

Improve EF Core Performance

PERFORMANCE



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Bulk Updates

Overview

Use ExecuteUpdateAsync() for efficient, large scale updates.

```
await dbContext.Drivers
    .Where(d => d.IsActive == false)
    .ExecuteUpdateAsync(d => d.SetProperty(d => d.IsActive, true));
```



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Avoid Lazy Loading

Overview

Use explicit or eager loading to prevent unnecessary queries.

```
var driversWithAchievements = await dbContext.Drivers
    .Include(d => d.Achievements)
    .ToListAsync();
```



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Use .AsNoTracking()

Overview

Speed up read-only queries by disabling change tracking.



```
var drivers = await dbContext.Drivers
    .AsNoTracking()
    .ToListAsync();
```



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Use Compiled Queries

Overview

Compiled queries optimize performance for high-traffic apps.



```
var compiledQuery = EF.CompileAsyncQuery((MyDbContext context, int id) =>
    context.Drivers.Where(d => d.Id == id));

var driver = await compiledQuery(dbContext, driverId);
```

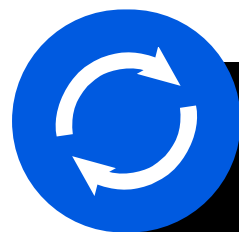


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