*SQL Code

```
Worksheet Query Builder
    create or replace PACKAGE Student_Package AS
     PROCEDURE Find (StudentIdl NUMBER);
     PROCEDURE Marks;
     PROCEDURE GetCoursesList(StudentIdl NUMBER);
    END Student_Package;
   Create or replace PACKAGE Body Student Package AS
   PROCEDURE Find (StudentIdl NUMBER) AS
     c_all SYS_REFCURSOR;
     BEGIN
     OPEN c_all FOR
     SELECT * FROM student WHERE StudentId = StudentId1;
     DBMS_SQL.RETURN_RESULT(c_all);
     END;
    PROCEDURE Marks AS
     c_all SYS REFCURSOR;
     BEGIN
     OPEN c_all FOR
     SELECT MAX (Mark) "Maximum", MIN (Mark) "Minimum", COUNT (Mark) "Count", Round (AVG (Mark), 2) "Average" FROM student;
     DBMS_SQL.RETURN_RESULT(c_all);
     END Marks:
   PROCEDURE GetCoursesList(StudentIdl Number) AS
     c_all SYS REFCURSOR;
     BEGIN
     OPEN c_all FOR
     SELECT Course.CourseId ,CourseName,Price,StartDate ,EndDate,ImageName FROM Course
     JOIN StudentCourse ON Course.CourseId = StudentCourse.Courseid
     WHERE StudentCourse.StudentId = StudentIdl;
     DBMS_SQL.RETURN_RESULT(c_all);
     END GetCoursesList;
     END Student_Package;
```

*Visual Studio

A:DTO

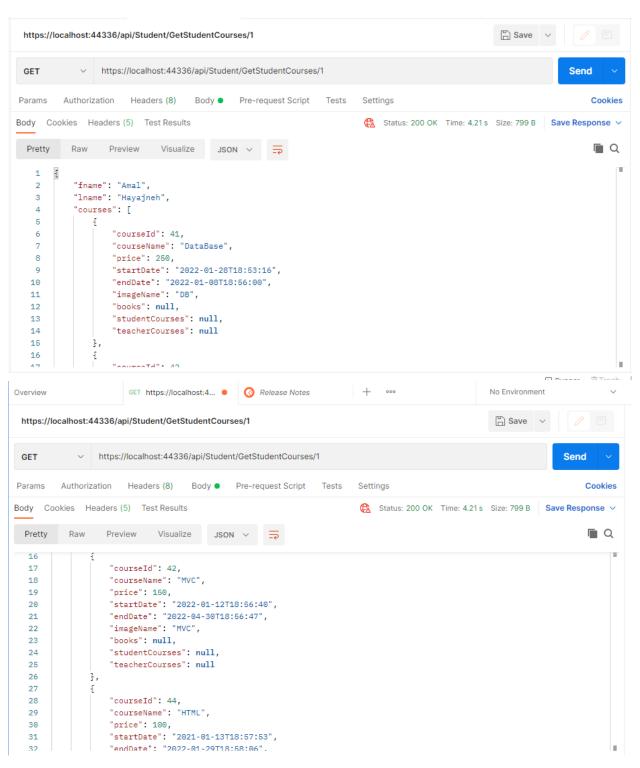
B: Repository

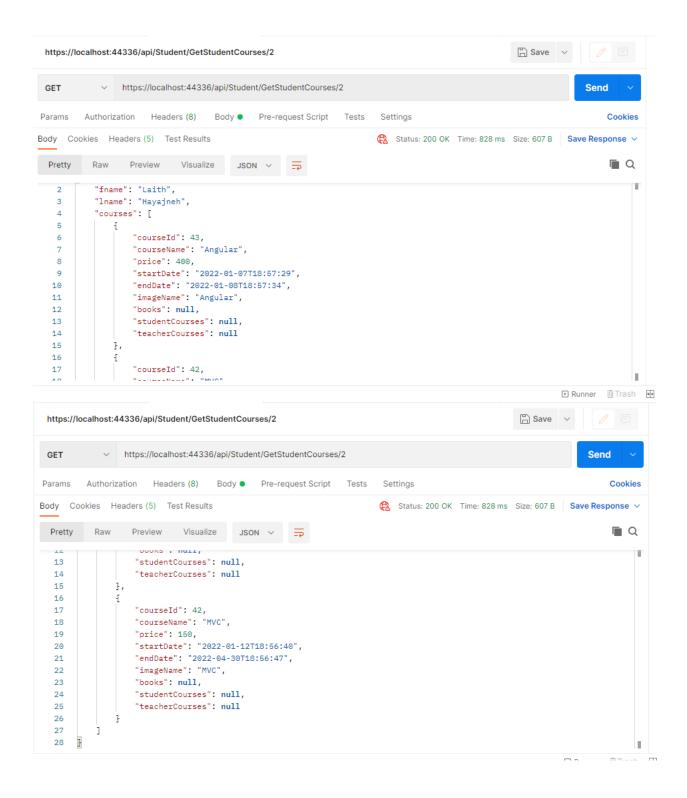
C: Controller

```
Inammespace tahaluf.LMS.API.Controllers

{
    [Route("api/[controller]")]
    [ApiController]
    1 reference
    public class StudentController : Controller
    {
        private readonly IStudentService studentService;
        0 references
        public StudentController(IStudentService _studentService)
        {
            studentService = _studentService;
        }
        [HttpGet("GetStudentCourses/{id}")]
        [ProducesResponseType(typeof(StudentCoursesDTO), StatusCodes.Status2000K)]
        [ProducesResponseType(StatusCodes.Status400BadRequest)]
        0 references
        public StudentCoursesDTO GetStudentCourses(decimal id)
        {
            return studentService.GetStudentCourses(id);
        }
}
```

*Postman





2.Create an API to calculate the maximum, minimum, count and average of marks (student table).

A:DTO

```
StudentController.cs StudentCoursesDTO.cs Student.cs StudentService.cs StudentRepository.cs StudentsMarksDTO.cs ** X IStudentService.cs StudentsMarksDTO.cs ** X IStudentsMarksDTO.cs ** X ISTudentsMarksDTO.c
```

B: Repository

C: Controller

```
☐using Microsoft.AspNetCore.Http;
  using Microsoft.AspNetCore.Mvc;
   using System;
  using System.Collections.Generic;
  using tahaluf.LMS.Core.DTO;
  using tahaluf.LMS.Core.Service;
 mamespace tahaluf.LMS.API.Controllers
      [Route("api/[controller]")]
      [ApiController]
          private readonly IStudentService;
              studentService = _studentService;
П
           [ProducesResponseType(typeof(StudentsMarksDTO), StatusCodes.Status2000K)]
          [ProducesResponseType(StatusCodes.Status400BadRequest)]
          Oreferences
public List<StudentsMarksDTO> GetMarks()
              return studentService.GetMarks();
```

*Postman

