


# .NET 6 连接Oracle

## 安装ODT

### 1.安装ODT，注意是VS的版本

[Oracle Developer Tools for Visual Studio 2022 - Visual Studio Marketplace](#)



### Oracle Developer Tools for Visual Studio 2022

Oracle Corporation | 21,786 installs | ★★★★★ (8) | Free

Oracle Developer Tools for Visual Studio 2022 is a free VS addin that makes it easy to browse and modify Oracle schema objects and data, edit and debug PL/SQL, generate SQL deployment scripts, perform

[Download](#)

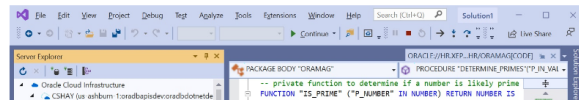
[Overview](#) [Rating & Review](#)

#### Oracle Developer Tools for Visual Studio

Oracle Developer Tools for Visual Studio 2022 is a free Visual Studio extension that makes it easy to connect to your Oracle Database and Oracle Autonomous Database, browse and modify schema objects and data, edit and debug PL/SQL, generate SQL deployment scripts, perform schema comparisons, tune SQL and .NET app performance, and more. Use Oracle Cloud Explorer to easily create an Always Free Oracle Autonomous Database instance in the cloud and begin developing your database app in minutes.

These tools are a required component to enable development with Entity Designer and Table Adapter Configuration Wizard. Use these tools with Oracle Autonomous Database and Oracle Database servers on any platform (Linux, Unix, Windows).

Note: To install the online help, please view the instructions in the [release notes](#).



#### Categories

Tools Data Programming Languages Source Control

#### Tags

cloud database dataset debuggers debugging  
entity designer entity framework odp odp.net  
oracle oracle data provider pl/sql plsql sql  
sqlquery sqltable adapter tuning

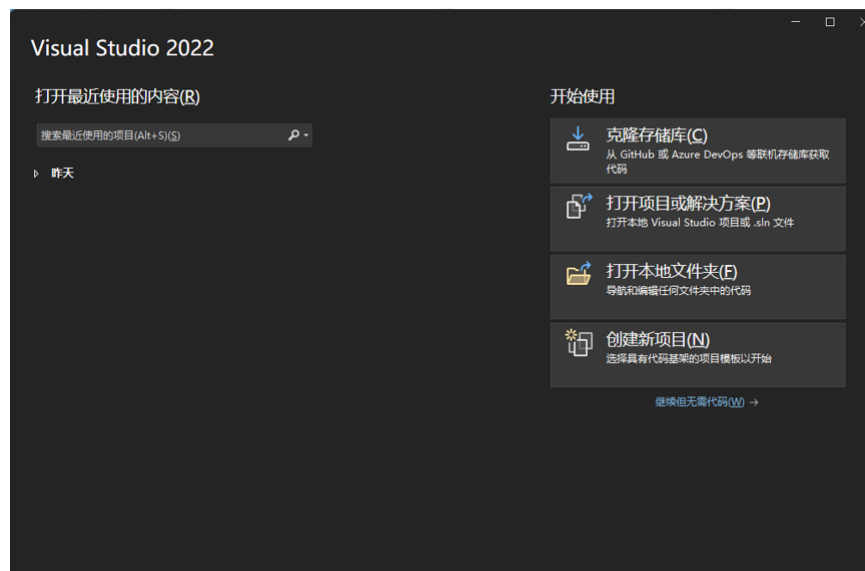
#### Works with

Visual Studio 2022 (amd64)

#### Resources

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### 2.创建一个新的项目



点击确认 (YES) 即可：



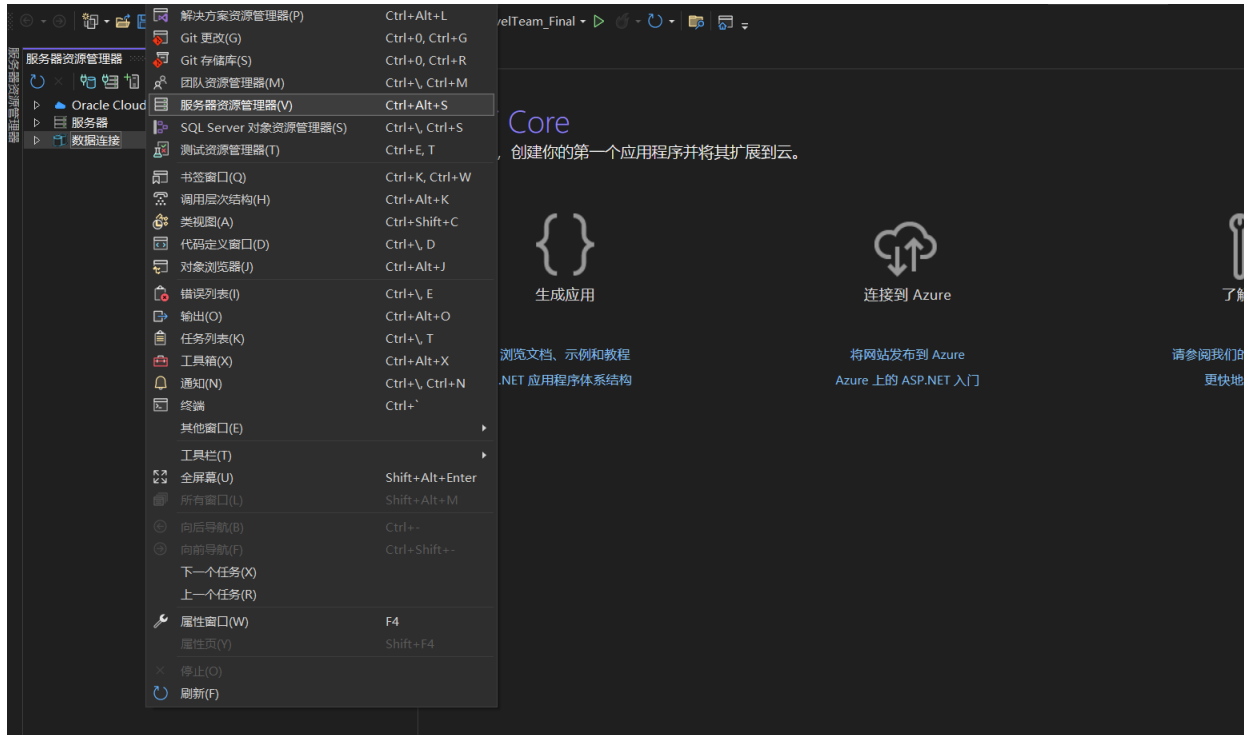
## Oracle Developer Tools for Visual Studio

Oracle Developer Tools For Visual Studio will be ready to use after initial configuration is completed. Do you want to continue?

Yes

No

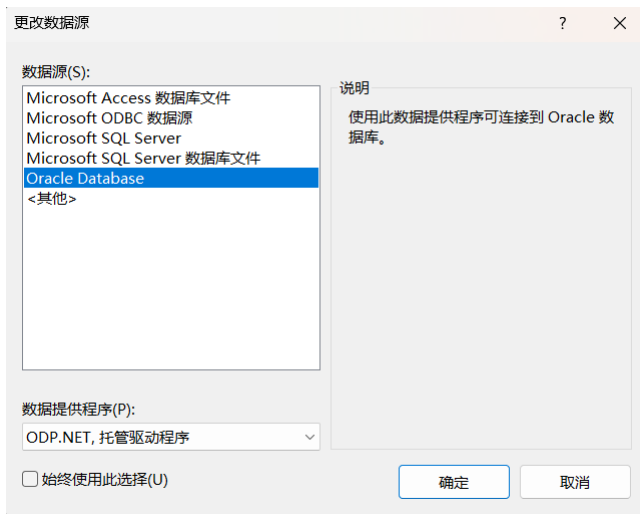
### 3.视图 (VIEW) 中打开服务器资源管理器



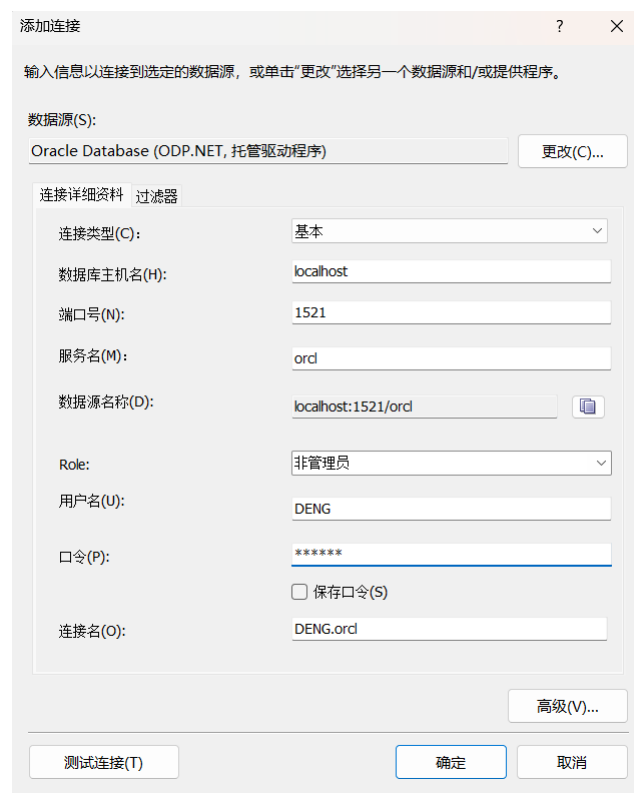
### 4.在数据连接中添加连接



### 5.数据源中——>更改, 改为Oracle



## 6.后面连接参数设置如下图



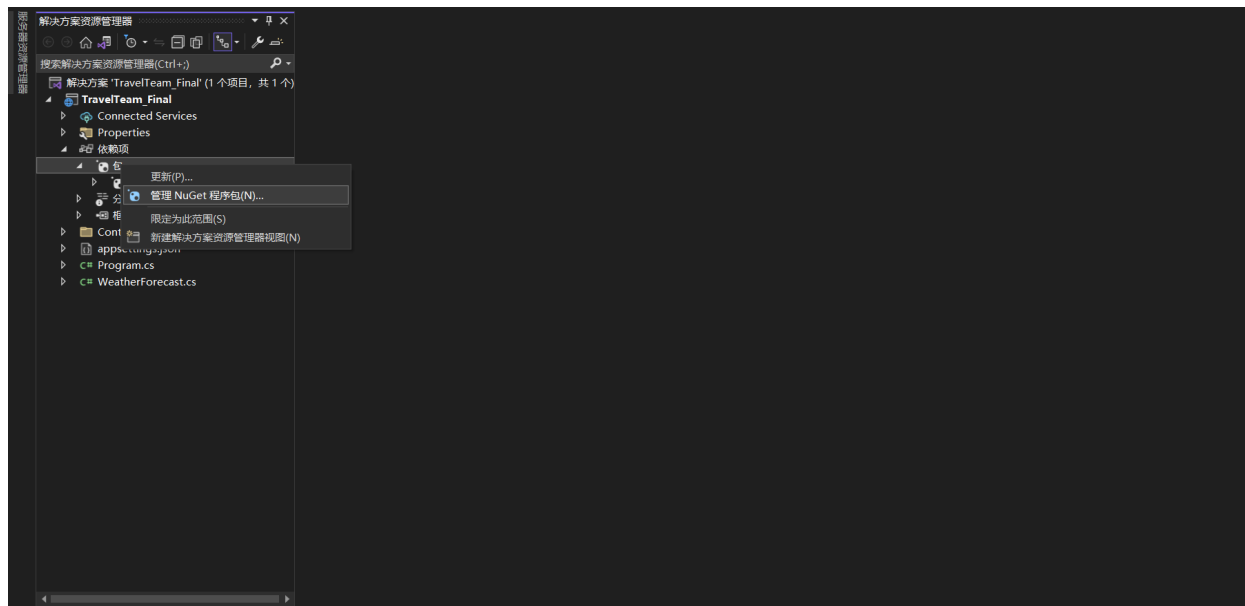
## 7.在数据库——>关系表中，就能够看到数据了



## 创建数据库物件教程

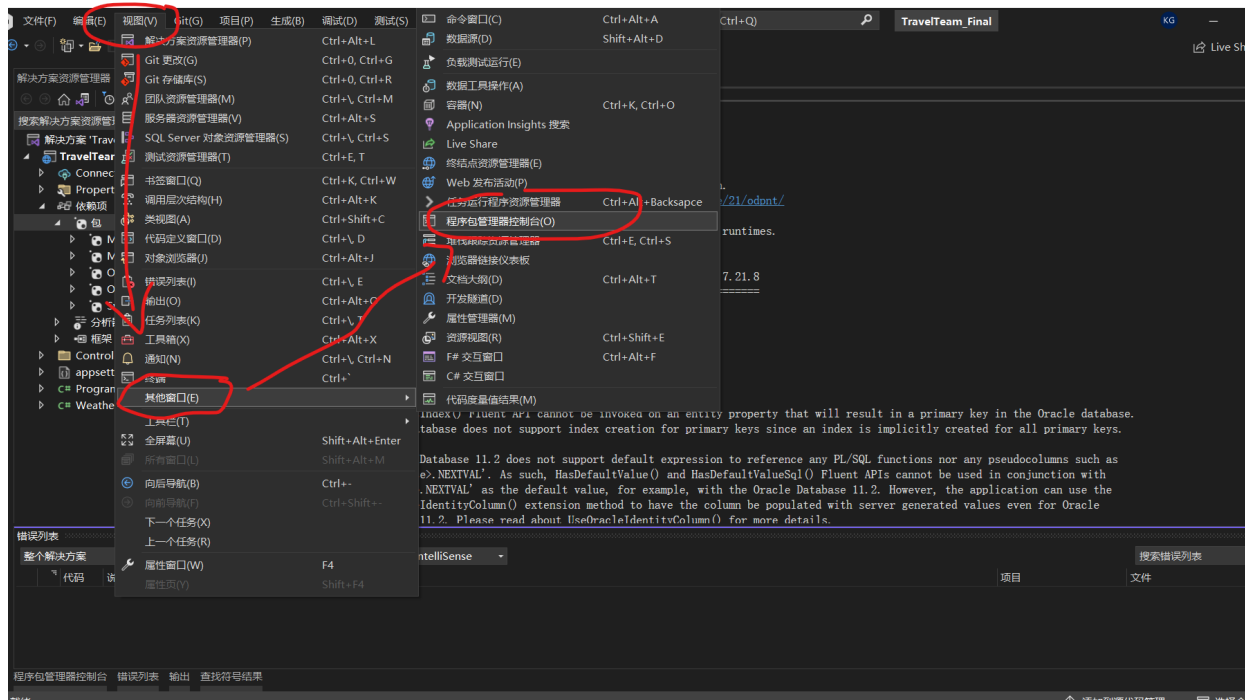
💡 **建议：** 在创建物件前在Oracle中设置好数据库的连接关系，特别是主键和外键，减少后期工作量 ⭐

### 1.在资源管理器——>依赖项中——>管理NuGet程序包，安装图对应的包

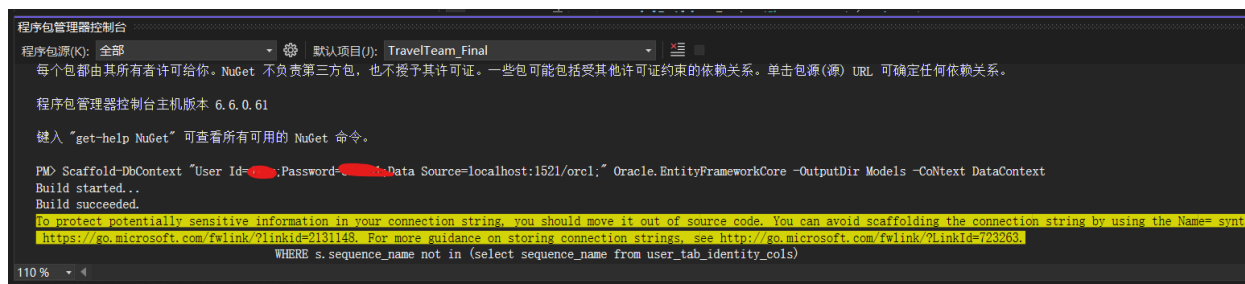


Microsoft.EntityFrameworkCore	(7.0.9)
Microsoft.EntityFrameworkCore.Tools	(7.0.9)
Oracle.EntityFrameworkCore	(7.21.9)
Oracle.ManagedDataAccess.Core	(3.21.100)
Microsoft.AspNetCore.Mvc.NewtonsoftJson	(6.0.20)

### 2.视图——>其他窗口——>程序包管理控制台



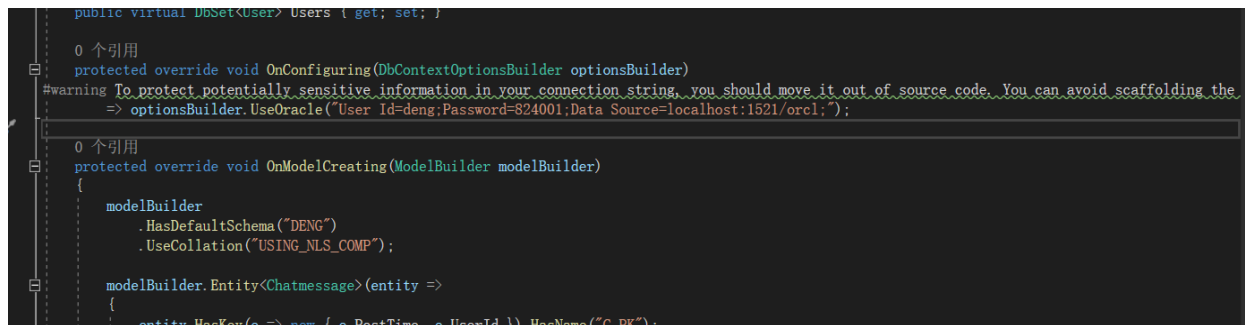
### 3.输入语句



```
Scaffold-DbContext "User Id=system;Password=xxxx;Data Source=localhost:1521/orcl;"
Oracle.EntityFrameworkCore -OutputDir Models -Context DataContext
```

Ⓜ 注意：这个ID和Password是对应自己的

### 4.DataContext中，OnConfiguring函数可以直接删掉



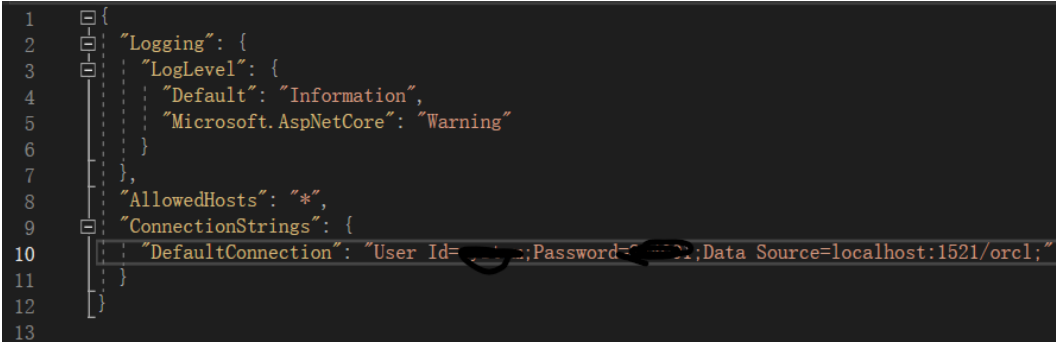
### 5.来到Program.cs中，添加语句：

Ⓜ 注意事项：下面的语句要放在 `var app = builder.Build();` 语句 之前

```
builder.Services.AddDbContext<DataContext>(options =>
options.UseOracle(builder.Configuration.GetConnectionString("DefaultConnection")));
builder.Services.AddControllers();
```

## 6. 打开appsettings.json文件，加入语句：

```
"ConnectionStrings": {
  "DefaultConnection": "User Id=你的ID;Password=你的密码;Data
Source=localhost:1521/orcl;"
}
```



```
1  {
2    "Logging": {
3      "LogLevel": {
4        "Default": "Information",
5        "Microsoft.AspNetCore": "Warning"
6      }
7    },
8    "AllowedHosts": "*",
9    "ConnectionStrings": {
10     "DefaultConnection": "User Id=你的ID;Password=你的密码;Data Source=localhost:1521/orcl;"
11   }
12 }
13
```