

Assessment : 4

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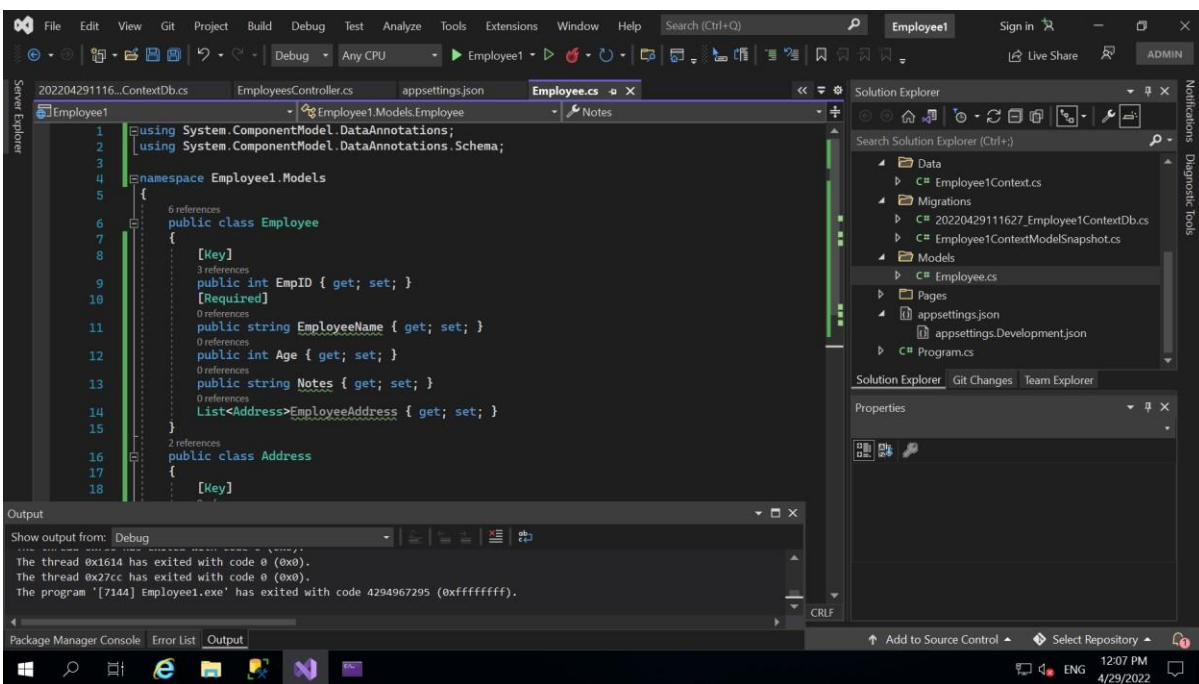
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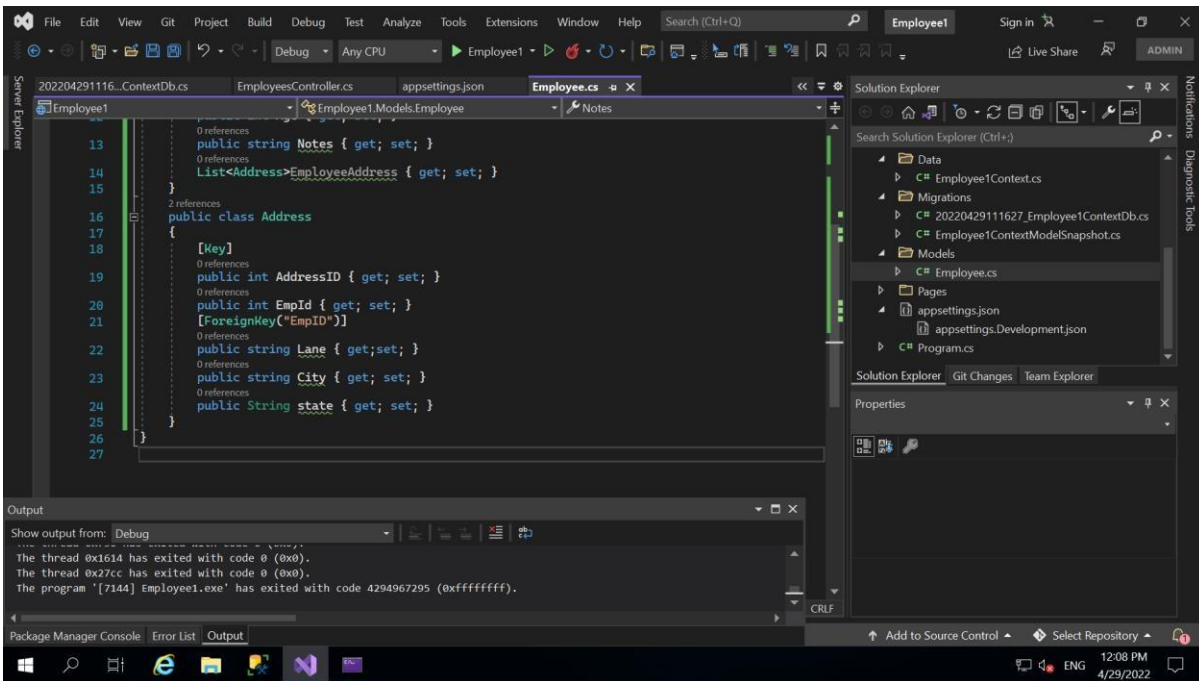
```
using System.ComponentModel.DataAnnotations;
```

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

```
namespace Employee1.Models
{
    public class Employee
    {
        [Key]
        public int EmpID { get; set; }
        [Required]
        public string EmployeeName { get; set; }
        public int Age { get; set; }    public string Notes { get; set; }
        List<Address>EmployeeAddress { get; set; }
    }

    public class Address
    {
        [Key]
        public int AddressID { get; set; }    public int EmpID {
get; set; }    [ForeignKey("EmpID")]    public string Lane
{ get; set; }    public string City { get; set; }    public String
state { get; set; }
    }
}
```





2.CREATING CONTROLLER

CODE FOR CONTROLLER

```
#nullable disable using System;
using System.Collections.Generic; using
System.Linq; using System.Threading.Tasks; using
Microsoft.AspNetCore.Http; using
Microsoft.AspNetCore.Mvc; using
Microsoft.EntityFrameworkCore; using
Employee1.Data; using Employee1.Models;

namespace Employee1.Controller
{
    [Route("api/[controller]")]
    [ApiController]
    public class EmployeesController : ControllerBase
    {
        private readonly Employee1Context _context;

        public EmployeesController(Employee1Context context)
        {
            _context = context;
        }
    }
}
```

```

// GET: api/Employees
[HttpGet]
public async Task<ActionResult<IEnumerable<Employee>>> GetEmployee()
{
    return await _context.Employee.ToListAsync();
}

// GET: api/Employees/5 [HttpGet("{id}")]
public async Task<ActionResult<Employee>> GetEmployee(int id)
{
    var employee = await _context.Employee.FindAsync(id);

    if (employee == null)
    {
        return NotFound();
    }

    return employee;
}

// PUT: api/Employees/5
// To protect from overposting attacks, see
https://go.microsoft.com/fwlink/?linkid=2123754
[HttpPut("{id}")]
public async Task<ActionResult> PutEmployee(int id, Employee employee)
{
    if (id != employee.EmpID)
    {
        return BadRequest();
    }

    _context.Entry(employee).State = EntityState.Modified;

    try
    {
        await _context.SaveChangesAsync();
    }
    catch (DbUpdateConcurrencyException)
    {
        if (!EmployeeExists(id))
        {
            return NotFound();
        }
        else
        {
            throw;
        }
    }

    return NoContent();
}

// POST: api/Employees

```

```

// To protect from overposting attacks, see
https://go.microsoft.com/fwlink/?linkid=2123754
[HttpPost]
public async Task<ActionResult<Employee>> PostEmployee(Employee employee) {
    _context.Employee.Add(employee);    await
    _context.SaveChangesAsync();

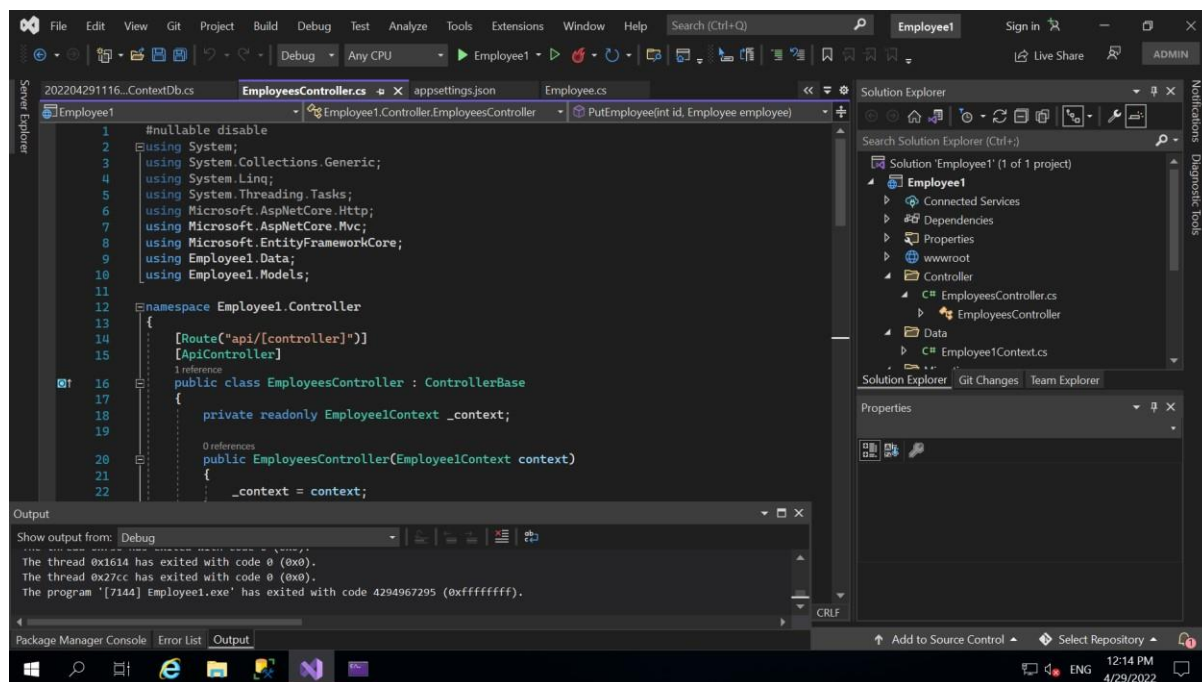
    return CreatedAtAction("GetEmployee", new { id = employee.EmpID },
employee);
}

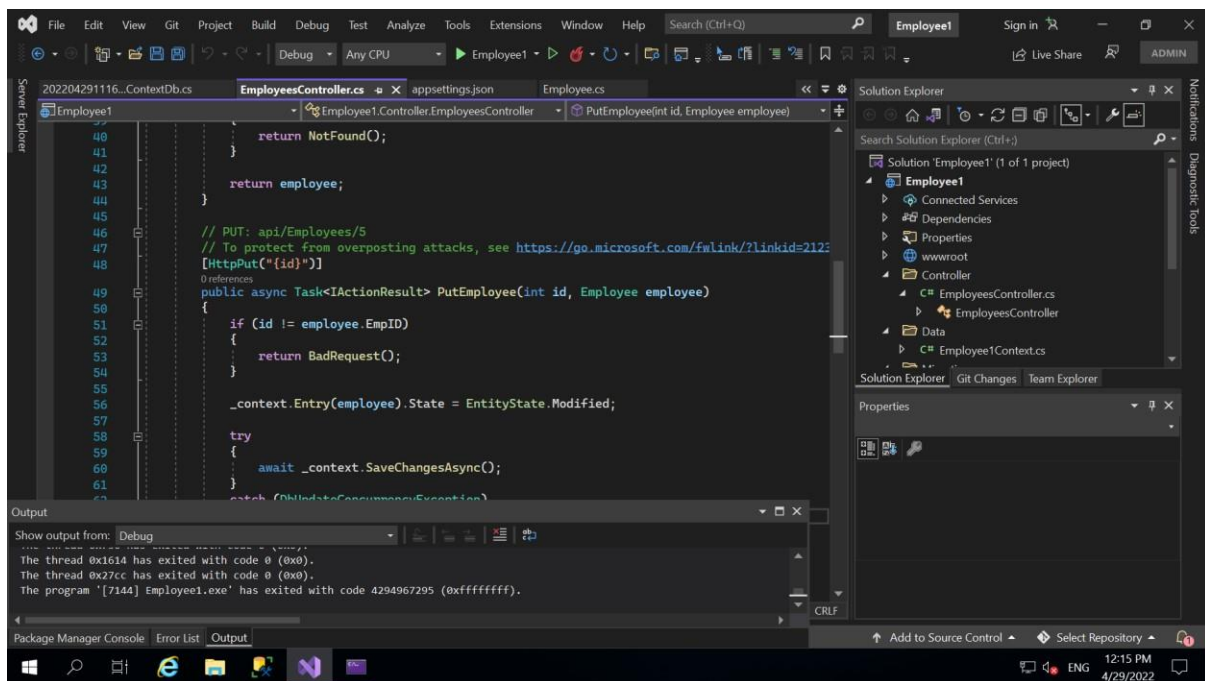
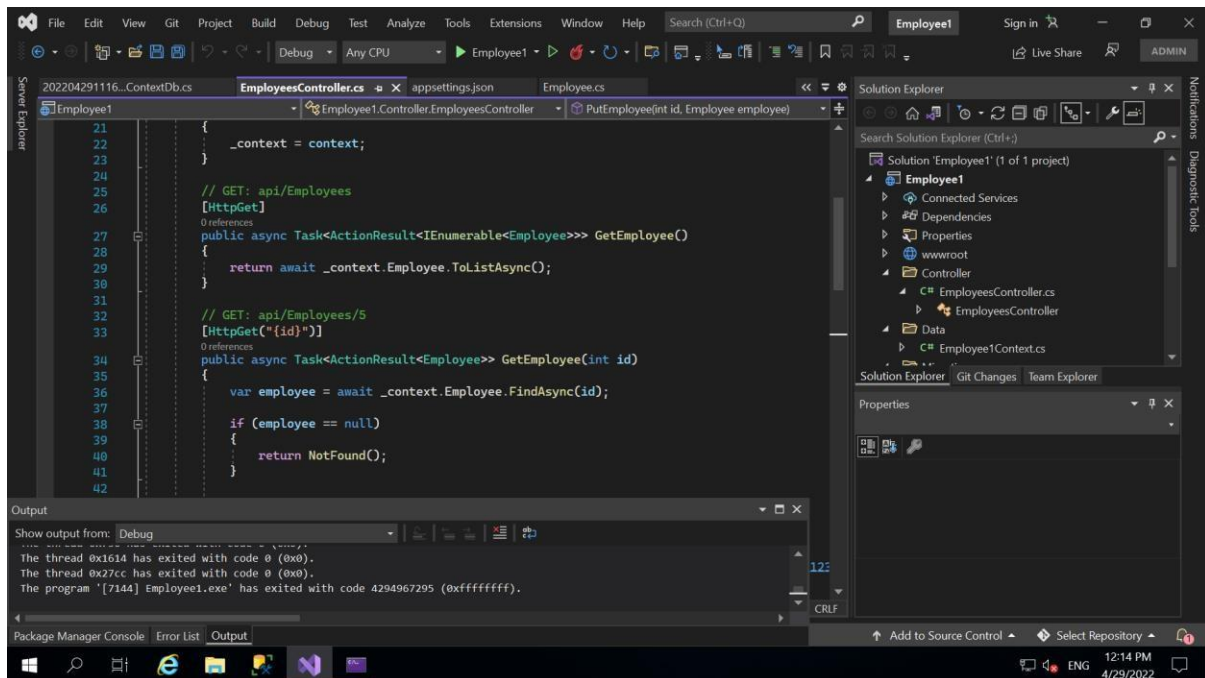
// DELETE: api/Employees/5    [HttpDelete("{id}")]
public async Task<ActionResult> DeleteEmployee(int id)
{
    var employee = await _context.Employee.FindAsync(id);    if (employee == null)
    {
        return NotFound();
    }

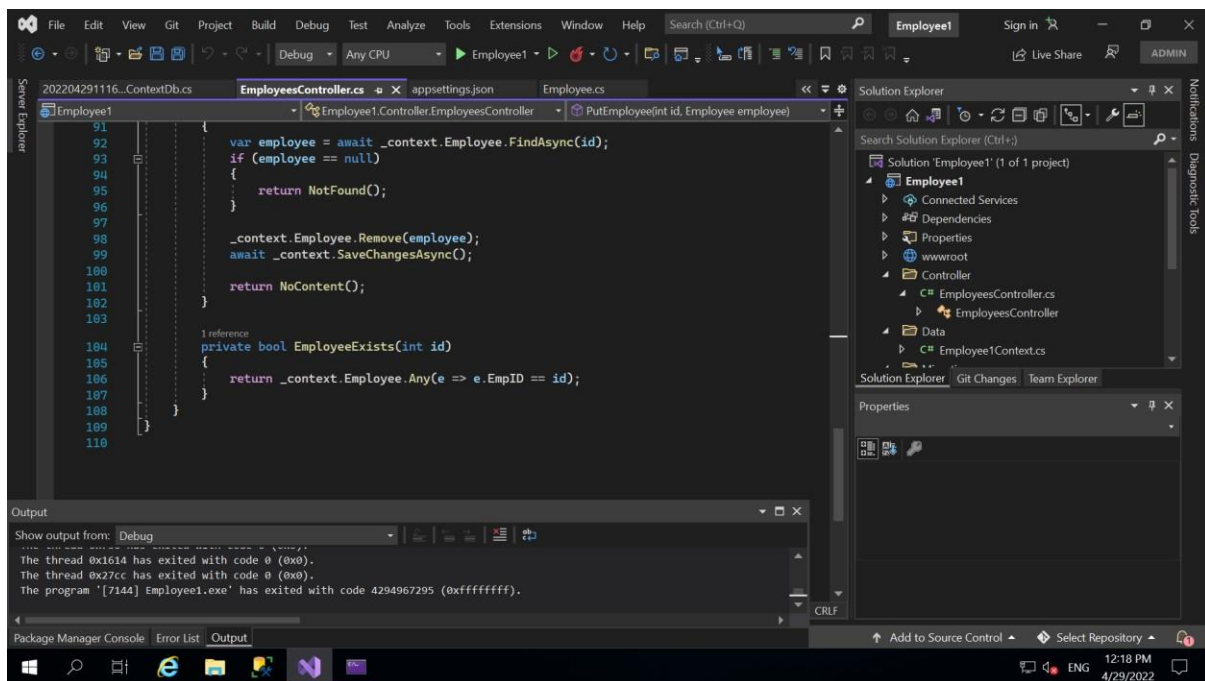
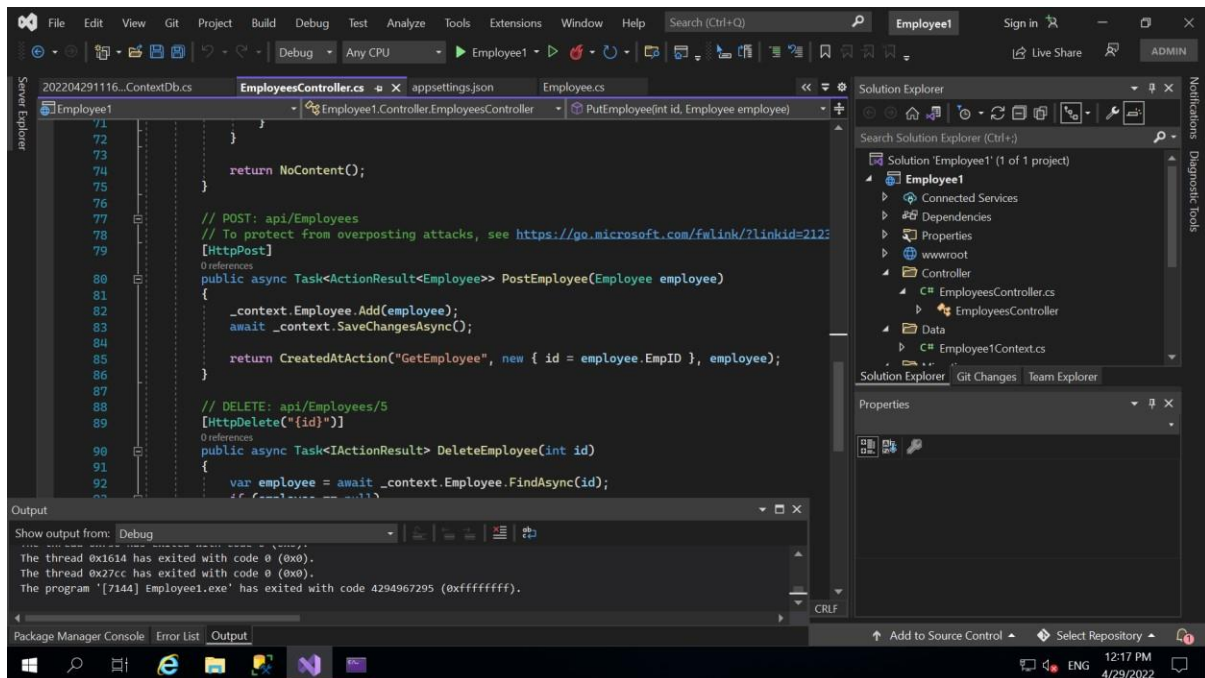
    _context.Employee.Remove(employee);    await
    _context.SaveChangesAsync();

    return NoContent();
}
private bool EmployeeExists(int id)
{
    return _context.Employee.Any(e => e.EmpID == id);
}
}
}

```







CODE FOR EMPLOYEECONTEXT .CS#nullable disable using System;
using System.Collections.Generic; using
System.Linq; using System.Threading.Tasks; using
Microsoft.EntityFrameworkCore; using
Employee1.Models;

```

namespace Employee1.Data
{
    public class Employee1Context : DbContext

```



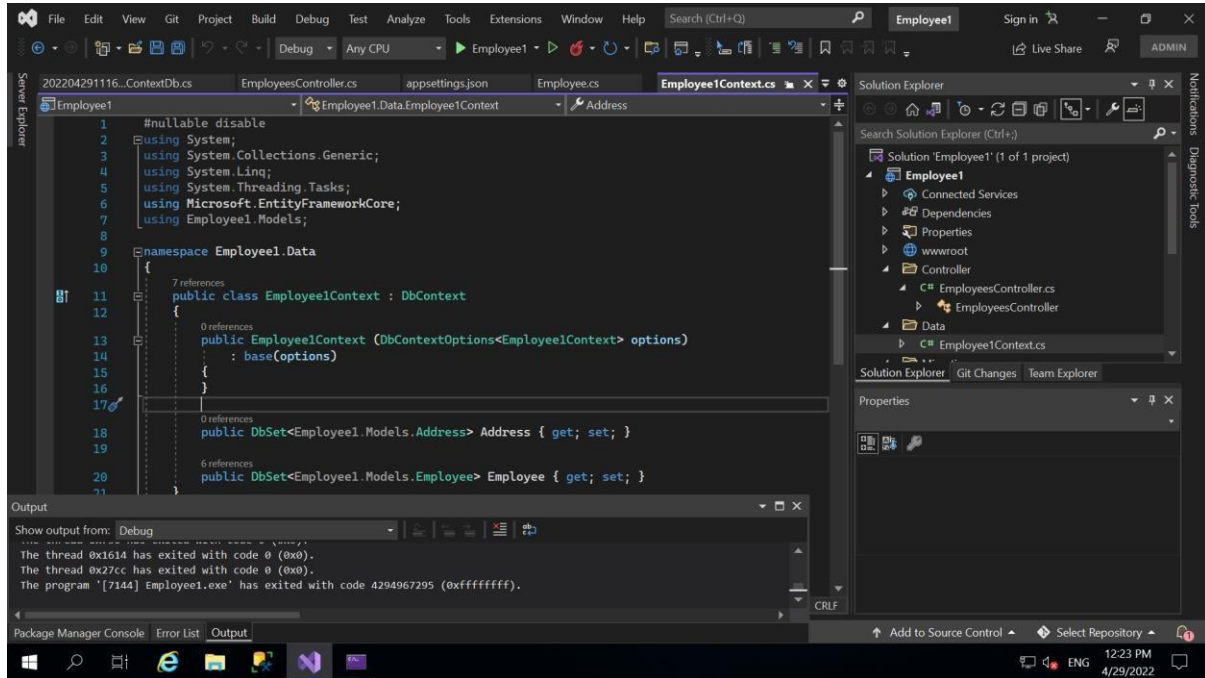
```

{
    public Employee1Context (DbContextOptions<Employee1Context> options)
        : base(options)
    {
    }

    public DbSet<Employee1.Models.Address> Address { get; set; }

    public DbSet<Employee1.Models.Employee> Employee { get; set; }
}
}

```

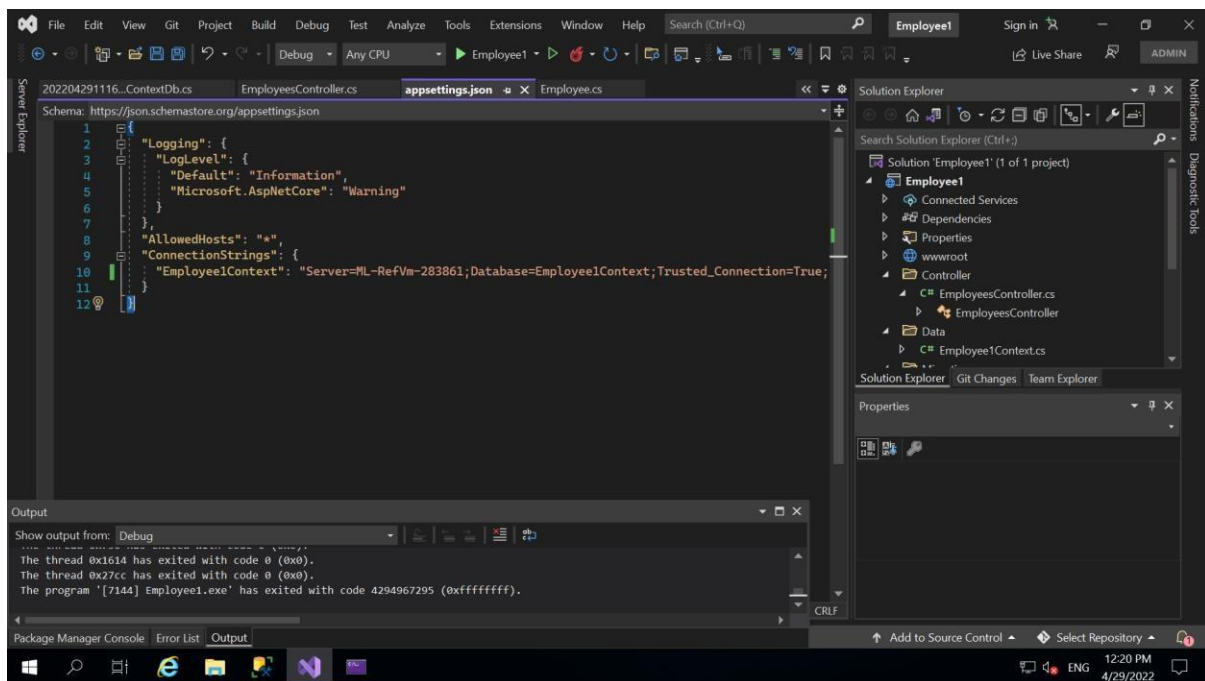
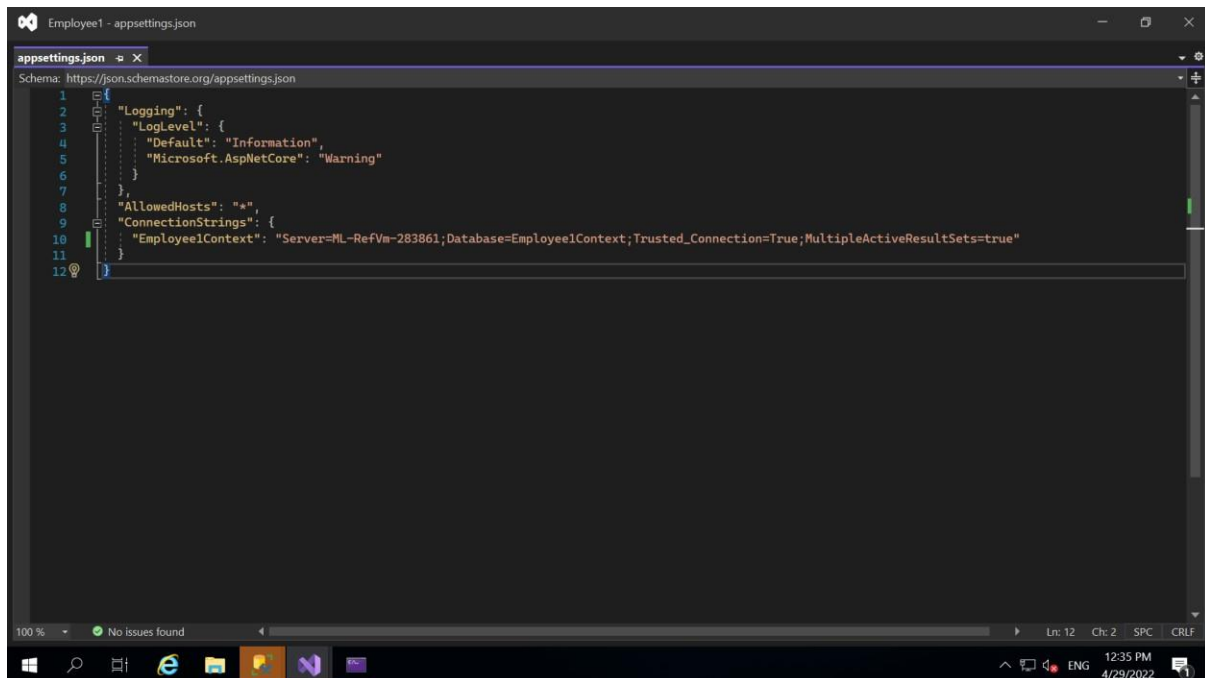


CONNECTON TO THE STRING

```

{
    "Logging": {
        "LogLevel": {
            "Default": "Information",
            "Microsoft.AspNetCore": "Warning"
        }
    },
    "AllowedHosts": "*",
    "ConnectionStrings": {
        "Employee1Context": "Server=ML-RefVm-283861;Database=Employee1Context;Trusted_Connection=True;MultipleActiveResultSets=true"
    }
}

```



THEN ADDING MIGRATION

AFTER ADDING MIGRATIONS DATABASE IS CREATED AUTOMATICALLY CODE FOR MIGRATION

using Microsoft.EntityFrameworkCore.Migrations; #nullable disable

namespace Employee1.Migrations

{

public partial class Employee1ContextDb : Migration


```

{
    protected override void Up(MigrationBuilder migrationBuilder)
    {
        migrationBuilder.CreateTable(
            name:
"Employee",
            columns: table => new
            {
                EmpID = table.Column<int>(type: "int", nullable: false)
                    .Annotation("SqlServer:Identity", "1, 1"),
                EmployeeName = table.Column<string>(type: "nvarchar(max)", nullable: false),
                Age = table.Column<int>(type: "int", nullable: false),
                Notes = table.Column<string>(type:
"nvarchar(max)", nullable: false)
            },
            constraints: table =>
            {
                table.PrimaryKey("PK_Employee", x => x.EmpID);
            });

        migrationBuilder.CreateTable(
            name:
"Address",
            columns: table => new
            {
                AddressID = table.Column<int>(type: "int", nullable: false)
                    .Annotation("SqlServer:Identity", "1, 1"),
                Lane = table.Column<string>(type: "nvarchar(max)", nullable:
false),
                City = table.Column<string>(type: "nvarchar(max)", nullable:
false),
                EmpID = table.Column<string>(type: "nvarchar(max)", nullable: false),
                EmpID = table.Column<int>(type: "int", nullable: false)
            },
            constraints: table =>
            {
                table.PrimaryKey("PK_Address", x => x.AddressID);
                table.ForeignKey(
                    name: "FK_Address_Employee_EmpID",
                    column: x =>
x.EmpID,
                    principalTable: "Employee",
                    principalColumn:
"EmpID",
                    onDelete: ReferentialAction.Cascade);
            });

        migrationBuilder.CreateIndex(
            name:
"IX_Address_EmpID",
            table: "Address",
            column: "EmpID");
    }
    protected override void Down(MigrationBuilder migrationBuilder)
    {
        migrationBuilder.DropTable(
            name: "Address");

        migrationBuilder.DropTable(
            name: "Employee");
    }
}

```

