Homework Assignment 8:
Databases 2 & Entity Framework

Important Notes:
- This is an individual assignment.
- Homework assignments are based on objective. If an objective has been achieved a mark is allocated.

Instructions:
- In this assignment you will have to create a new MVC project.
- You will use the database uploaded – **MyShopDB**
- This project will consist of 2 sections, Section 1 – Using SQL Commands, and Section 2 – Using Entity Framework.
- You will perform the exact same functions in each but using different frameworks for each.
- You will choose one table from the database to work with.
- You will have one controller, the **DataController,** wherein all the functionality will be performed.

<u>Functionality – for using both SQL Commands and Entity Framework:</u>
- Create the following views **(You need 2X each – one for SQL Commands and one for Entity Framework)**:
  - **Main View**
    - Table to display the items in the database
      - Update and delete button in each row
    - Add button
    - Link to other part (EF from SQL Commands or SQL Commands from EF)
  - **Add View**
    - Text boxes and labels for each attribute in the table
    - Appropriate buttons
  - **Update View**
    - Text boxes and labels for each attribute in the table
    - Appropriate buttons
- The **Main View** should be populated with items from the database table you chose. The **Update** button should redirect you to the **Update View**, and the **Delete** button should remove the item from the table.
- The **Add View** will allow you to add the item to the table in the database.
- The **Update View** will allow you to update the item you selected in the database.

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(_____/ 25 marks)

Student NR	Surname	Initials

Plagiarism Declaration	Signature
I declare that this assignment, demonstrated by me, is my own work.	

Checklist	Mark	MAX
1. The table is populated from the database • Using SQL Commands (3/6) • Using Entity Framework (3/6)		**6**
2. Items can be added • Using SQL Commands (3/6) • Using Entity Framework (3/6)		**6**
3. Items can be Updated • Using SQL Commands (4/8) • Using Entity Framework (4/8)		**8**
4. Items can be Deleted • Using SQL Commands (2.5/5) • Using Entity Framework (2.5/5)		**5**
TOTAL		**25**

Presentation	Factor	Final Mark (/25)
Student demonstrated an adequate understanding of the topics covered in this assignment as well as their application.	1.0	
Student showed a clear lack of understanding of the topics covered in this assignment and was not able to explain how these were applied.	0.5	