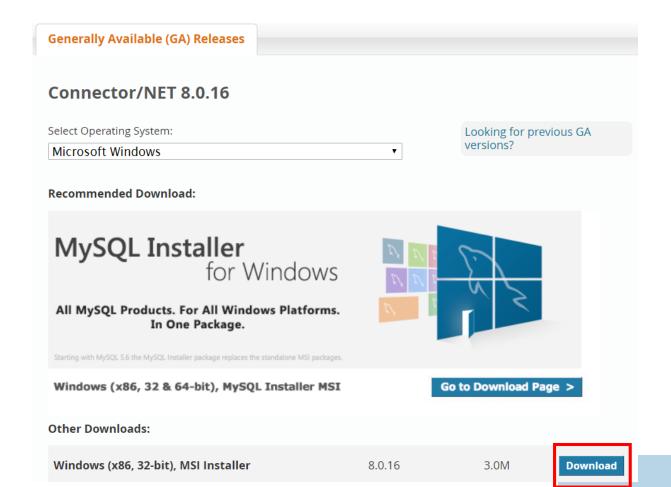
Mysql C# 연동

실습환경: Visualstudio 2017 +

MySQL 8.0

- ▶ C# 에서 MySQL 을 사용하기 위해서는 Connector 가 필요
- MySQL Connector/Net
 - http://dev.mysql.com/downloads/connector/net/



mysql-connector-net-8.0.16.msi

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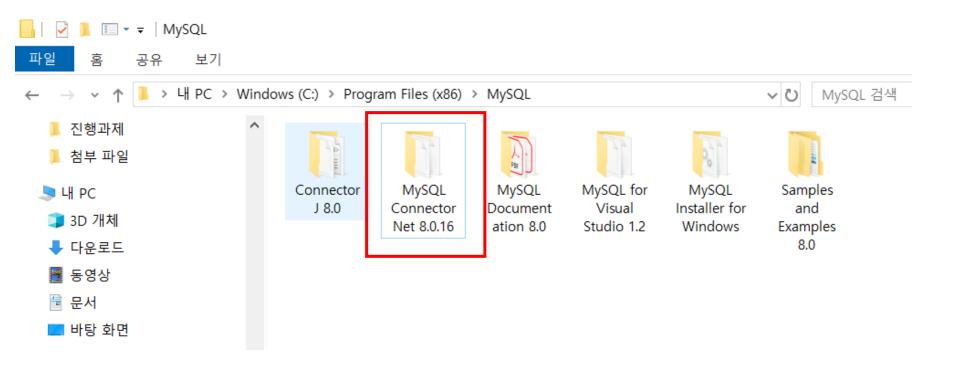
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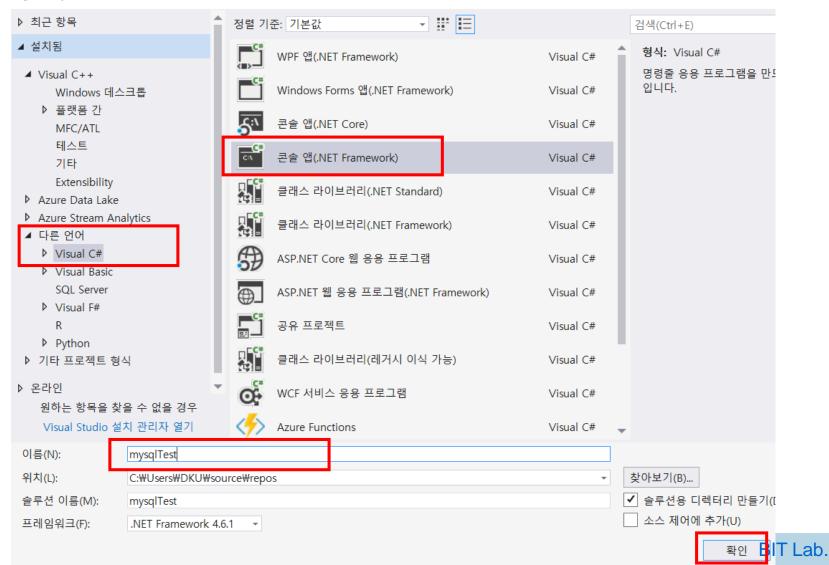




2. 프로젝트 생성

[파일]→[새로만들기]→[Project]

새 프로젝트

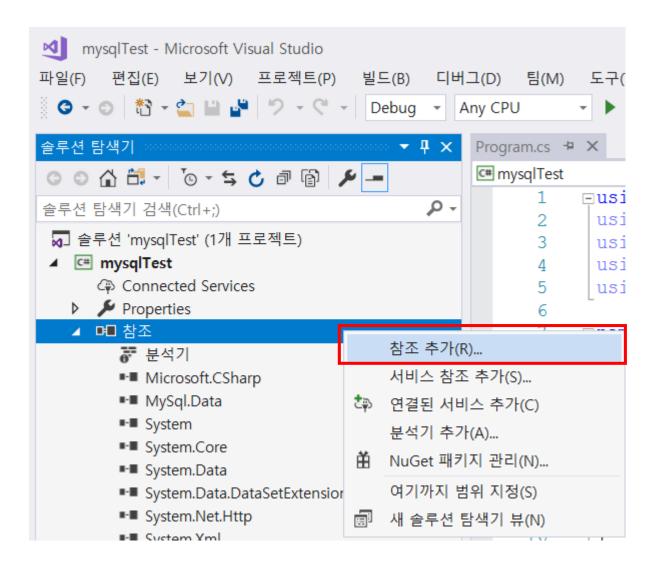


2. 프로젝트 생성

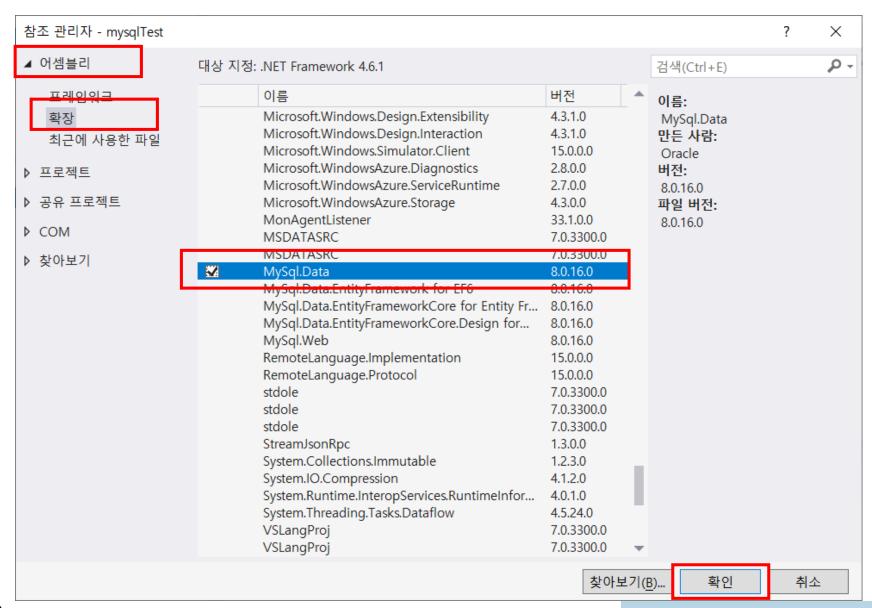
컴파일 및 실행 : <ctrl>+<F5>

```
Program.cs + X
                           ▼ 1% mysqlTest.Program
                                                       C# mysqlTest
          -using System;
           using System.Collections.Generic;
           using System.Ling;
          using System. Text;
     5
          using System. Threading. Tasks;
          namespace mysqlTest
     9
               class Program
    10
    11
                   static void Main(string[] args)
    12
                        Console.WriteLine("hello \n");
    13
    14
    15
    16
    17
100 %
```

3. Mysql dll 추가



3. Mysql dll 추가

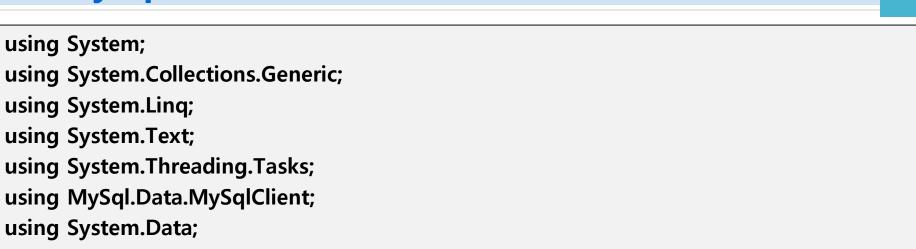


```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using MySql.Data.MySqlClient;
using System.Data;
```

```
namespace mysqlTest
     class Program
         static void Main(string[] args)
             String strConn =
               "Server=localhost; Database=my db; Uid=root; Pwd=1234;";
             MySqlConnection conn = new MySqlConnection(strConn);
             try
                 conn.Open();
                 if (conn.State == ConnectionState.Open)
                     Console.WriteLine("서버에 연결");
                     conn.Close();
             catch (Exception ex)
                 Console.WriteLine("연결 실패 {0}", ex.Message);
```

C:₩Windows₩system32₩cmd.exe

서버에 연결 계속하려면 아무 키나 누르십시오 . . .



```
try
  conn.Open();
  if (conn.State == ConnectionState.Open)
     Console.WriteLine("서버에 연결");
     conn.Close();
catch (Exception ex)
  Console.WriteLine("연결 실패 {0}", ex.Message);
```

5. emp 테이블 내용 보이기

SelectData() 메소드(함수)를 구현해 보자

```
namespace mysqlTest
  class Program
     static MySqlConnection conn; // global variable
     private static void SelectData(String mysal)
     static void Main(string[] args)
        String strConn =
             "Server=localhost;Database=my_db;Uid=root;Pwd=1234;";
        conn = new MySqlConnection(strConn);
        SelectData("1500");
```

5. emp 테이블 내용 보이기

```
□ namespace mysqlTest
     class Program
         static MySglConnection conn; // global variable
         private static void SelectData(String mysal)
             try
                 conn.Open();
                 string sql = "select empno, ename, job from emp where sal > " + mysal;
                 MySqlCommand cmd = new MySqlCommand(sql, conn);
                 MySqlDataReader rdr = cmd.ExecuteReader();
                 while (rdr.Read())
                     string col 1 = rdr[0].ToString();
                     string col 2 = rdr[1].ToString();
                     string col 3 = rdr[2].ToString();
                     Console.WriteLine(col 1 + ",\t" + col_2 + ",\t" + col_3);
                     // Console.WriteLine("empno:{0}" + "ename:{1}", col 1, col 2);
```

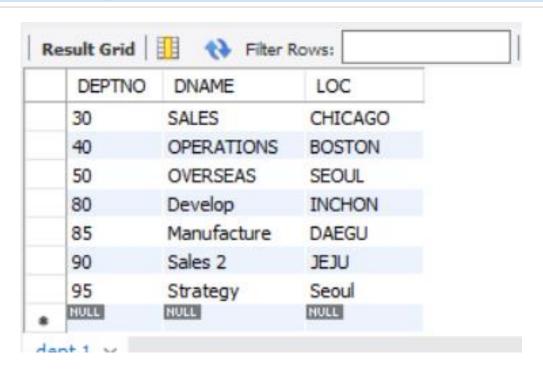
5. emp 테이블 내용 보이기

```
rdr.Close();
        conn.Close();
    catch (Exception ex)
        Console.WriteLine(ex.Message);
static void Main(string[] args)
    String strConn =
      "Server=localhost;Database=my db;Uid=root;Pwd=1234;";
   conn = new MySqlConnection(strConn);
    SelectData("1500");
```

```
namespace mysqlTest
  class Program
     static MySqlConnection conn; // global variable
     private static void inputDept(String deptno, String dname, string loc)
     static void Main(string[] args)
        String strConn =
             "Server=localhost;Database=my_db;Uid=root;Pwd=1234;";
        conn = new MySqlConnection(strConn);
        inputDept ("95", "Strategy", "Seoul");
```

```
class Program
   private static void inputDept(String deptno, String dname, string loc)
      try
          conn.Open();
          string sql = "insert into dept values " +
              "('" + deptno + "','" + dname + "','" + loc + "')";
          MySqlCommand cmd = new MySqlCommand(sql, conn);
          cmd.ExecuteNonQuery();
          Console.WriteLine("입력되었습니다");
          conn.Close();
      catch (Exception ex)
          Console.WriteLine(ex.Message);
                                       ← conn.close();
```

```
static void Main(string[] args)
{
    String strConn =
        "Server=localhost; Database=my_db; Uid=root; Pwd=1234; ";
    conn = new MySqlConnection(strConn);
    inputDept("95", "Strategy", "Seoul");
}
```



[과제]

 1. 사용자가 화면에서 사원번호를 입력하면 해당 사원의 사 원번호, 이름, 담당업무, 급여, 부서명을 출력하는 C# 프로그 램을 작성하시오. (loop 를 돌면서 계속 실행하다가 사원번호

에 0을 입력하면 종료한다)

```
C:₩Windows₩system32₩cmd.exe
      호틀 입력하세요 : 7654
empno : 7654
       MARTIN
ename :
    : SALESMAN
   : 1250.00
ldname : SALES
 H원번호를 입력하세요 : 7566
empno : 7566
ename : JONES
   : MANAGER
iob
    : 2975.00
dname : RESEARCH
사원번호를 입력하세요 : 0
계속하려면 아무 키나 누르십시오 . . .
```