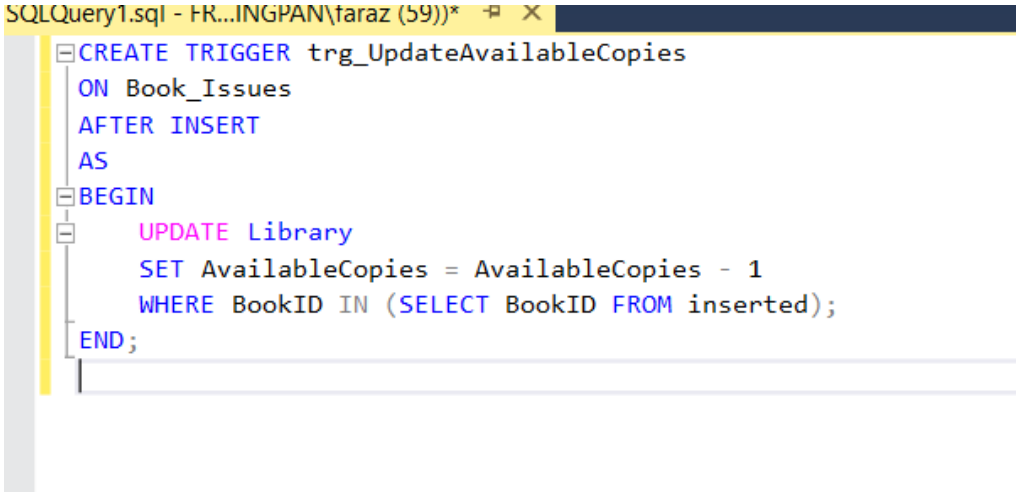
TRIGGERS

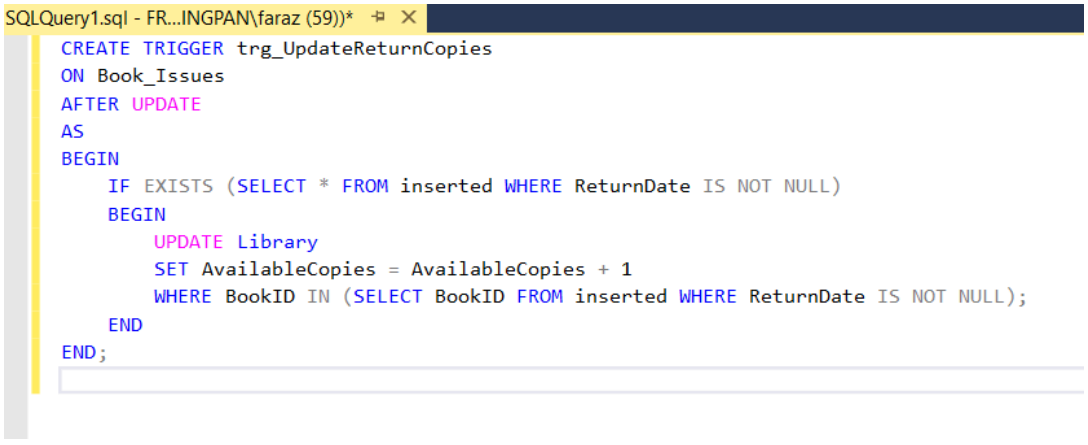
1. *Auto update available copies of books*



Description:

Automatically decreases the available copies of a book in the Library table when it is issued to a student.

2. *Auto Update return copies*



Description:

Automatically increases the available copies in the Library table when a book is returned.

3. *Prevent Duplicate Enrollment*

SQLQuery1.sql - FR...INGPAN\faraz (59))*

```
ON Enrollment
INSTEAD OF INSERT
AS
BEGIN
    IF EXISTS (
        SELECT 1 FROM Enrollment e
        JOIN inserted i ON e.StudentID = i.StudentID AND e.CourseID = i.CourseID
    )
    BEGIN
        RAISERROR('Student already enrolled in this course.', 16, 1);
    END
    ELSE
    BEGIN
        INSERT INTO Enrollment (StudentID, CourseID, EnrollmentDate)
        SELECT StudentID, CourseID, EnrollmentDate FROM inserted;
    END
END;
```

Description:

Prevents a student from being enrolled in the same course more than once by checking for duplicates before insertion.

4. *Validate Payment*

SQLQuery1.sql - FR...INGPAN\faraz (59))*

```
CREATE TRIGGER trg_ValidatePayment
ON Payment
AFTER INSERT
AS
BEGIN
    IF EXISTS (SELECT 1 FROM inserted WHERE AmountPaid <= 0)
    BEGIN
        RAISERROR('AmountPaid must be greater than zero.', 16, 1);
        ROLLBACK;
    END
END;
```

Description:

Ensures that no payment with zero or negative amount is inserted into the payment table.