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Execute Raw SQL Queries in Entity Framework 6

Entity Framework allows you to execute raw SQL queries for the underlying relational database.

The following methods can be used to execute raw SQL queries to the database using Entity Framework 6.x:

- > DbSet.SqlQuery()
- > DbContext.Database.SqlQuery()
- > DbContext.Database.ExecuteSqlCommand()

DbSet.SqlQuery()

Use the [DbSet.SqlQuery()] method to write raw SQL queries which return entity instances. The resulted entities will be tracked by the context, as if they were returned by the LINQ query.

The above query executes Select * from Students SQL in the database to get all students and will be converted into a list of Student entities. The column names in the SQL query must match with the properties of an entity type, otherwise, it will throw an exception.

You can specify the parameters using the object of SqlParameter, as shown below.

If you change the column name in SQL query, then it will throw an exception because it must match column names. The following example will throw an exception.

The <code>DbSet<TEntity>.SqlQuery()</code> executes the SQL query only for the table which is mapped with the specified entity (e.g. <code>DbSet<Student>.SqlQuery()</code> only returns the result from the corresponding <code>Students</code> table and not from any other table). The following will throw an exception.

```
using (var ctx = new SchoolDBEntities())
{
    //this will throw an exception
    var studentName = ctx.Students.SqlQuery("Select * from Courses").ToList();
}
```

Database.SqlQuery()

The Database class represents the underlying database and provides various methods to deal with the database. The Database.SqlQuery() method returns a value of any type.

Database.ExecuteSqlCommand()

The Database.ExecuteSqlCommnad() method is useful in executing database commands, such as the Insert, Update and Delete command.

La Download EF 6 DB-First Demo Project from Github





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