

ADO.NET

Getting Started

Connect

In repository:

```
using (SqlConnection cn = new SqlConnection(Settings.ConnectionString))*
```

In App.Config Or Web.Config:

```
<ConnectionStrings>
```

```
<add name="Northwind"
```

```
<ConnectionStrings>
```

```
→ Server
```

```
→ Database
```


```
→ Credentials
```

```
ConnectionString="Server=MS-STDN-009\SQL2014;  
UserId=sa; Password=sqlserver; Database=Northwind;"/>  
</ConnectionStrings>
```

*The using statement auto-closes the connection and reader.

Create a command with SQL query:

```
SqlCommand cmd = new SqlCommand();  
    cmd.CommandText = "select e1.EmployeeID, e1.FirstName,  
    e1.LastName, " +  
    "e1.Title, e1.BirthDate, e2.FirstName AS ManagerFirstName, " +  
    "e2.LastName AS ManagerLastName, e1.ReportsTo " +  
    "FROM Employees e1 " +  
    "LEFT JOIN Employees e2 ON e1.ReportsTo = e2.EmployeeID";  
cmd.Connection = cn;  
cn.Open(); *
```



Read from the Database!

```
using (SqlDataReader dr = cmd.ExecuteReader())
{
    while (dr.Read())
    {
        employees.Add(PopulateFromDataReader(dr)); *
    }
}
```

Loop through a data reader to print results.

*Adds the info from the database to the PopulateFromDataReader Method



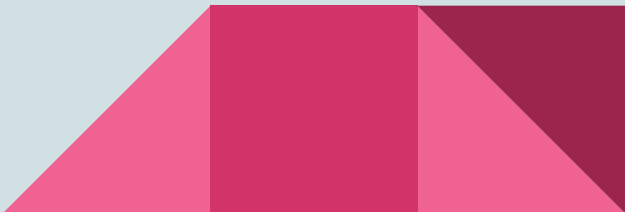
Get stuff in those properties!

```
PopulateFromDataReader(SqlDataReader dr){
    Employee employee = new Employee();
    employee.EmployeeId = (int)dr["EmployeeID"];
    employee.LastName = dr["LastName"].ToString();
    employee.FirstName = dr["FirstName"].ToString();
    employee.Title = dr["Title"].ToString();

    if (dr["BirthDate"] != DBNull.Value)
        employee.BirthDate = (DateTime)dr["BirthDate"];

    if (dr["ReportsTo"] != DBNull.Value){
        employee.ReportsTo = (int)dr["ReportsTo"];
        employee.ManagerName = string.Format("{0} {1}",
            dr["ManagerFirstName"].ToString(),
            dr["ManagerLastName"].ToString());
    }
    return employee;
}
```

Method populates
properties of the C#
classes



Remember Databases are your Friend!

*

