Practice Project-3

Section 7 Source Code

StudentsMarksController.cs

```
using System;
using System.Collections.Generic;
using System.Data;
using System.Data.Entity;
using System.Linq;
using System.Net;
using System.Web;
using System.Web.Mvc;
using\ Display\_Statistics\_of\_Marks\_Obtained\_by\_Students. Models;
name space\ Display\_Statistics\_of\_Marks\_Obtained\_by\_Students.Content
{
  public\ class\ Student Marks Controller: Controller
    private StudentDatabaseEntities db = new StudentDatabaseEntities();
    // GET: StudentMarks
    public ActionResult Index()
    {
      return View(db.StudentMarks.ToList());
    }
    // GET: StudentMarks/Details/5
    public ActionResult Details(int?id)
      if (id == null)
      {
        return new HttpStatusCodeResult(HttpStatusCode.BadRequest);
```

```
}
      StudentMark studentMark = db.StudentMarks.Find(id);
     if (studentMark == null)
     {
       return HttpNotFound();
     return View(studentMark);
   }
    // GET: StudentMarks/Create
    public ActionResult Create()
     return View();
   }
   // POST: StudentMarks/Create
   // To protect from overposting attacks, enable the specific properties you want to bind to, for
    // more details see https://go.microsoft.com/fwlink/?LinkId=317598.
    [HttpPost]
    [ValidateAntiForgeryToken]
    public ActionResult Create([Bind(Include = "StudentID,FirstName,LastName,Subject,Marks")] StudentMark
studentMark)
   {
      if (ModelState.IsValid)
       db.StudentMarks.Add(studentMark);
       db.SaveChanges();
       return RedirectToAction("Index");
     }
      return View(studentMark);
   }
```

```
// GET: StudentMarks/Edit/5
   public ActionResult Edit(int? id)
     if (id == null)
     {
       return new HttpStatusCodeResult(HttpStatusCode.BadRequest);
     }
     StudentMark studentMark = db.StudentMarks.Find(id);
     if (studentMark == null)
     {
       return HttpNotFound();
     }
     return View(studentMark);
   }
   // POST: StudentMarks/Edit/5
   // To protect from overposting attacks, enable the specific properties you want to bind to, for
   // more details see https://go.microsoft.com/fwlink/?LinkId=317598.
   [HttpPost]
   [ValidateAntiForgeryToken]
   public ActionResult Edit([Bind(Include = "StudentID,FirstName,LastName,Subject,Marks")] StudentMark
studentMark)
   {
     if (ModelState.IsValid)
       db.Entry(studentMark).State = EntityState.Modified;
       db.SaveChanges();
       return RedirectToAction("Index");
     return View(studentMark);
   }
   // GET: StudentMarks/Delete/5
```

```
public ActionResult Delete(int? id)
{
 if (id == null)
 {
    return new HttpStatusCodeResult(HttpStatusCode.BadRequest);
 }
  StudentMark studentMark = db.StudentMarks.Find(id);
 if (studentMark == null)
 {
    return HttpNotFound();
 }
  return View(studentMark);
}
// POST: StudentMarks/Delete/5
[HttpPost, ActionName("Delete")]
[ValidateAntiForgeryToken]
public ActionResult DeleteConfirmed(int id)
 StudentMark studentMark = db.StudentMarks.Find(id);
 db.StudentMarks.Remove(studentMark);
  db.SaveChanges();
 return RedirectToAction("Index");
}
protected override void Dispose(bool disposing)
{
 if (disposing)
 {
    db.Dispose();
 }
 base.Dispose(disposing);
```

```
}
 }
}
Layout.cshtml
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8"/>
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>@ViewBag.Title - My ASP.NET Application</title>
  @Styles.Render("~/Content/css")
  @Scripts.Render("~/bundles/modernizr")
</head>
<body>
  <nav class="navbar navbar-expand-sm navbar-toggleable-sm navbar-dark bg-dark">
   <div class="container">
     @Html.ActionLink("Application name", "Index", "Home", new { area = "" }, new { @class = "navbar-brand" })
     <button type="button" class="navbar-toggler" data-bs-toggle="collapse" data-bs-target=".navbar-collapse"
title="Toggle navigation" aria-controls="navbarSupportedContent"
         aria-expanded="false" aria-label="Toggle navigation">
       <span class="navbar-toggler-icon"></span>
     </button>
     <div class="collapse navbar-collapse d-sm-inline-flex justify-content-between">
       <!><!i>Mtml.ActionLink("Home", "Index", "Home", new { area = "" }, new { @class = "nav-link" })
         @Html.ActionLink("About", "About", "Home", new { area = "" }, new { @class = "nav-link" })
         <!i>@Html.ActionLink("Contact", "Contact", "Home", new { area = "" }, new { @class = "nav-link" })
         Mtml.ActionLink("Student Details", "Index", "Students", new { area = "" }, new { @class = "nav-link"
})
```

</div>

```
</div>
 </nav>
 <div class="container body-content">
   @RenderBody()
   <hr />
   <footer>
     © @DateTime.Now.Year - My ASP.NET Application
   </footer>
 </div>
 @Scripts.Render("~/bundles/jquery")
 @Scripts.Render("~/bundles/bootstrap")
 @RenderSection("scripts", required: false)
</body>
</html>
Index.cshtml
@model IEnumerable<Display_Statistics_of_Marks_Obtained_by_Students.Models.StudentMark>
<mark>@{</mark>
 ViewBag.Title = "Index";
<h2>Index</h2>
>
 @Html.ActionLink("Create New", "Create")
```

@Html.DisplayNameFor(model => model.StudentID)

```
@Html.DisplayNameFor(model => model.FirstName)
  @Html.DisplayNameFor(model => model.LastName)
  @Html.DisplayNameFor(model => model.Subject)
  @Html.DisplayNameFor(model => model.Marks)
  @foreach (var item in Model) {
 @Html.DisplayFor(modelItem => item.StudentID)
  @Html.DisplayFor(modelItem => item.FirstName)
  @Html.DisplayFor(modelItem => item.LastName)
  @Html.DisplayFor(modelItem => item.Subject)
```

```
@Html.DisplayFor(modelItem => item.Marks)
   ### Html.ActionLink("Edit", "Edit", new { id = item.StudentID }) |
     Html.ActionLink("Details", "Details", new { id = item.StudentID }) |
     @Html.ActionLink("Delete", "Delete", new { id = item.StudentID })
   }
SQL Query
CREATE DATABASE StudentDatabase;
USE StudentDatabase;
CREATE TABLE StudentMarks (
  StudentID INT PRIMARY KEY,
  FirstName VARCHAR(50) NOT NULL,
  LastName VARCHAR(50) NOT NULL,
  Subject VARCHAR(50) NOT NULL,
  Marks INT NOT NULL
)
INSERT INTO StudentMarks (StudentID, FirstName, LastName, Subject, Marks) VALUES (1, 'John', 'Doe',
'Math', 90),
(2, 'Jane', 'Smith', 'science', 85),
(3,'Alice', 'Johnson', 'English', 78),
(4,'Bob', 'Brown', 'Advance-java', 92),
(5, 'Eva', 'Lee', 'Advance-python', 88),
(6,'Michael', 'Clark', 'C#', 75)
```

SELECT AVG(Marks)AS AverageMarks,
MAX(Marks) AS MaximumMarks ,
MIN(Marks) AS MinimumMarks
FROM StudentMarks

SELECT * FROM StudentMarks;