

INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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ENTITY FRAMEWORK

Introduction to Entity Framework

- Overview of ORM (Object-Relational Mapping)
- What is Entity Framework?
- Benefits of using Entity Framework
- Versions and features

Getting Started

- Setting up the development environment
- Creating your first Entity Framework application
- Understanding DbContext and DbSet
- Configuring the connection string

Database Approaches

- Code First
 - Creating models
 - Migrations and database initialization
 - Data annotations and Fluent API
- Database First
 - Reverse engineering an existing database
 - Updating models from the database
- Model First
 - Designing a model using the designer
 - Generating the database from the model

CRUD Operations

- Creating entities
- Reading data
- Updating entities
- Deleting entities
- Change tracking

Querying Data

- LINQ queries
- Filtering, sorting, and paging
- Eager, lazy, and explicit loading
- Asynchronous operations

Relationships

- Defining relationships (one-to-many, many-to-many)
- Navigation properties
- Foreign keys
- Cascade delete and orphan delete

Advanced Topics

- Stored procedures and raw SQL
- Interceptors and logging
- Transactions and concurrency
- Performance optimization (caching, NoTracking)

Code First Migrations

- Enabling migrations
- Creating and applying migrations
- Rolling back changes
- Seed method

Entity Framework Core

- Differences between EF Core and EF6
- New features in EF Core
- Cross-platform development with EF Core
- Using EF Core with ASP.NET Core