and faster

- Supports modern features like LINQ, async queries, and compiled models

- Actively developed and future-focused

EF Framework (EF6):

- Only works on Windows

- More stable and mature for legacy apps

- Heavier and less flexible

- No support for many modern .NET features

3. EF Core 8.0 Features

- JSON Column Mapping: Store and query structured JSON directly in database columns.

- Compiled Models: Improves startup performance by pre-compiling model metadata.

- Interceptors: Add custom logic during query execution, saving, etc.

- Bulk Operations Support: More efficient insert/update/delete on multiple rows.