

Improve Entity Framework Performance



 Bulk Insert

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Context Class in Entity Framework

The context class is a most important class while working with EF 6 or EF Core. It represent a session with the underlying database using which you can perform CRUD (Create, Read, Update, Delete) operations.

The context class in Entity Framework is a class which derives from `System.Data.Entity.DbContext` [↗](#) in EF 6 and EF Core both. An instance of the context class represents Unit Of Work and Repository patterns wherein it can combine multiple changes under a single database transaction.

The context class is used to query or save data to the database. It is also used to configure domain classes, database related mappings, change tracking settings, caching, transaction etc.

The following `SchoolContext` class is an example of a context class.

```
using System.Data.Entity;

public class SchoolContext : DbContext
{
    public SchoolContext()
    {
    }

    // Entities
    public DbSet<Student> Students { get; set; }
    public DbSet<StudentAddress> StudentAddresses { get; set; }
    public DbSet<Grade> Grades { get; set; }
}
```

In the above example, the `SchoolContext` class is derived from `DbContext`, which makes it a context class. It also includes an entity set for `Student`, `StudentAddress`, and `Grade` entities (learn about it next).

Learn more about context class in the [EF 6 DbContext](#) and [EF Core DbContext](#) chapters.



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