

Insert

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

namespace Day31_ModelBased
{
    class Program
    {
        static void Main(string[] args)
        {
            Department ob = new Department();

            ob.DeptName = "BANK";
            ob.Location = "Bengaluru";
            string sqldepinsert = String.Format("insert into Departments(DeptName,\"Location\") values('{0}','{1}')" , ob.DeptName,ob.Location);

            Console.WriteLine("QUERY \t" +sqldepinsert);

            MyModelContainer db = new MyModelContainer();
            int res = db.Database.ExecuteSqlCommand(sqldepinsert);

            if(res==1)
                Console.WriteLine("Query inserted");
            else
                Console.WriteLine("ERROR in inserting data");
        }
    }
}
```

SELECT ALL

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

namespace Day31_ModelBased
{
    class Program
    {
        static void Main(string[] args)
        {
            Department ob = new Department();

            MyModelContainer db = new MyModelContainer();

            string sqlselectall = "select * from Departments";
            IEnumerable<Department> deptlist = db.Departments.SqlQuery(sqlselectall);

            Console.WriteLine("DEPTID\tDEPTNAME\tDEPTLOC");

            foreach(Department d in deptlist)
            {
                Console.WriteLine("{0}\t{1}\t{2}",d.DeptId,d.DeptName,d.Location);
            }
        }
    }
}
```

SQL PARAMETER

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

namespace Day31_ModelBased
{
    class Program
    {
        static void Main(string[] args)
        {
            Department ob = new Department();

            MyModelContainer db = new MyModelContainer();
            SqlParameter p1 = new SqlParameter();
            p1.ParameterName = "@id";
            p1.Value = 1;
            p1.SqlDbType = System.Data.SqlDbType.Int;

            string sql_param = "select * from Departments where DeptId=@id";
            IEnumerable<Department> depList1 = db.Departments.SqlQuery(sql_param, p1);

            Console.WriteLine("DEPTID\tDEPTNAME\tDEPTLOC");

            foreach (Department d in depList1)
            {
                Console.WriteLine("{0}\t{1}\t{2}", d.DeptId, d.DeptName, d.Location);
            }
        }
    }
}
```

```

using System;
using System.Collections.Generic;
using System.Data.SqlClient;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Day31_ModelBased
{
    class Program
    {
        static void Main(string[] args)
        {
            Department ob = new Department();

            MyModelContainer db = new MyModelContainer();

            string sqlmultiparam = "insert into Employees(Ename,Age,DeptId,Project_ProjId) values(@p0,@p1,@p2,@p3)";

            List<object> Paramlist = new List<object>();
            Paramlist.Add("Ajay");
            Paramlist.Add(33);
            Paramlist.Add(1);
            Paramlist.Add(2);
            object[] paramlis = Paramlist.ToArray();
            int result = db.Database.ExecuteSqlCommand(sqlmultiparam, paramlis);

            if (result == 1)
                Console.WriteLine("inserted");
            else
                Console.WriteLine("error");

        }
    }
}

```

```

using System;
using System.Collections.Generic;
using System.Data.SqlClient;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Day31_ModelBased
{
    class Program
    {
        static void Main(string[] args)
        {
            Department ob = new Department();

            MyModelContainer db = new MyModelContainer();

            string sqlupdate = "update Departments set deptname = @dname,\"Location\"=@loc where DeptId = 1";

            List<SqlParameter> plist = new List<SqlParameter>();
            plist.Add(new SqlParameter("@dname", "RETAIL"));
            plist.Add(new SqlParameter("@loc", "Chennai"));

            SqlParameter[] parameters = plist.ToArray();
            int r = db.Database.ExecuteSqlCommand(sqlupdate, parameters);

            if (r == 1)
                Console.WriteLine("updated");
            else
                Console.WriteLine("error");
        }
    }
}

```

NON ENTITY

MyClass

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Day31_ModelBased
{
    class MyClass
    {
        public int DeptId { get; set; }
        public string Deptname { get; set; }
    }
}
```

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

namespace Day31_ModelBased
{
    class Program
    {
        static void Main(string[] args)
        {
            Department ob = new Department();

            MyModelContainer db = new MyModelContainer();
            var deptlist2 = db.Database.SqlQuery<MyClass>("select DeptId,DeptName from Departments");

            Console.WriteLine("non entity ");
        }
    }
}
```

```
        foreach (MyClass m in deptlist2)
        {
            Console.WriteLine("{0}\t{1}\t", m.DeptId, m.Deptname);
        }
    }
}
```