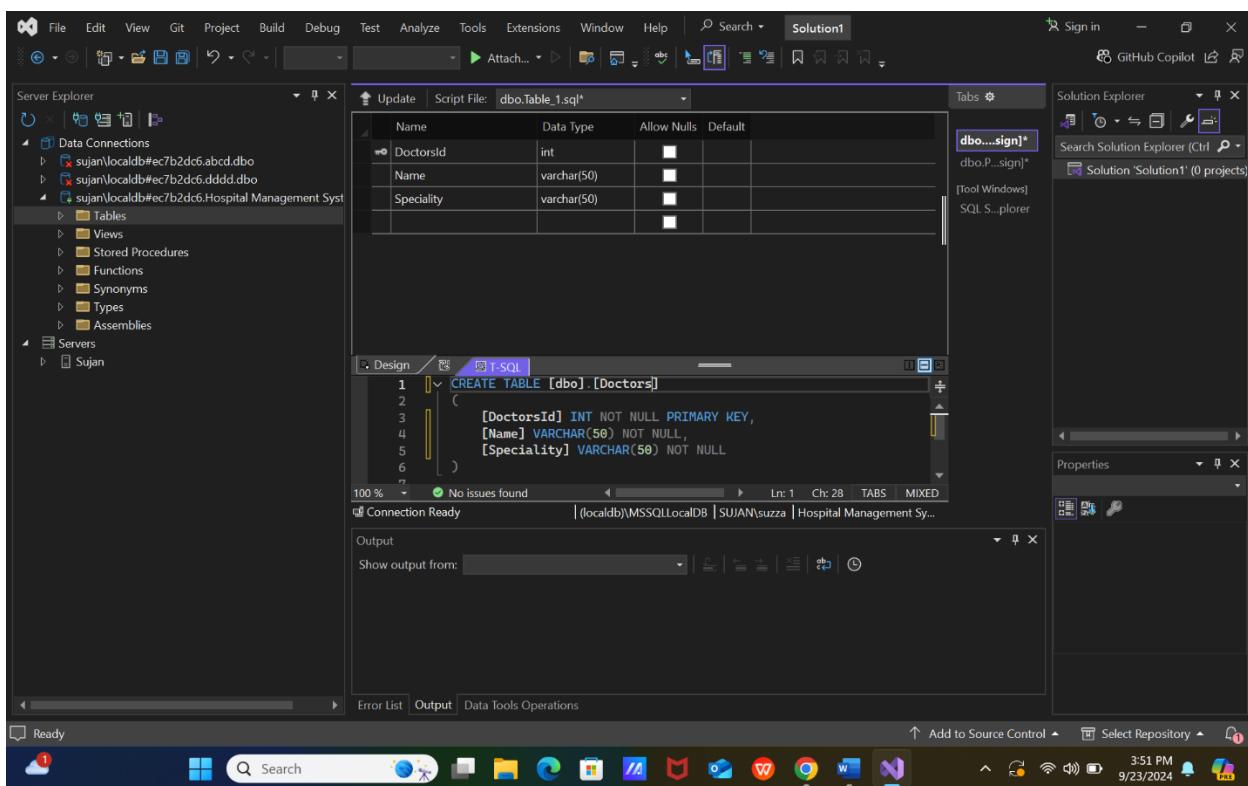
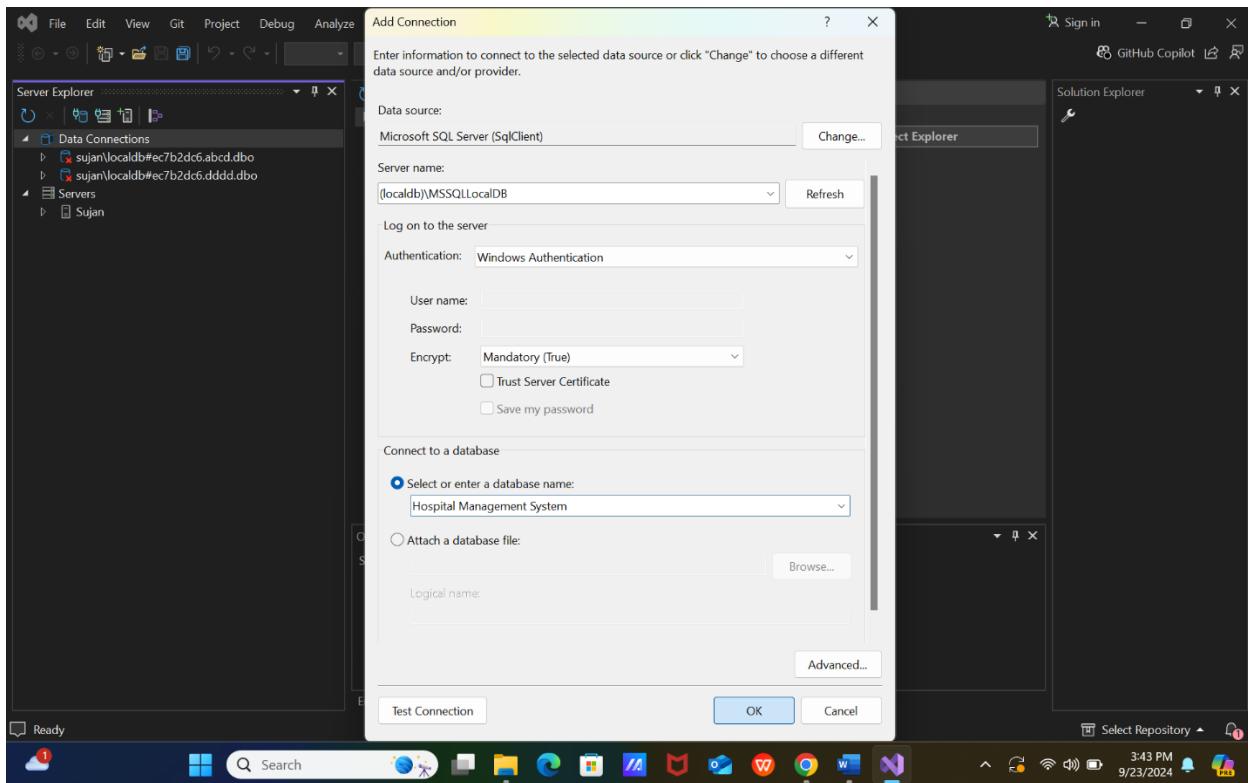
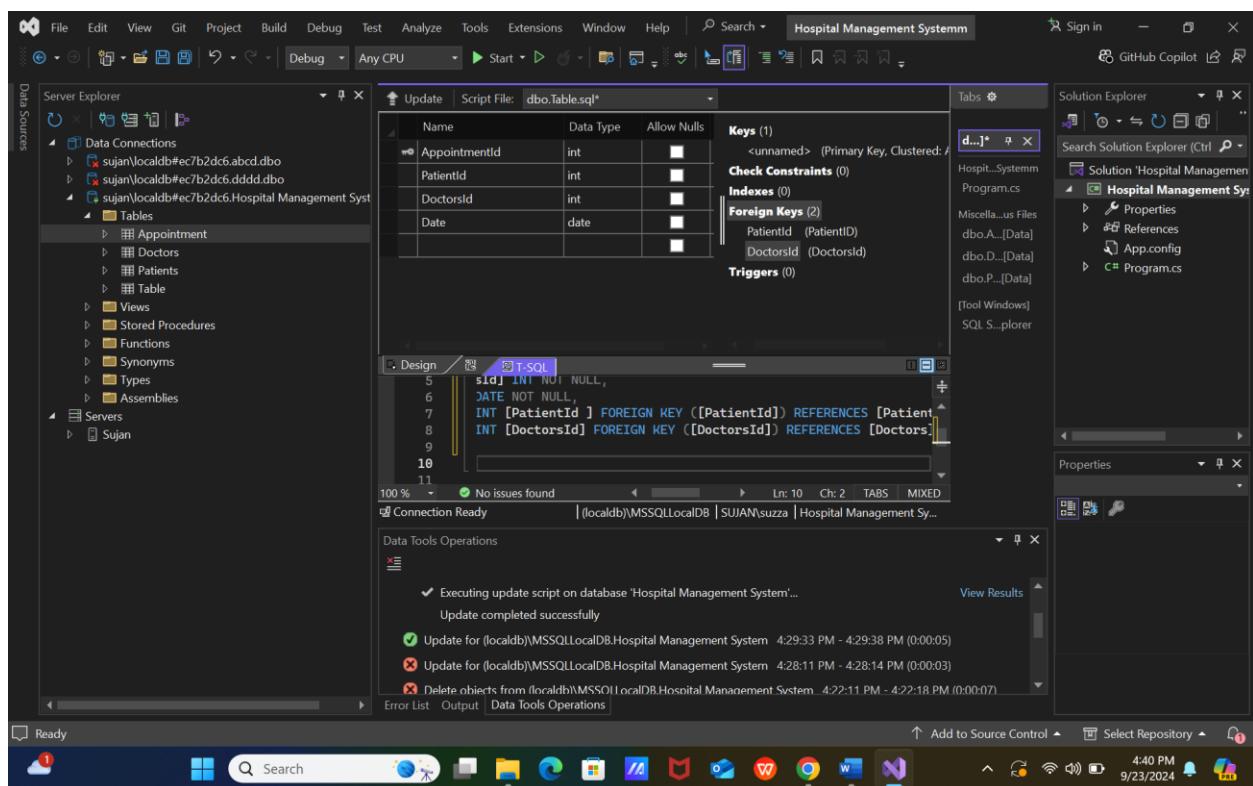
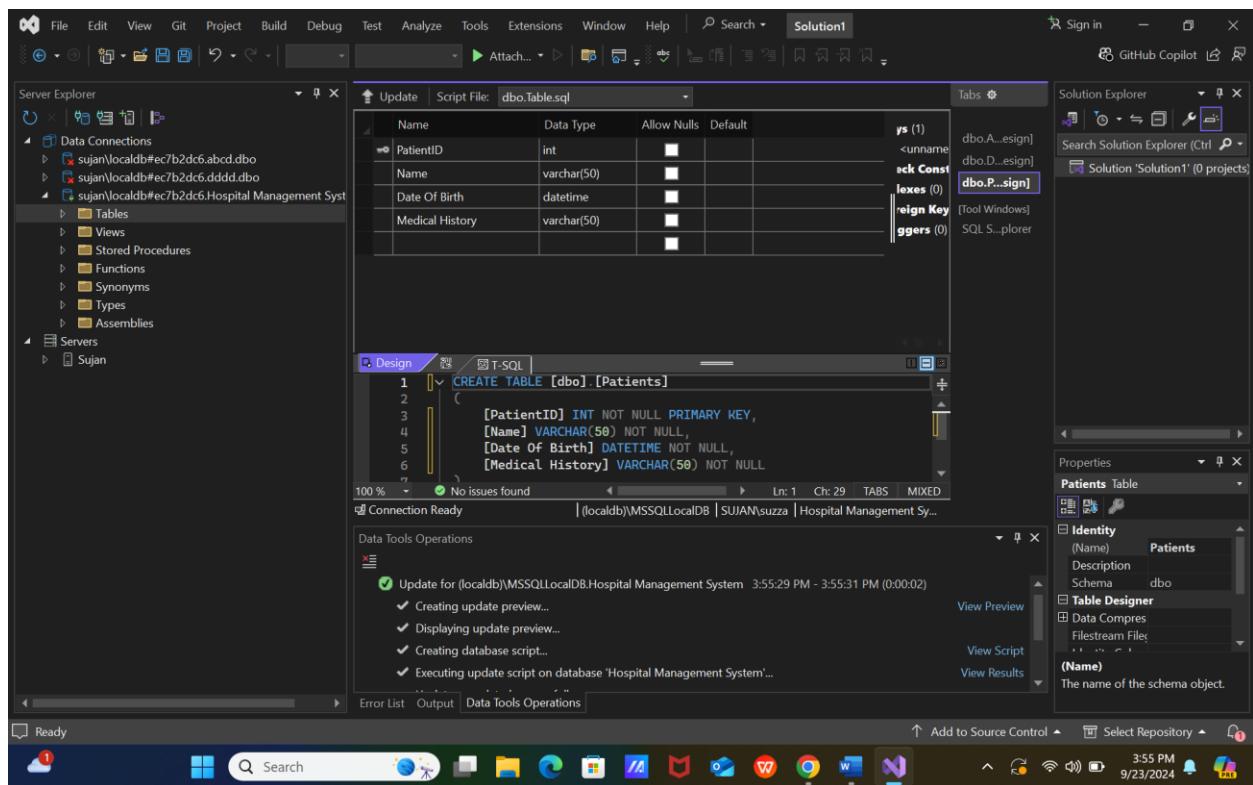


Week 2





Server Explorer

- Data Connections
- sujan\localdb\#ec7b2dc6.abcd.dbo
- sujan\localdb\#ec7b2dc6.dddd.dbo
- sujan\localdb\#ec7b2dc6.Hospital Management System
 - Tables
 - Appointment
 - Doctors
 - DoctorsId
 - Name
 - Specialty
 - Patients
 - Views
 - Stored Procedures
 - Functions
 - Synonyms
 - Types
 - Assemblies
 - Servers
 - Sujan

Max Rows: 1000

PatientID	Name	Date Of Birth	Medical History
1	Ram Rai	1/9/2050 12:00:00 AM	no
2	Jacob Smith	9/12/2055 12:00:00 AM	Asthma
3	Tom Hardy	1/5/2045 12:00:00 AM	Tumor
NULL	NULL	NULL	NULL

Tabs

dbo.A...esign]
 dbo.D...esign]
 dbo.P...esign]
 Miscella...us Files
 dbo.D...[Data]
 d...a] [Tool Windows]
 SQL S...plorer

Connection Ready | (localdb)\MSSQLLocalDB | SUJAN\suzza | Hospital Management Sy...

Data Tools Operations

- Creating database script...
- Executing update script on database 'Hospital Management System'...
- Update completed successfully
- Update for (localdb)\MSSQLLocalDB.Hospital Management System 3:56:49 PM - 3:56:51 PM (0:00:02)
- Update for (localdb)\MSSQLLocalDB.Hospital Management System 3:56:42 PM - 3:56:44 PM (0:00:02)

Error List Output Data Tools Operations

3 Rows

File Edit View Git Project Build Debug SQL Test Analyze Tools Extensions Window Help Search Solution1 GitHub Copilot

Server Explorer

- Data Connections
- sujan\localdb\#ec7b2dc6.abcd.dbo
- sujan\localdb\#ec7b2dc6.dddd.dbo
- sujan\localdb\#ec7b2dc6.Hospital Management System
 - Tables
 - Appointment
 - Doctors
 - DoctorsId
 - Name
 - Specialty
 - Patients
 - Views
 - Stored Procedures
 - Functions
 - Synonyms
 - Types
 - Assemblies
 - Servers
 - Sujan

Max Rows: 1000

DoctorsId	Name	Specialty
1111	B.K Gorgen	Surgeon
1123	Bruno G	Cardiologist
1125	Sam Fredy	Eye specialist
NULL	NULL	NULL

Tabs

dbo.A...esign]
 dbo.D...esign]
 dbo.P...esign]
 Miscella...us Files
 dbo.D...[Data]
 dbo.P...[Data]
 SQL S...plorer

Connection Ready | (localdb)\MSSQLLocalDB | SUJAN\suzza | Hospital Management Sy...

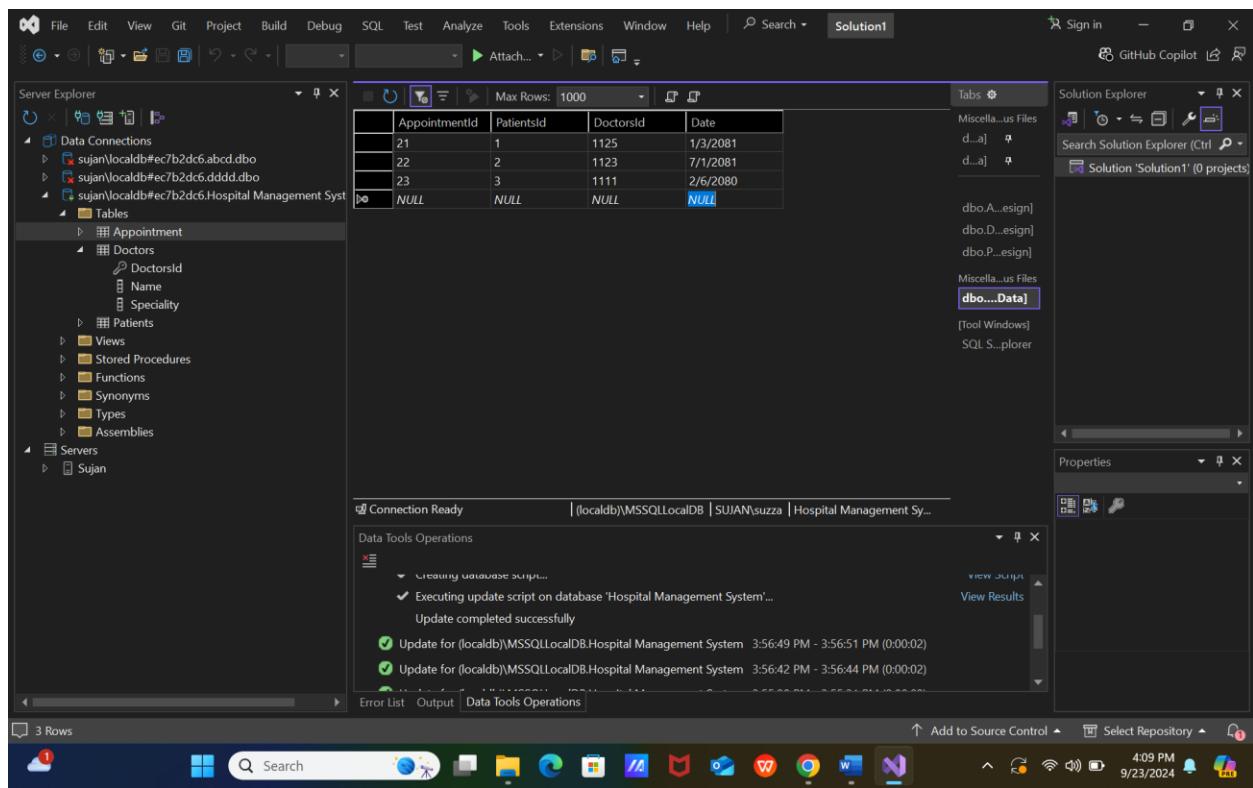
Data Tools Operations

- Creating database script...
- Executing update script on database 'Hospital Management System'...
- Update completed successfully
- Update for (localdb)\MSSQLLocalDB.Hospital Management System 3:56:49 PM - 3:56:51 PM (0:00:02)
- Update for (localdb)\MSSQLLocalDB.Hospital Management System 3:56:42 PM - 3:56:44 PM (0:00:02)

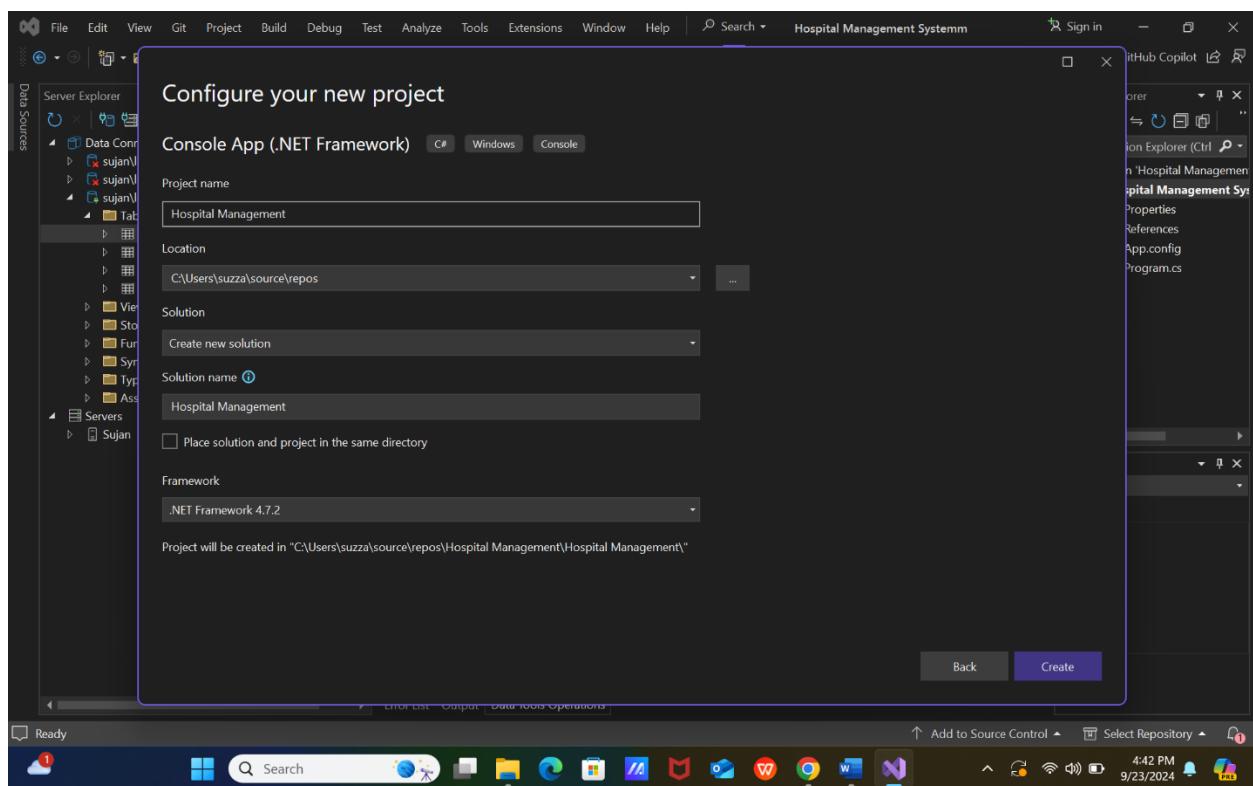
Error List Output Data Tools Operations

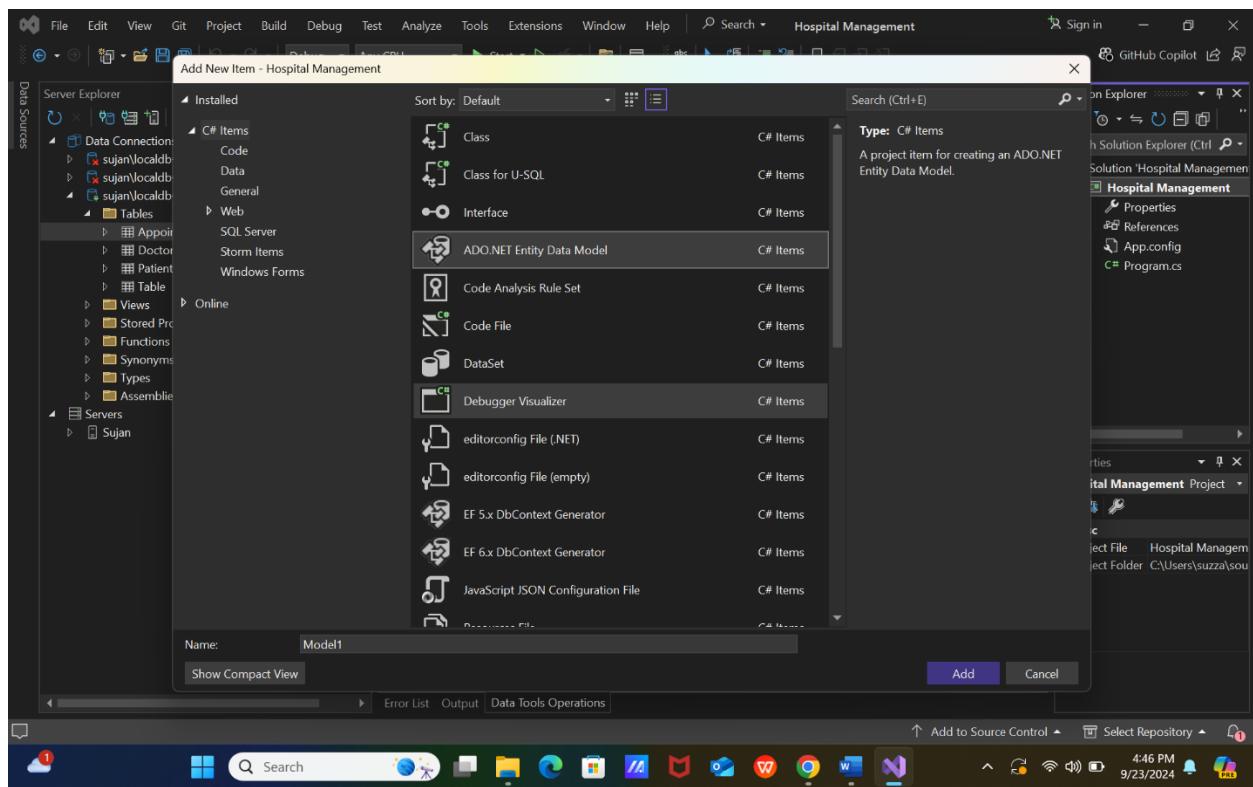
3 Rows

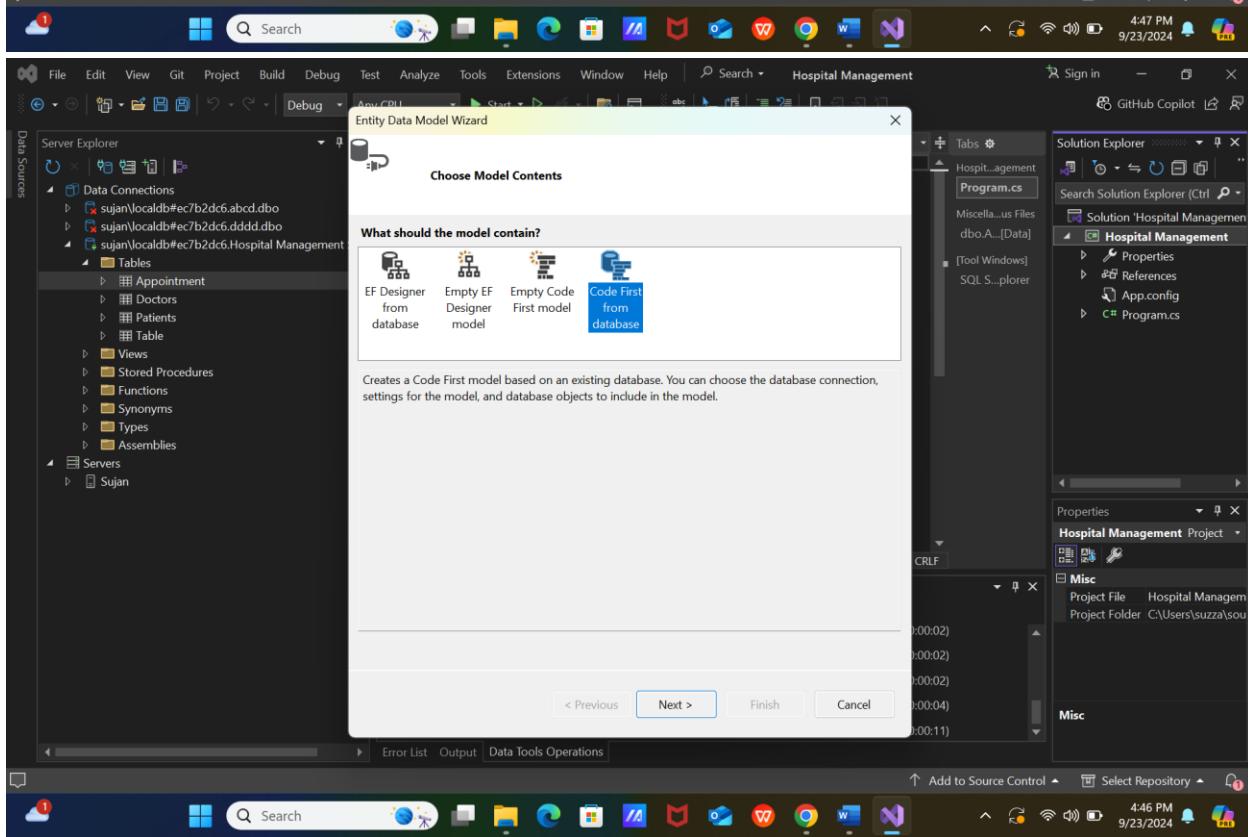
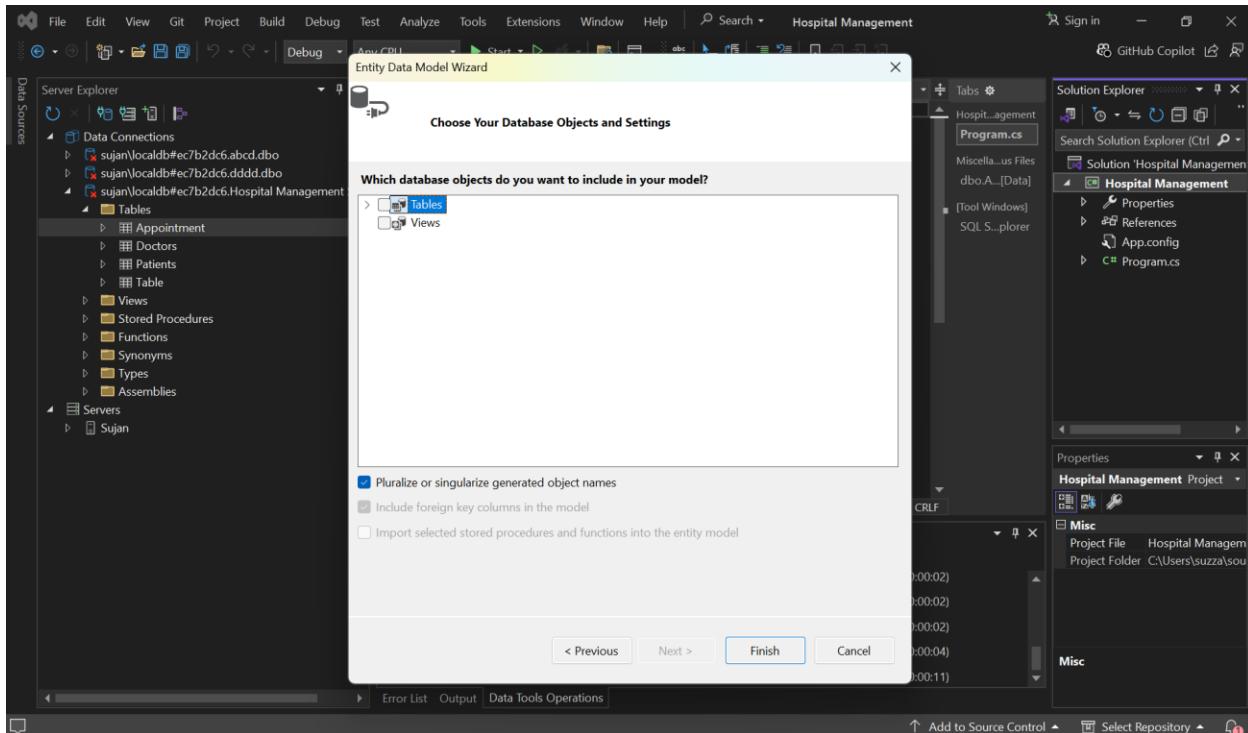
File Edit View Git Project Build Debug SQL Test Analyze Tools Extensions Window Help Search Solution1 GitHub Copilot



Week 3 Lab Screenshots







The screenshot shows the Microsoft Visual Studio IDE interface. The main focus is the code editor window titled "Hospital Management" which displays the "Model1.cs" file. The code defines a class "Model1" that inherits from "name=Model1". It contains properties for Appointment, Doctor, Patient, and Table, each returning a virtual DbSet. It also overrides the "OnModelCreating" method to set the Unicode property to false for the Doctor entity and the Speciality property for the Doctor entity.

```
9      references
10     public Model1()
11         : base("name=Model1")
12     {
13     }
14
15     public virtual DbSet<Appointment> Appointments { get; set; }
16     public virtual DbSet<Doctor> Doctors { get; set; }
17     public virtual DbSet<Patient> Patients { get; set; }
18     public virtual DbSet<Table> Tables { get; set; }
19
20     protected override void OnModelCreating(DbModelBuilder modelBuilder)
21     {
22         modelBuilder.Entity<Doctor>()
23             .Property(e => e.Name)
24             .IsUnicode(false);
25
26         modelBuilder.Entity<Doctor>()
27             .Property(e => e.Speciality);
    }
```

The Solution Explorer on the right shows the project structure for "Hospital Management" with files like Model1.cs, Program.cs, and various EntityFramework and System DLLs. The Properties window is also visible. The Output window at the bottom shows the generation process:

Show output from: Entity Data Model
Generated model file: Model1.cs.
Loading metadata from the database took 00:00:01.3916394.
Generating the model took 00:00:01.6958436.

The screenshot shows the Microsoft Visual Studio IDE interface. The top menu bar includes File, Edit, View, Git, Project, Build, Debug, Test, Analyze, Tools, Extensions, Window, Help, and a GitHub Copilot icon. The title bar says "Hospital Management". The left sidebar has a "Server Explorer" window showing database connections and the "Hospital Management System" database with its tables (Appointment, Doctors, Patients) and views. The main code editor window displays the following C# code:

```
static void Main(string[] args)
{
    Console.WriteLine("Creating Model Object");
    Model1 db = new Model1();

    Console.WriteLine("Creating patient Object and adding Patient");
    db.Patients.Add(new Patient()
    {
        PatientID = 4,
        Name = "Ram",
        Date_of_Birth = new DateTime(2001, 12, 18),
        Medical_History = "Tumor"
    });

    Console.WriteLine("Saving the record in the table Patients");
    db.SaveChanges();
    Console.WriteLine("Record inserted in the Table successfully");
}
```

The output window at the bottom shows an error message:

```
error number:202, state:1, class:145/EXCEPTIONSTRING/SQLSTATECODE/KEY/PROBLEMPROGRAM/KEYVALUES/MICROSOFT SQL SE
An unhandled exception of type 'System.Data.Entity.Infrastructure.UpdateException' occurred in EntityFramework.dll
An error occurred while updating the entries. See the inner exception for details.

'Hospital Management.exe' (CLR V4.0.30319: Hospital Management.exe): Loaded 'C:\Program Files\Microsoft Visual Studio\20
The program '[38864] Hospital Management.exe' has exited with code 4294967295 (0xffffffff).
```

This screenshot shows the same Microsoft Visual Studio environment as the first one, but the code in the editor has been modified:

```
static void Main(string[] args)
{
    PatientID = 4,
    Name = "Ram",
    Date_of_Birth = new DateTime(2001, 12, 18),
    Medical_History = "Tumor"

    Console.WriteLine("Saving the record in the table Patients");
    db.SaveChanges();
    Console.WriteLine("Record inserted in the Table successfully");

    Console.WriteLine($"PatientID {PatientID} Patient_name {Name} DOB {Date_of_Birth} Medi {Medical_History}");

    foreach (var item in db.Patients.ToList())
    {
        Console.WriteLine($"{item.PatientID} {item.Name} {item.Date_of_Birth} {item.Medical_History}");
    }

    Console.ReadLine();
}
```

The output window still shows the same error message as the first screenshot.

The screenshot shows the Visual Studio IDE interface. The main window displays the 'Output' tab, which contains the following log entries:

```
Creating Model Object
Creating patient Object and adding Patient_info
Saving the record in the table Patients
Record inserted in the Table successfully
PatientID Patient_name DOB Medical_History
1 Ram Rai 1/9/2050 12:00:00 AM no
2 Jacob Smith 9/12/2055 12:00:00 AM Asthama
3 Tom Hardy 1/5/2045 12:00:00 AM Tumor
4 Sujan 12/18/2001 12:00:00 AM Tumor
5 Ram 12/18/2001 12:00:00 AM Tumor
6 Ram 12/18/2001 12:00:00 AM Tumor
```

The Solution Explorer, Task List, and Error List windows are visible on the right side of the interface.

