

Entity Framework Core - Interview Sheet

Code-First, migrations, relationships, performance, and testing

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Top 10 Interview Questions

Q1. What is Entity Framework Core? Explain Code-First vs Database-First approaches.

Answer:

Q2. How do you configure a DbContext? What is the difference between OnConfiguring and using DI with AddDbContext?

Answer:

Q3. How do you define entity relationships using Fluent API vs Data Annotations? Give a @OneToMany example.

Answer:

Q4. What are EF Core migrations? How do you create, apply, and roll back a migration?

Answer:

Q5. Explain eager loading (Include), lazy loading (proxy), and explicit loading (Load) in EF Core.

Answer:

Q6. How do you execute raw SQL queries in EF Core safely using FromSqlRaw and ExecuteSqlRaw?

Answer:

Q7. What are the Repository and Unit of Work patterns and how do they layer over EF Core?

Answer:

Q8. How does EF Core handle optimistic concurrency? What is the [ConcurrencyCheck] or RowVersion attribute?

Answer:

Q9. What are compiled queries in EF Core and when do they improve performance significantly?

Answer:

Q10. How do you test EF Core code using the in-memory provider vs SQLite in-memory for integration tests?

Answer: