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Connecting to Oracle Database using IronPython



IronPython is an open-source implementation of Python programming language which is tightly integrated with the .NET Framework. IronPython can use the .NET Framework and Python libraries like wise other.NET languages can use Python script without a hassle.

Firstly, you have to set up environment for IronPython and Oracle Database.

You check my below posts to set up the environment.

[Connecting to Oracle Database using Python](#)

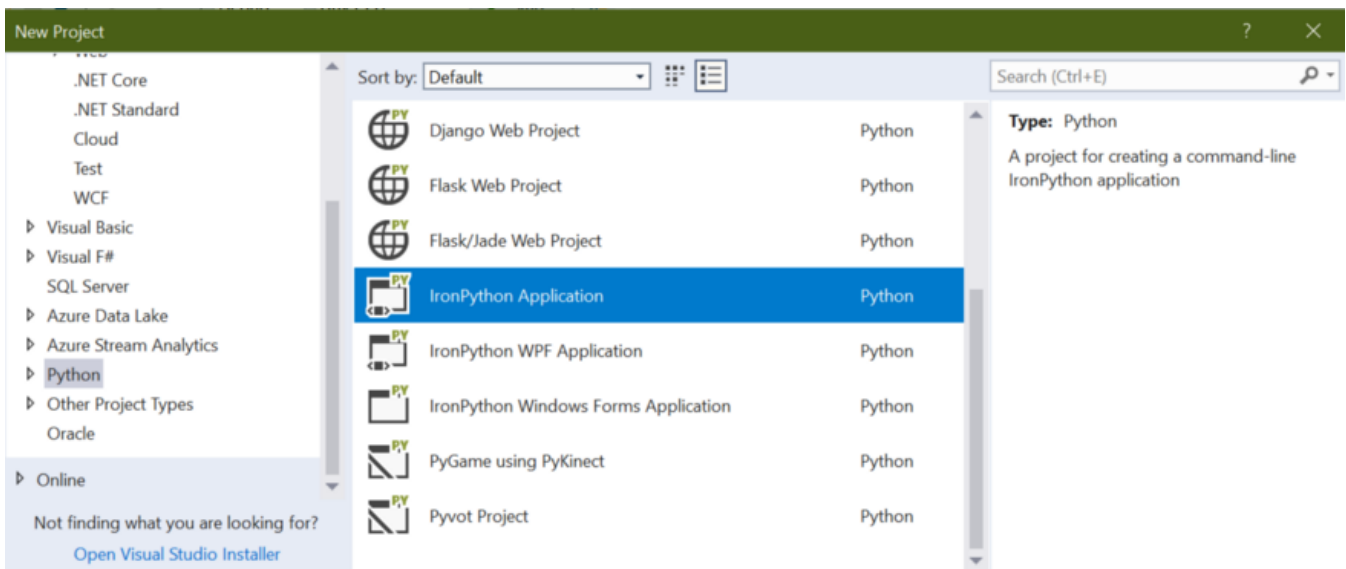



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And, make sure you have installed Oracle Developer Tools. Also, create a test database which has a sample table with some data stored.

Sample IronPython script to fetch data from Oracle database

In Visual Studio, Create a new IronPython application and write a below sample script and execute it.



```
import clr
```

```
#Reference path of Oracle Developer Tools — Oracle ManagedDataAccess
```

```
clr.AddReferenceToFileAndPath("C:\Program Files (x86)\Oracle Developer Tools for  
VS2017\odp.net\managed\common\Oracle.ManagedDataAccess.dll")
```

```
from Oracle.ManagedDataAccess.Client import OracleConnection
```

```
#Connection string
```

```
conn = OracleConnection("Data Source=//127.0.0.1:1522/databasename;USER  
Id=userid;PASSWORD=password;")
```

```
conn.Open()
```

```
cmd = conn.CreateCommand()
```

```
#Fetching data from local oracle database
```



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y reader.ReadRows.

```
while reader.Read():
    customer = {
        'id': reader.GetString(reader.GetOrdinal("customer_id")),
        'name': reader.GetString(reader.GetOrdinal("customer_name")),
        'city': reader.GetString(reader.GetOrdinal("city"))
    }
    customers.append(customer)

conn.Close()
print("----- Id ----- Name ----- City -----")
for customer in customers:
    print("%d %s %s" % (customer.id, customer.name, customer.city))
print("-----")
```

Output

To run the application:

1. From *Solution Explorer* → select the python file you want to execute.
2. Right-click and select *Start without Debugging* option.

You can see the output in a specified format in command prompt window.

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