Table Definition

```
CREATE TABLE Students (
StudentID INT PRIMARY KEY,
Name VARCHAR(100),
GPA DECIMAL(3, 2),
LastModified DATETIME
```

AFTER INSERT Trigger (Logging)

```
CREATE TABLE StudentLog (
    LogID INT IDENTITY(1,1) PRIMARY KEY,
    StudentID INT,
    ActionTaken VARCHAR(100),
    LogDate DATETIME
);

CREATE TRIGGER trg_AfterInsert_Log
ON Students
AFTER INSERT
AS
BEGIN
    INSERT INTO StudentLog (StudentID, ActionTaken, LogDate)
    SELECT StudentID, 'Inserted', GETDATE()
    FROM inserted;
END;
```

AFTER UPDATE Trigger (GPA Change Tracking)

```
CREATE TABLE GPAChangeLog (
   LogID INT IDENTITY(1,1),
    StudentID INT,
    OldGPA DECIMAL(3, 2),
    NewGPA DECIMAL(3, 2),
    ChangeDate DATETIME
);
CREATE TRIGGER trg_AfterUpdate_GPA
ON Students
AFTER UPDATE
AS
BEGIN
    INSERT INTO GPAChangeLog (StudentID, OldGPA, NewGPA, ChangeDate)
    SELECT d.StudentID, d.GPA, i.GPA, GETDATE()
    FROM deleted d
    JOIN inserted i ON d.StudentID = i.StudentID
    WHERE d.GPA <> i.GPA;
```

FOR DELETE Trigger (Audit Deletion)

```
CREATE TABLE DeletedStudents (
    StudentID INT,
    Name VARCHAR(100),
    DeletedDate DATETIME
);

CREATE TRIGGER trg_ForDelete_Archive
ON Students
FOR DELETE
AS
BEGIN
    INSERT INTO DeletedStudents (StudentID, Name, DeletedDate)
    SELECT StudentID, Name, GETDATE()
    FROM deleted;
```

AFTER UPDATE Trigger (Update Timestamp)

CREATE TRIGGER trg_AfterUpdate_Timestamp
ON Students
AFTER UPDATE