

AssignmentDFSW1102

Entity Framework

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Source Code:

<https://github.com/BKarthik1/BKarthik1.git>

Question

Column Name	Data types
ST_ID	bigint
FIRSTNAME	String
LASTNAME	String
Address	String
DOB	Date
STAFF_INCHARGE_ID	bigint

Note for Implementation:

1. Use Entity Framework as Data Access mechanism.
2. Use Data transfer objects to accept the input data and return the result from the API methods

```
using System.ComponentModel.DataAnnotations;
```

```
namespace StaffDemo.Models
```

```
{
```

```
    public class Staff
```

```
    {
```

```
        [Key]
```

```

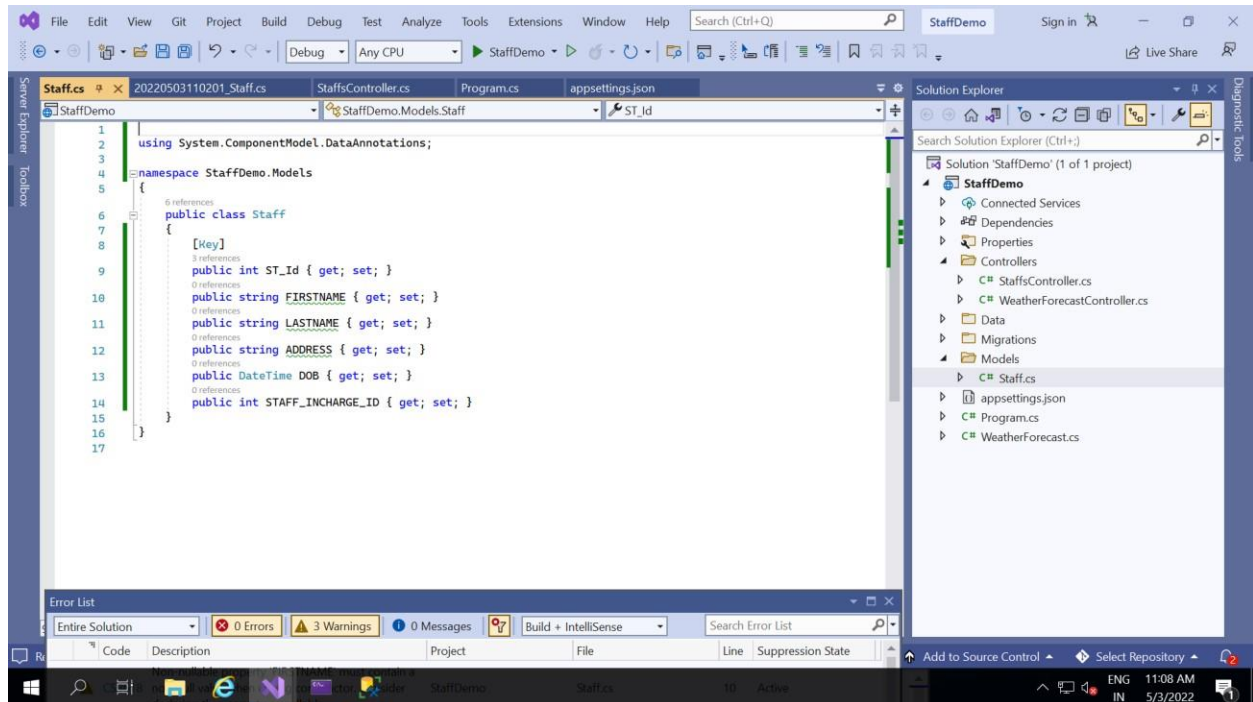
        public int ST_Id { get; set; }
    public string FIRSTNAME { get; set; }
    }    public string LASTNAME {
get; set; }    public string
ADDRESS { get; set; }    public
DateTime DOB { get; set; }

        public int STAFF_INCHARGE_ID { get; set; }

    }

}

```



```

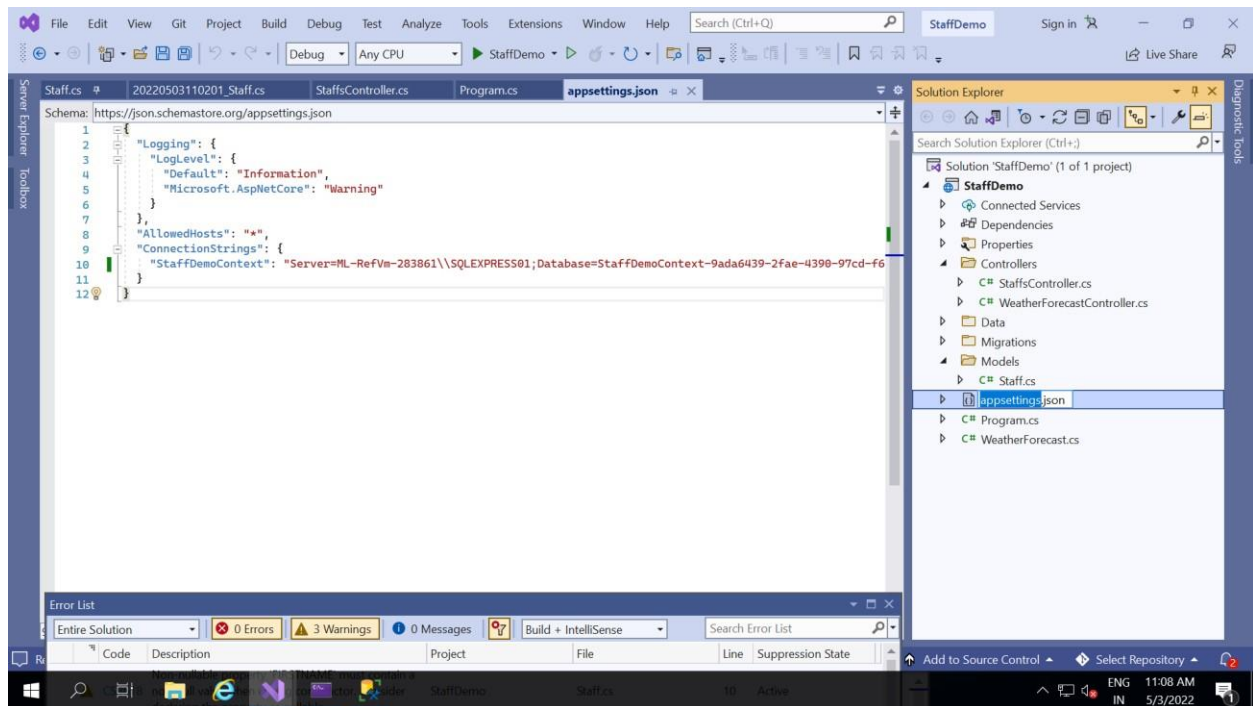
{
    "Logging": {

```

```

"LogLevel": {
  "Default": "Information",
  "Microsoft.AspNetCore": "Warning"
},
"AllowedHosts": "*",
"ConnectionStrings": {
  "StaffDemoContext": "Server=ML-RefVm-283861\\SQLEXPRESS01;Database=StaffDemoContext-
;Trusted_Connection=True;MultipleActiveResultSets=true"
}

```



```

using System;
using
System.Collections.Generic;
using System.Linq; using
System.Threading.Tasks; using
Microsoft.EntityFrameworkCore;
using StaffDemo.Models;

```

namespace StaffDemo.Data

{

public class StaffDemoContext : DbContext

{

public StaffDemoContext (DbContextOptions<StaffDemoContext> options)

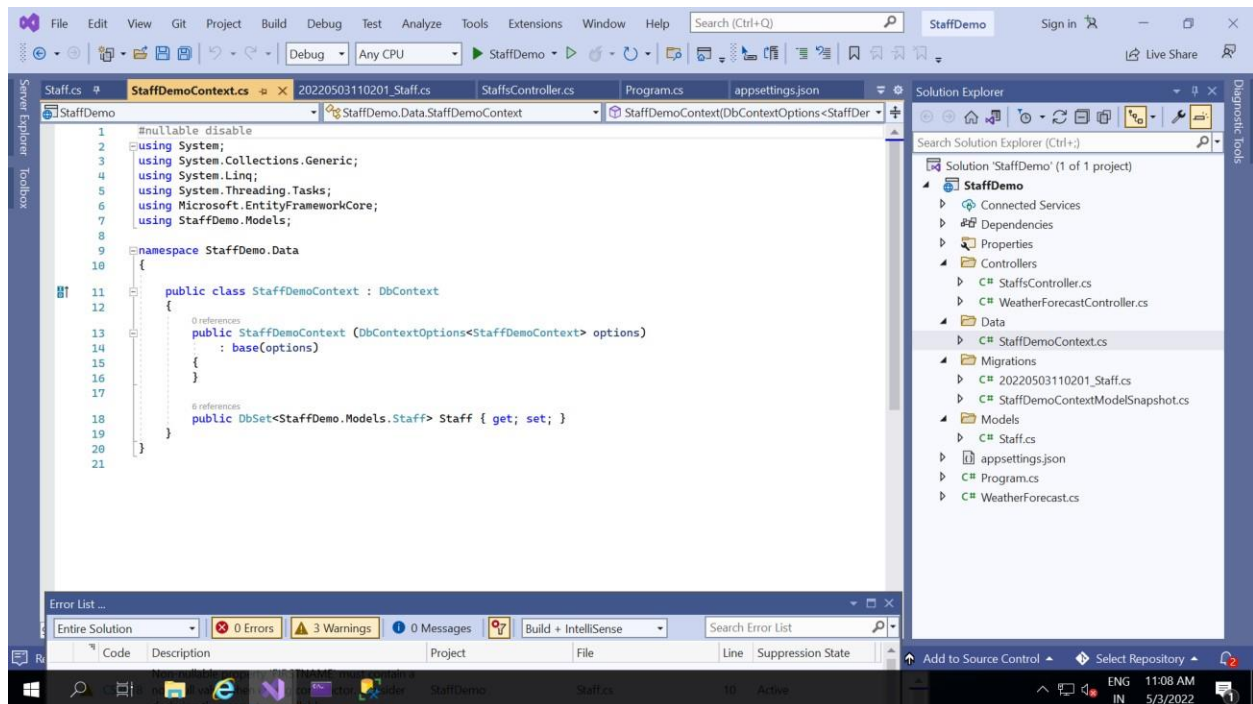
: base(options)

{

}

public DbSet<StaffDemo.Models.Staff> Staff { get; set; }

}}



using System;

using Microsoft.EntityFrameworkCore.Migrations;

#nullable disable

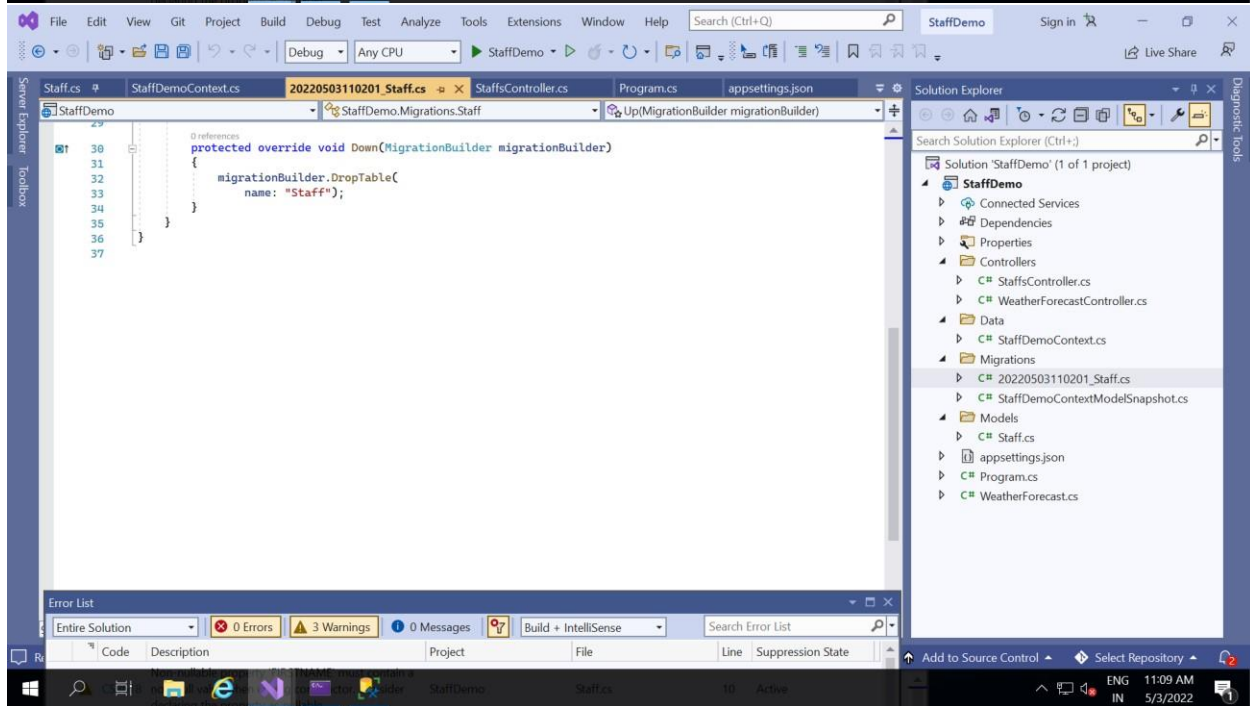
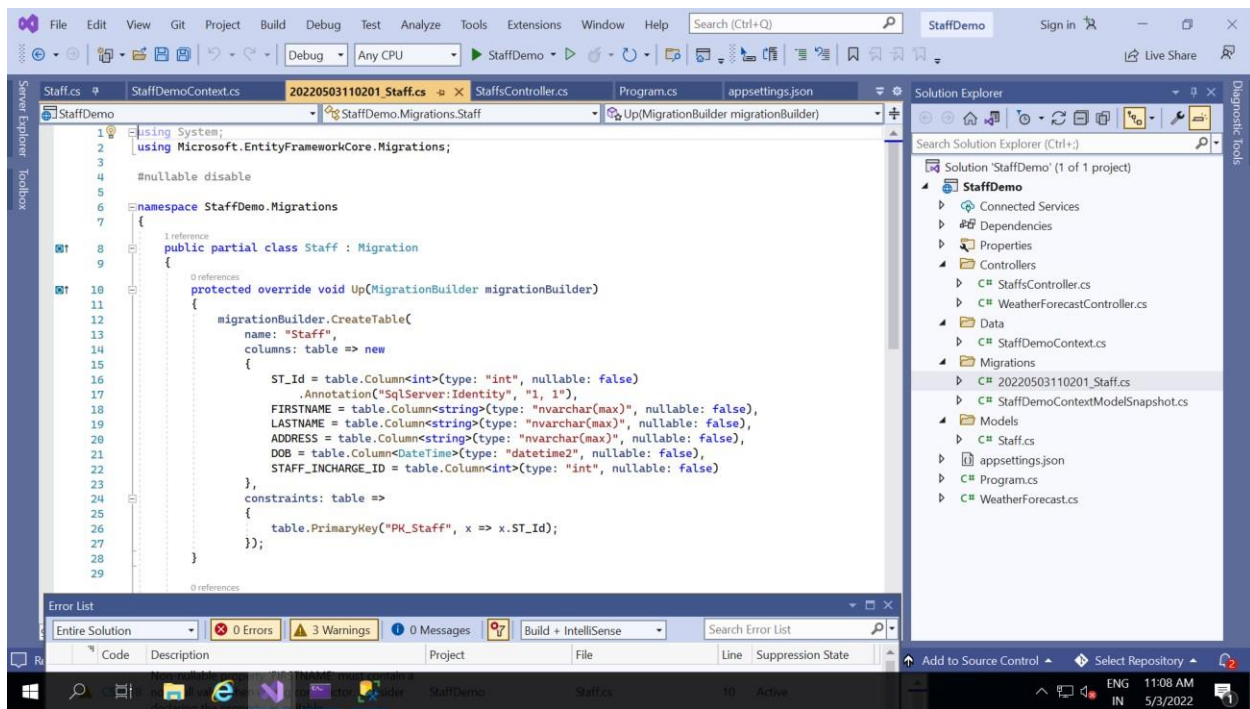
namespace StaffDemo.Migrations

```

{
    public partial class Staff : Migration
    {
        protected override void Up(MigrationBuilder migrationBuilder)
        {
            migrationBuilder.CreateTable(
                name: "Staff",
                columns: table => new
                {
                    ST_Id = table.Column<int>(type: "int", nullable: false)
                        .Annotation("SqlServer:Identity", "1, 1"),
                    FIRSTNAME = table.Column<string>(type: "nvarchar(max)", nullable: false),
                    LASTNAME = table.Column<string>(type: "nvarchar(max)", nullable: false),
                    ADDRESS = table.Column<string>(type: "nvarchar(max)", nullable: false),
                    DOB = table.Column<DateTime>(type: "datetime2", nullable: false),
                    STAFF_INCHARGE_ID = table.Column<int>(type: "int", nullable: false)
                },
                constraints: table =>
                {
                    table.PrimaryKey("PK_Staff", x => x.ST_Id);
                });
        }

        protected override void Down(MigrationBuilder migrationBuilder)
        {
            migrationBuilder.DropTable(
                name: "Staff");
        }
    }
}

```



ML-RefVm-283861\SQLEXPRESS01.StaffDemoContext-9ada6439-2fae-4390-97cd-f621fe58c65 - dbo.Staff - Microsoft SQL Server Management Studio

File Edit View Project Query Designer Tools Window Help

Object Explorer

- Connect
- DataBase
- DB
- SemTable
- n_Table
- n_Table
- S!
- ff
- ffDemoContext-9ada6439-2fae-4390-97cd
- Database Diagrams
- Tables
- System Tables
- FileTables
- External Tables
- Graph Tables
- dbo_EFMigrationsHistory
- dbo.Staff
- Columns
 - ST_Id (PK, int, not null)
 - FIRSTNAME (nvarchar(max), not null)
 - LASTNAME (nvarchar(max), not null)
 - ADDRESS (nvarchar(max), not null)
 - DOB (datetime2(7), not null)
 - STAFF_INCHARGE_ID (int, not null)
- Keys

ML-RefVm-283861\S_58c65 - dbo.Staff

ST_Id	FIRSTNA...	LASTNA...	ADDRESS	DOB	STAFF_L...
1	Niranjana	raju	baswesh...	2000-01-...	101
2	puttaraju	swamy	RRNagar	1998-09-...	102
NULL	NULL	NULL	NULL	NULL	NULL

Ready

Swagger UI

localhost:5158/swagger/index.html

Google Chrome isn't your default browser Set as default

StaffDemo 1.0 OAS3

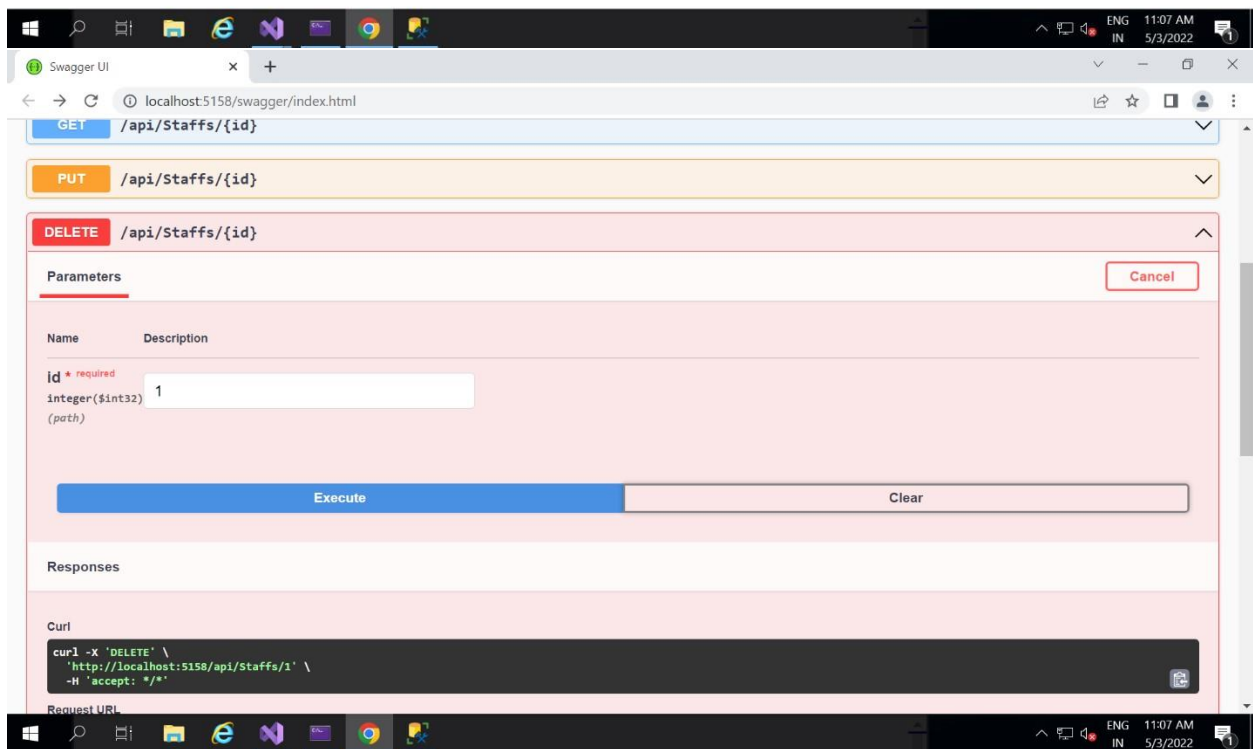
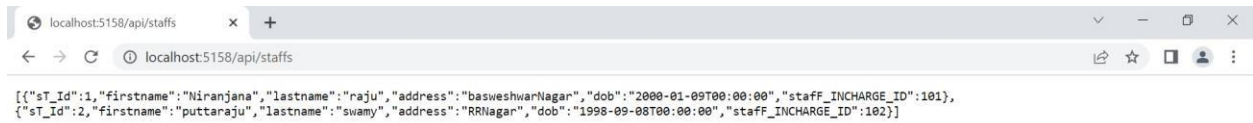
<http://localhost:5158/swagger/v1/swagger.json>

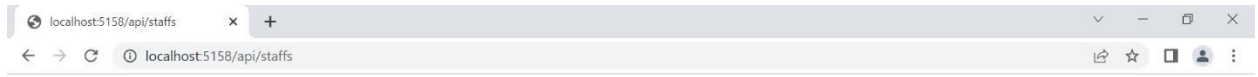
Staffs

- GET /api/Staffs
- POST /api/Staffs
- GET /api/Staffs/{id}
- PUT /api/Staffs/{id}
- DELETE /api/Staffs/{id}

WeatherForecast

- GET /WeatherForecast





```
[{"sT_Id":2,"firstname":"puttaraju","lastname":"swamy","address":"RRNagar","dob":"1998-09-08T00:00:00","staff_INCHARGE_ID":102}]
```

