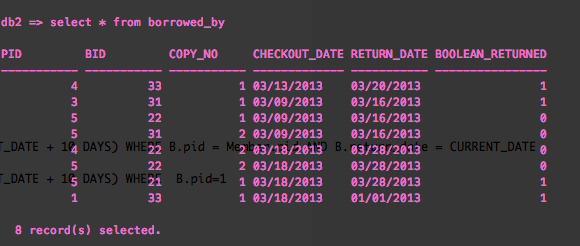
Question2.

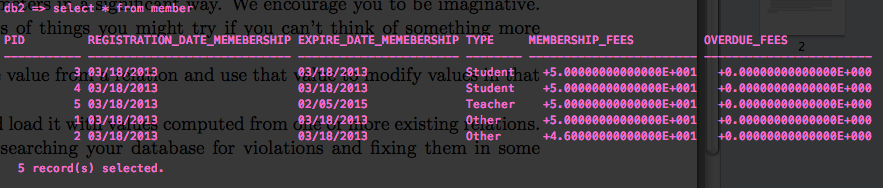
The stored procedure implemented for this question verifies every borrowed book and if the return\_date is smaller the current date the overdues\_fees are increased depending on the type of member (student +0.35 ,teacher +0.5 ,

other + 1.5)

Before running the stored procedure (date 03/18/2013)

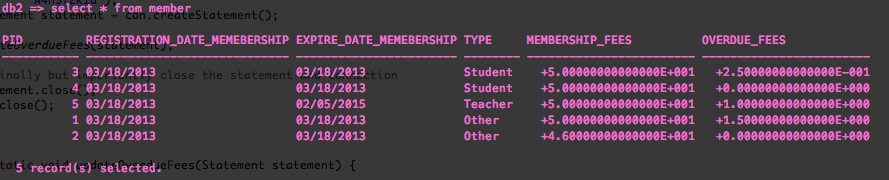


The above query shows that member with pid 5 has 2 late books, pid 1 and pid 3 has 1 late book.



The above query shows the overdue\_fees of members (pids)

After running the stored procedure



The above query shows the increase in overdue\_fees of members with overdue books

Pid 5 is a teacher (+0.5) and had 2 overdue books: 2\*0.5 =1.0

Pid 3 is a student (+0.25) and had 1 overdue book: 1\*0.25 = 0.25

Pid 1 is another type (+1.50) and had 1 overdue book: 1\*1.50 = 1.50

Question 1.

When a new book is borrowed if the return\_date of the book is set to default this trigger will automatically update return\_date to 10 days after.

CREATE TRIGGER set\_return\_date

AFTER INSERT ON Borrowed\_by

REFERENCING NEW as n

FOR EACH ROW

WHEN (n.return\_date = CURRENT\_DATE)

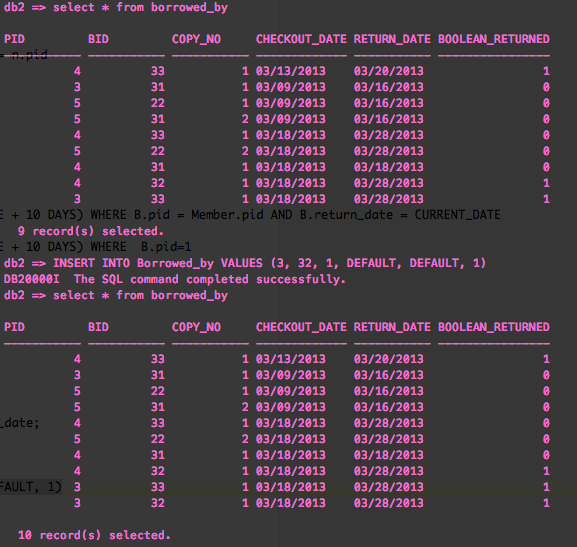
UPDATE Borrowed\_by

SET return\_date = (CURRENT\_DATE + 10 DAYS)

WHERE pid = n.pid AND bid = n.bid

3

The following query shows that if we insert a book with default retun\_date date which is the current date, the trigger will modify the return\_date to be (current date +10 days)



The following query shows that the return\_date is not updated since the inserted return date is not the curent date , therefor trigger does not run

