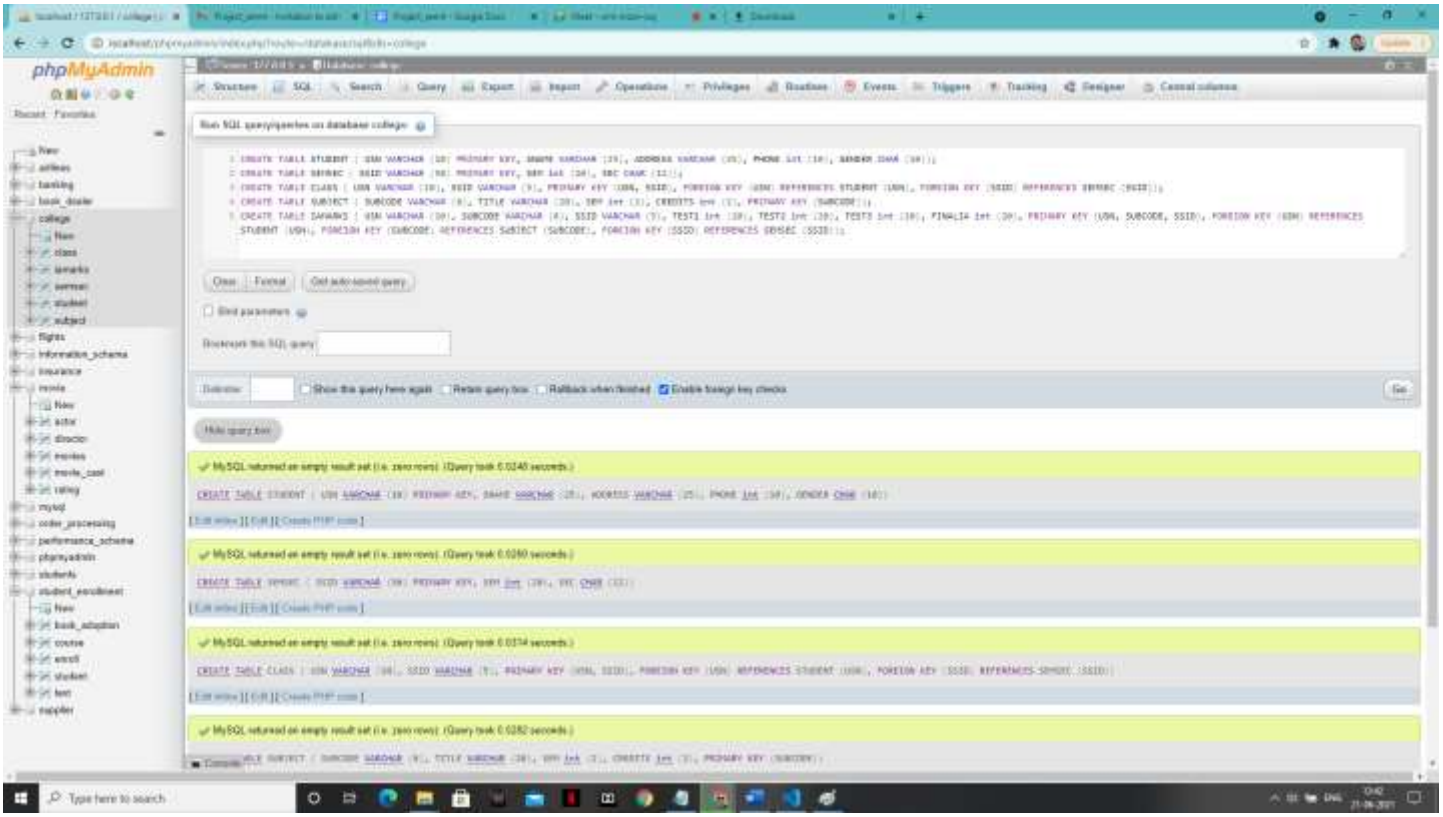
LAB- 10 (program)

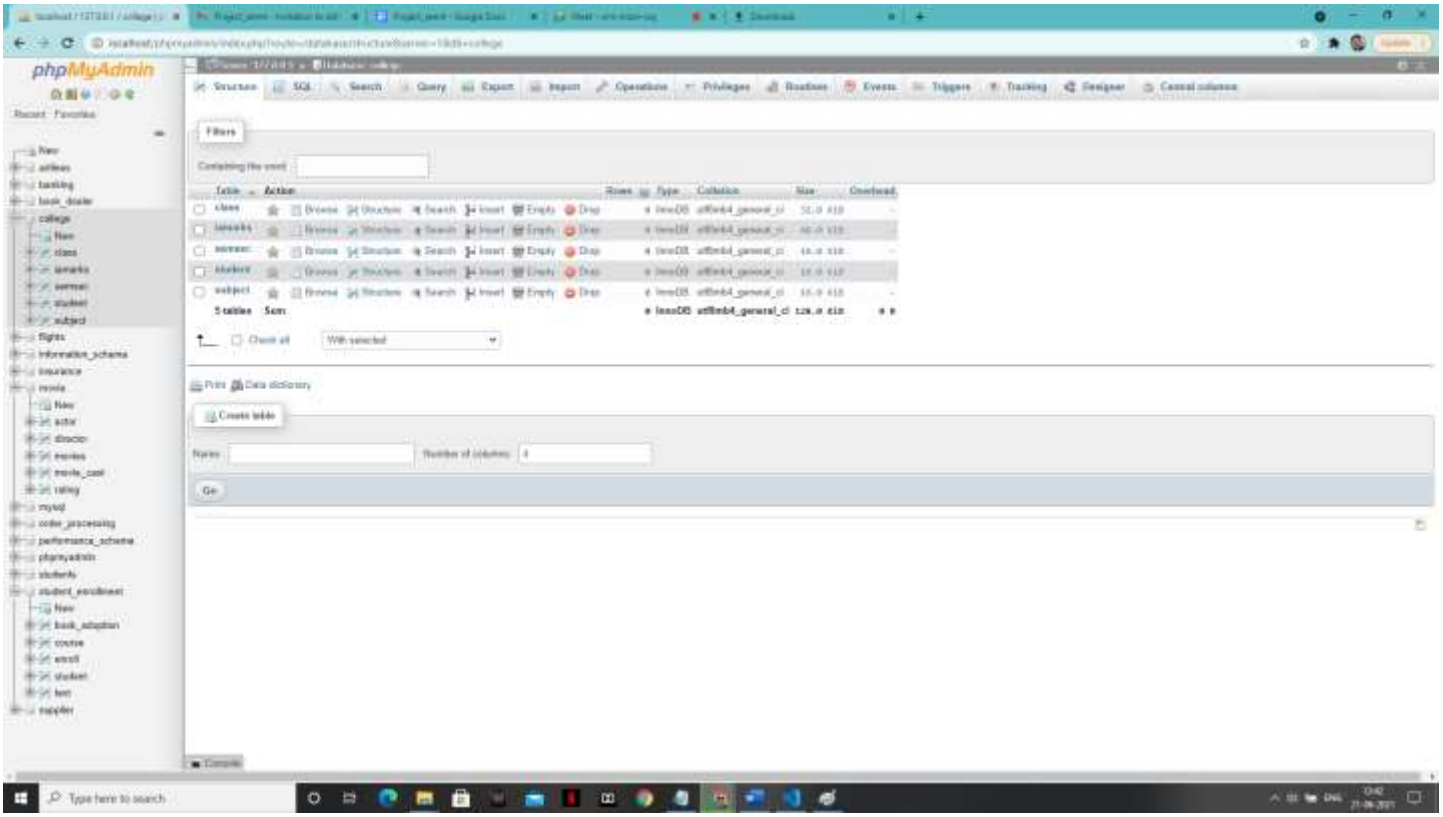
PROGRAM 10:- COLLEGE DATABASE

Consider the schema for College Database:
STUDENT(USN, SName, Address, Phone, Gender)
SEMSEC(SSID, Sem, Sec)
CLASS(USN, SSID)
SUBJECT(Subcode, Title, Sem, Credits)
MARKS(USN, Subcode, SSID, Test1, Test2, Test3, FinalIA)

i.List all the student details studying in fourth semester 'C' section.
ii. Compute the total number of male and female students in each semester and in each section.
iii. Create a view of Test1 marks of student USN '22' in all subjects.
iv. Calculate the FinalIA (average of best two test marks) and update the corresponding table for all students.
v. Categorize students based on the following criterion: If FinalIA = 17 to 20 then CAT = 'Outstanding' If FinalIA = 12 to 16 then CAT = 'Average' If FinalIA< 12 then CAT = 'Weak' Give these details only for 8th semester A, B, and C section students.

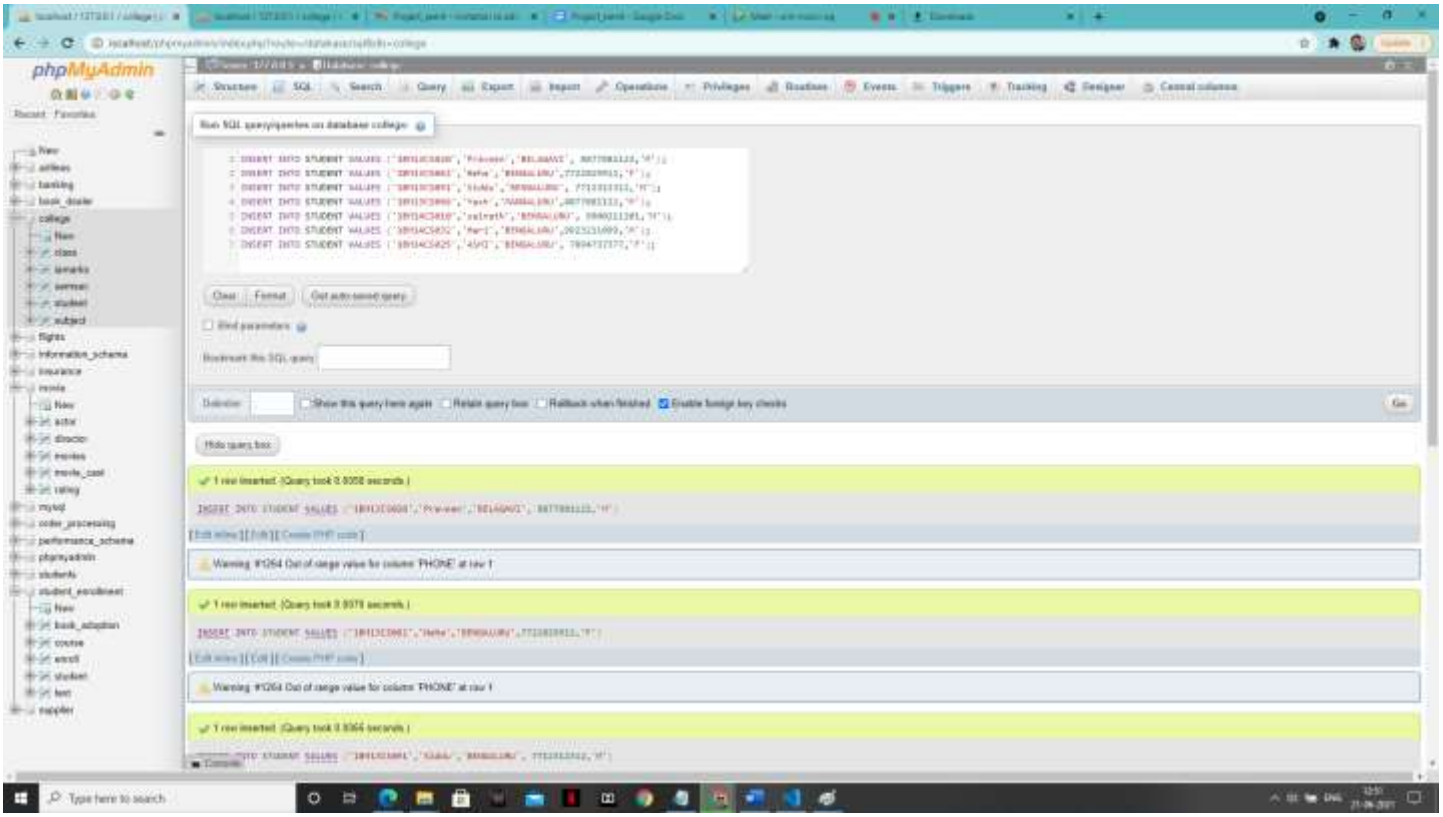
Create table:-



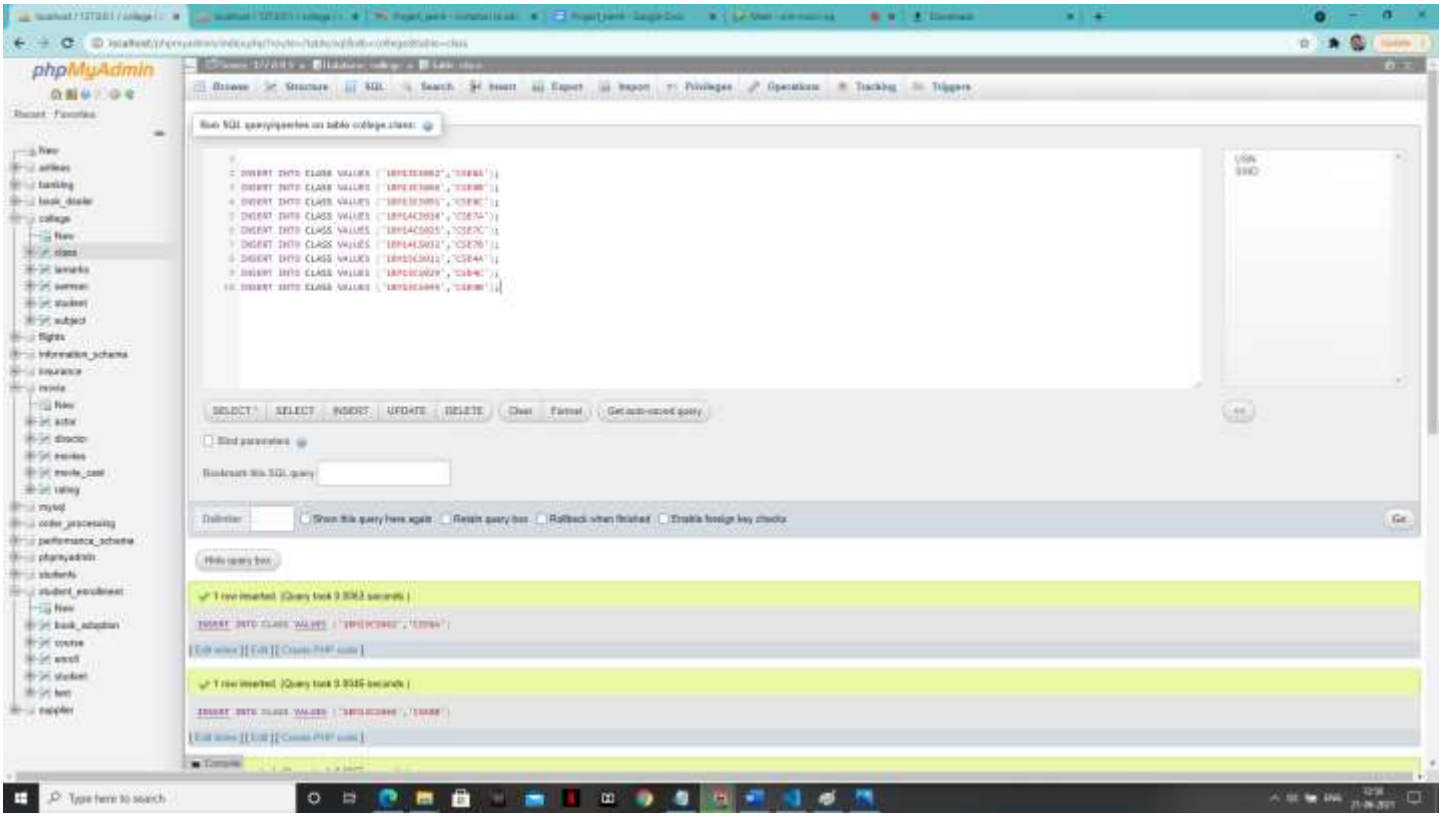


2) Enter tuples for each relation.

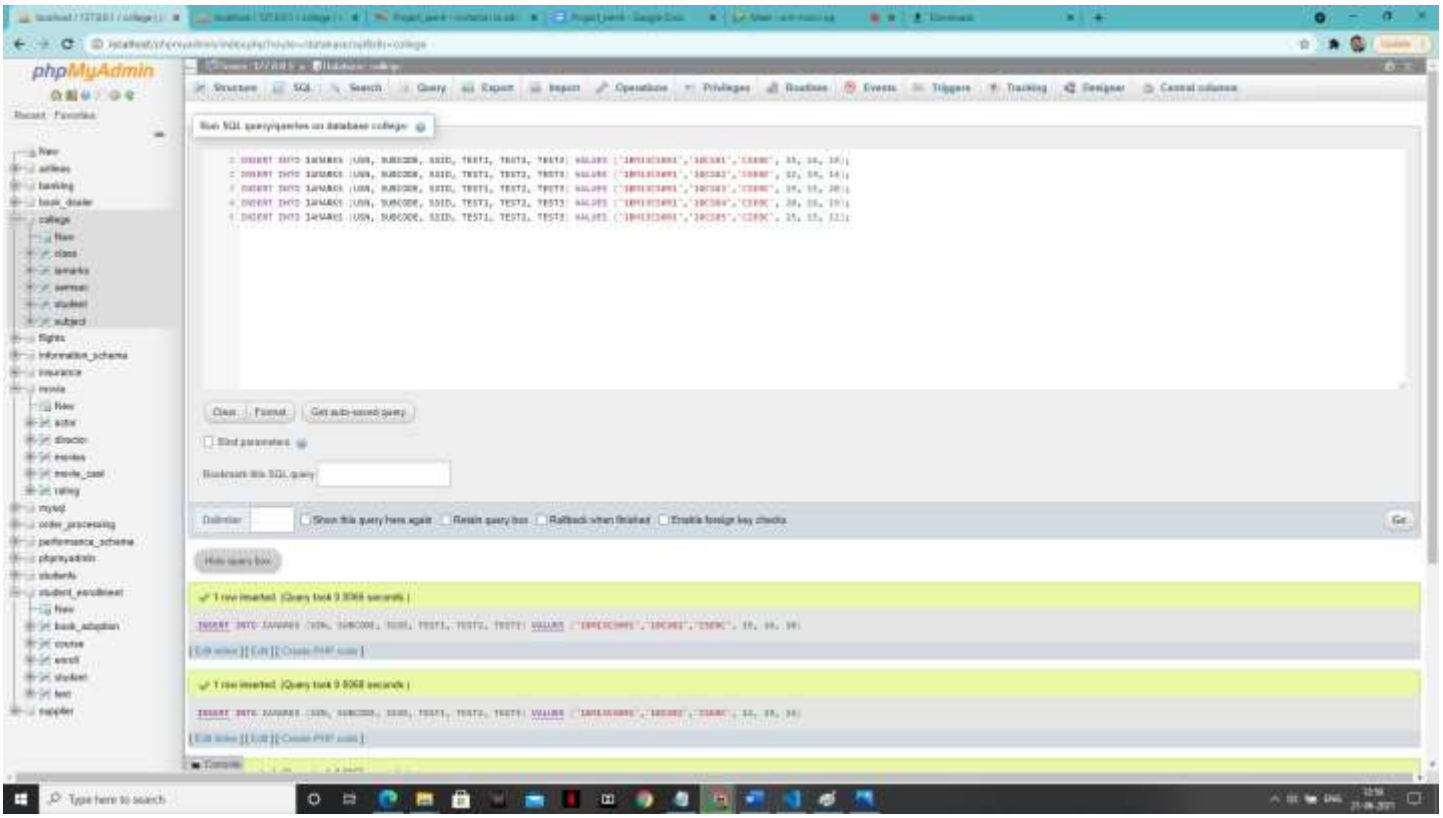
'STUDENT' table:



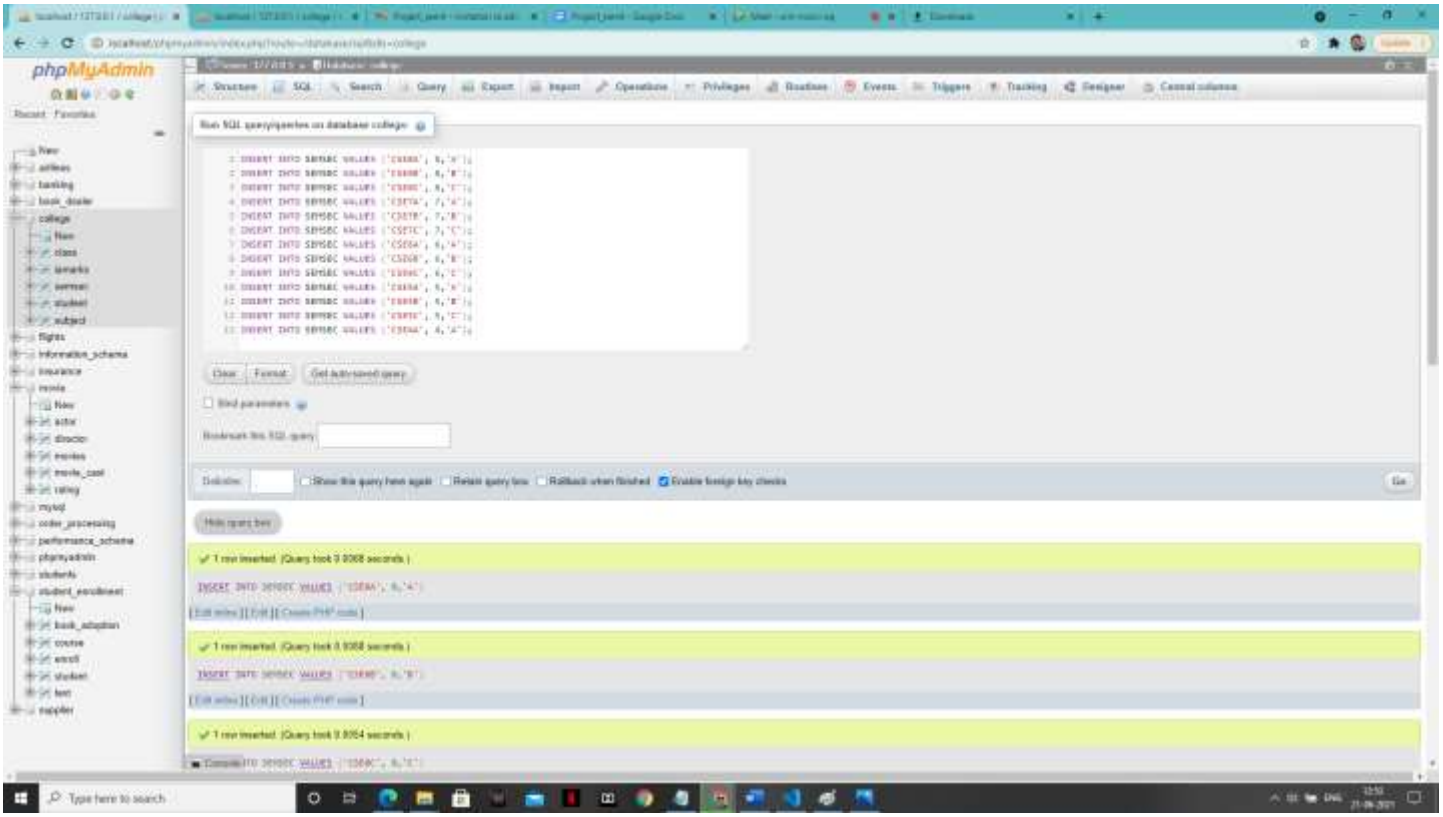
‘Class’ table:



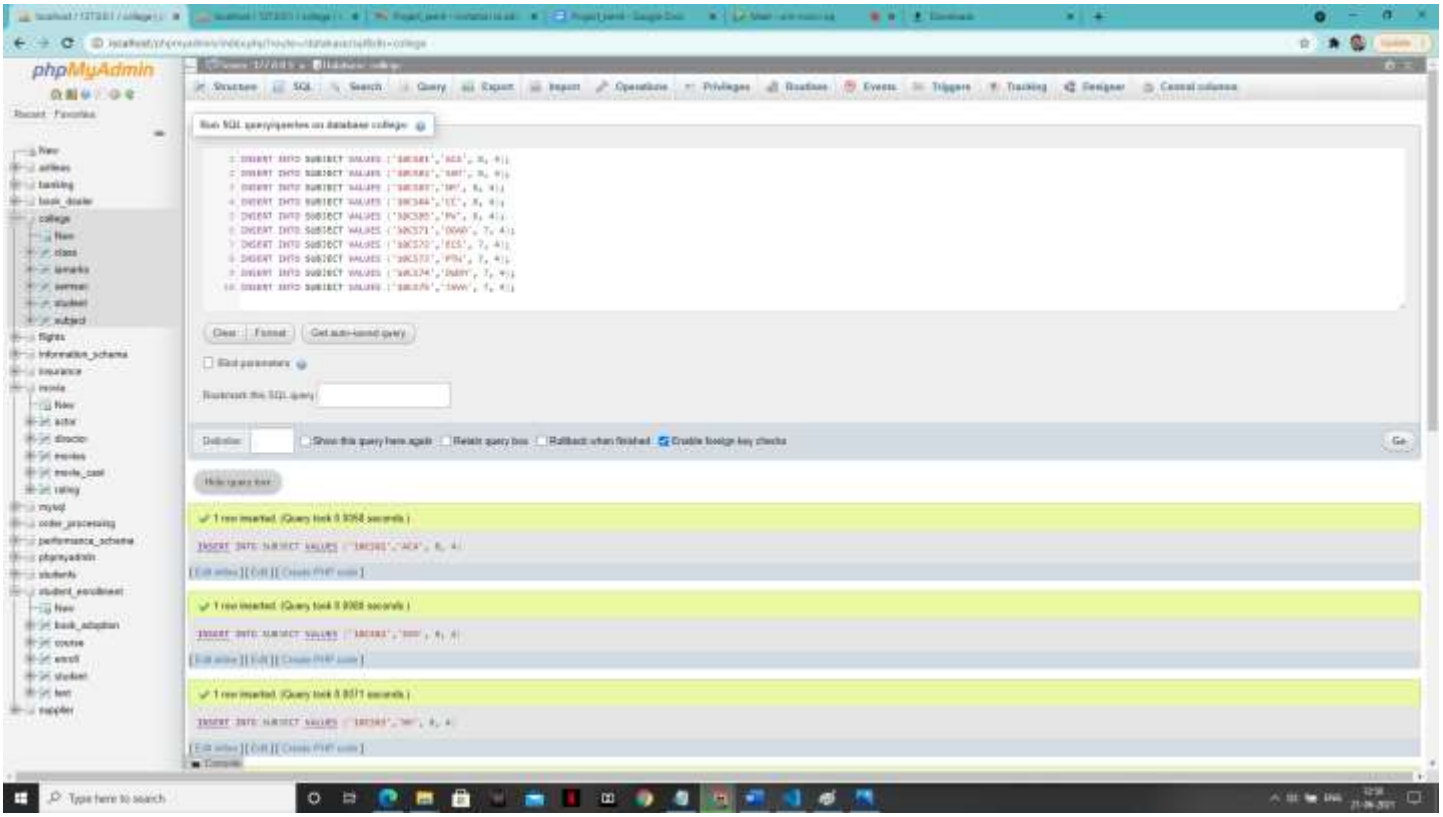
‘Marks’ table:



‘semsec’ value: -

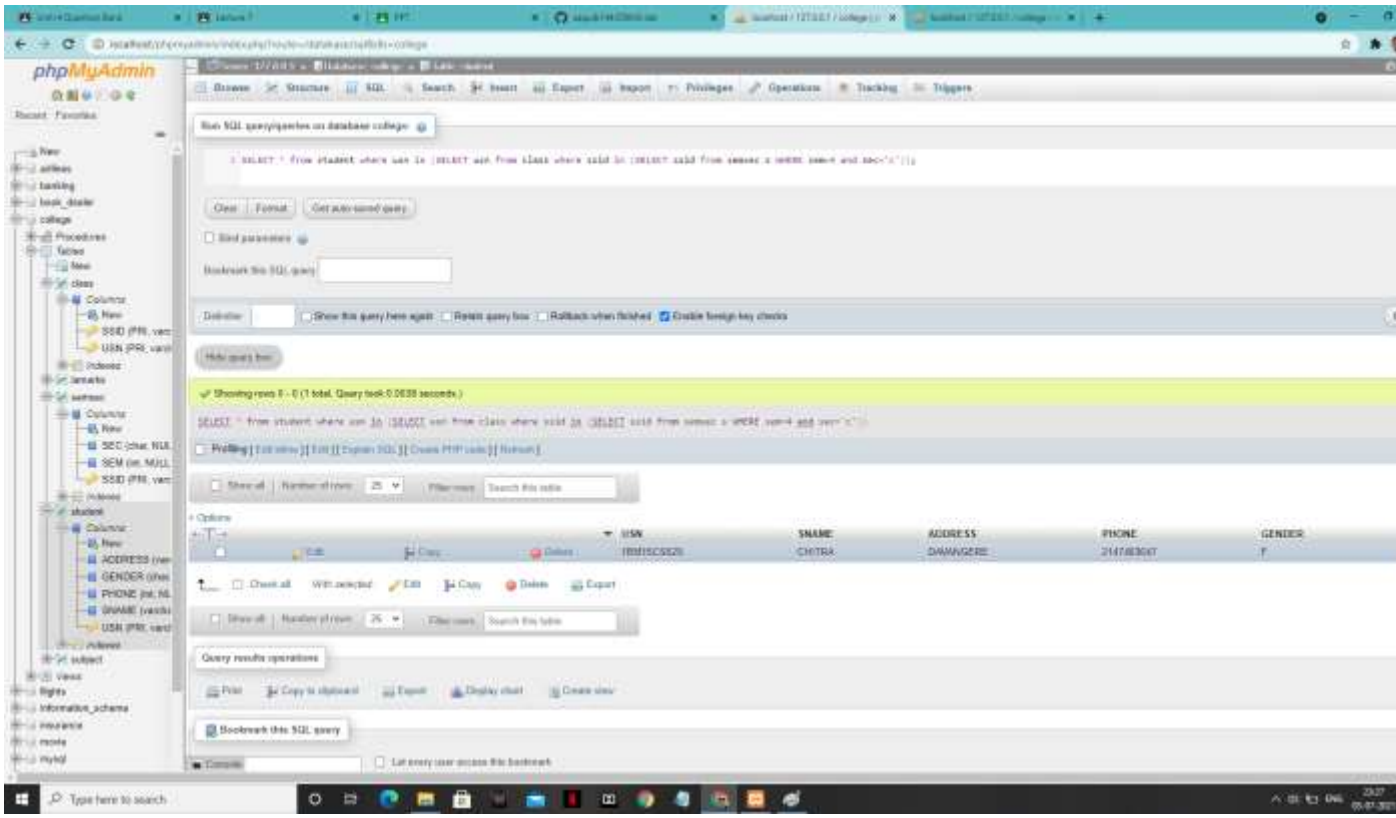


‘subject’ table:

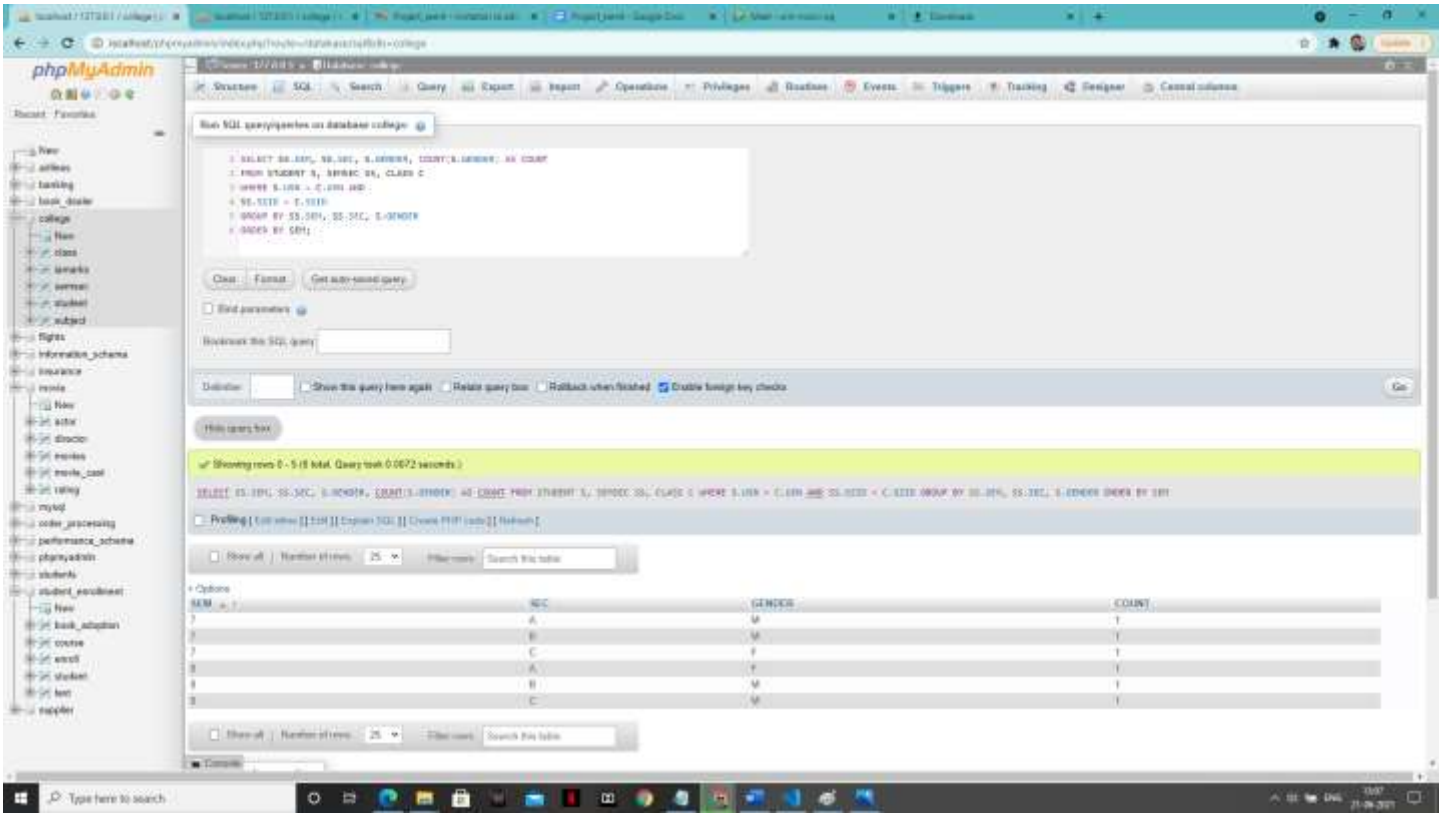


SOLUTION

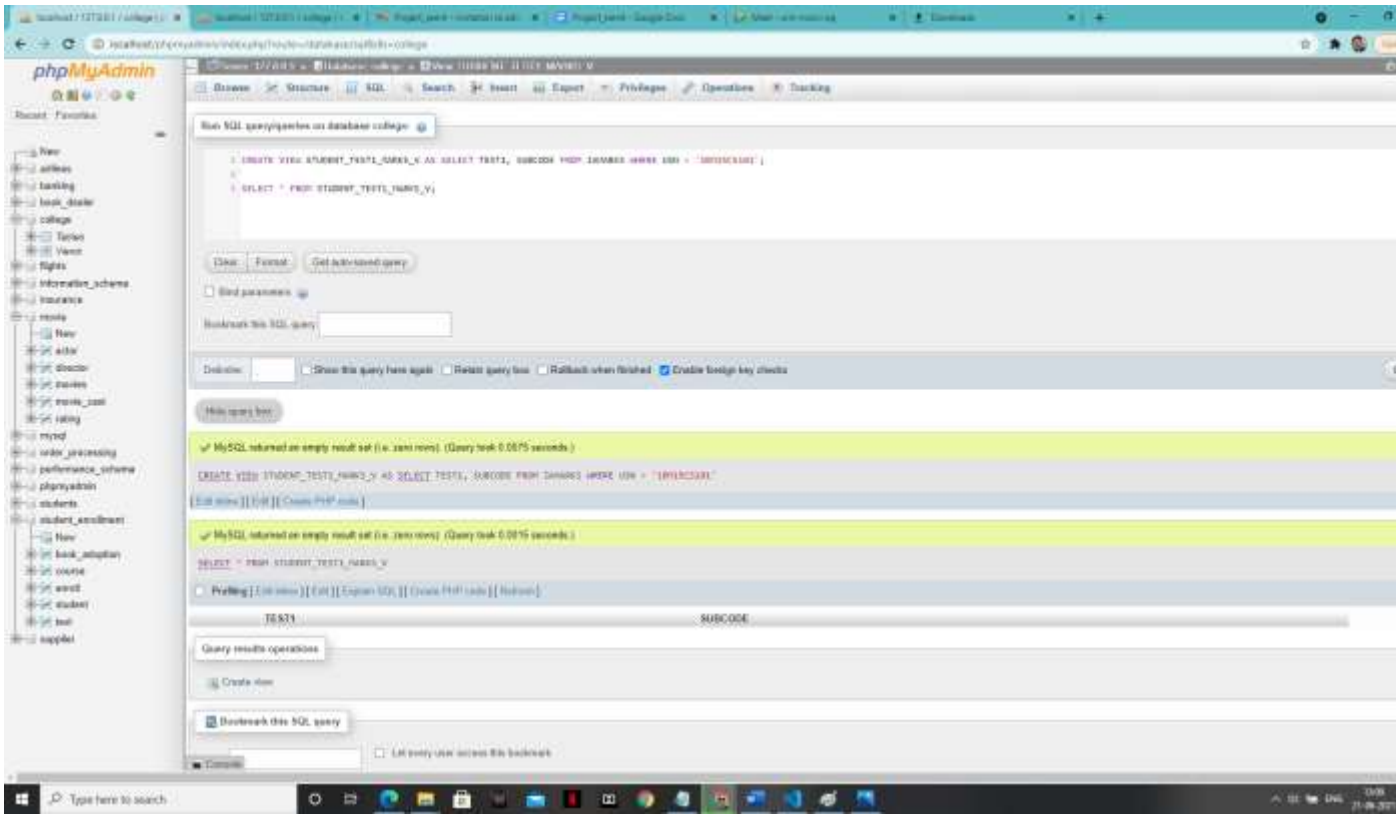
1:-



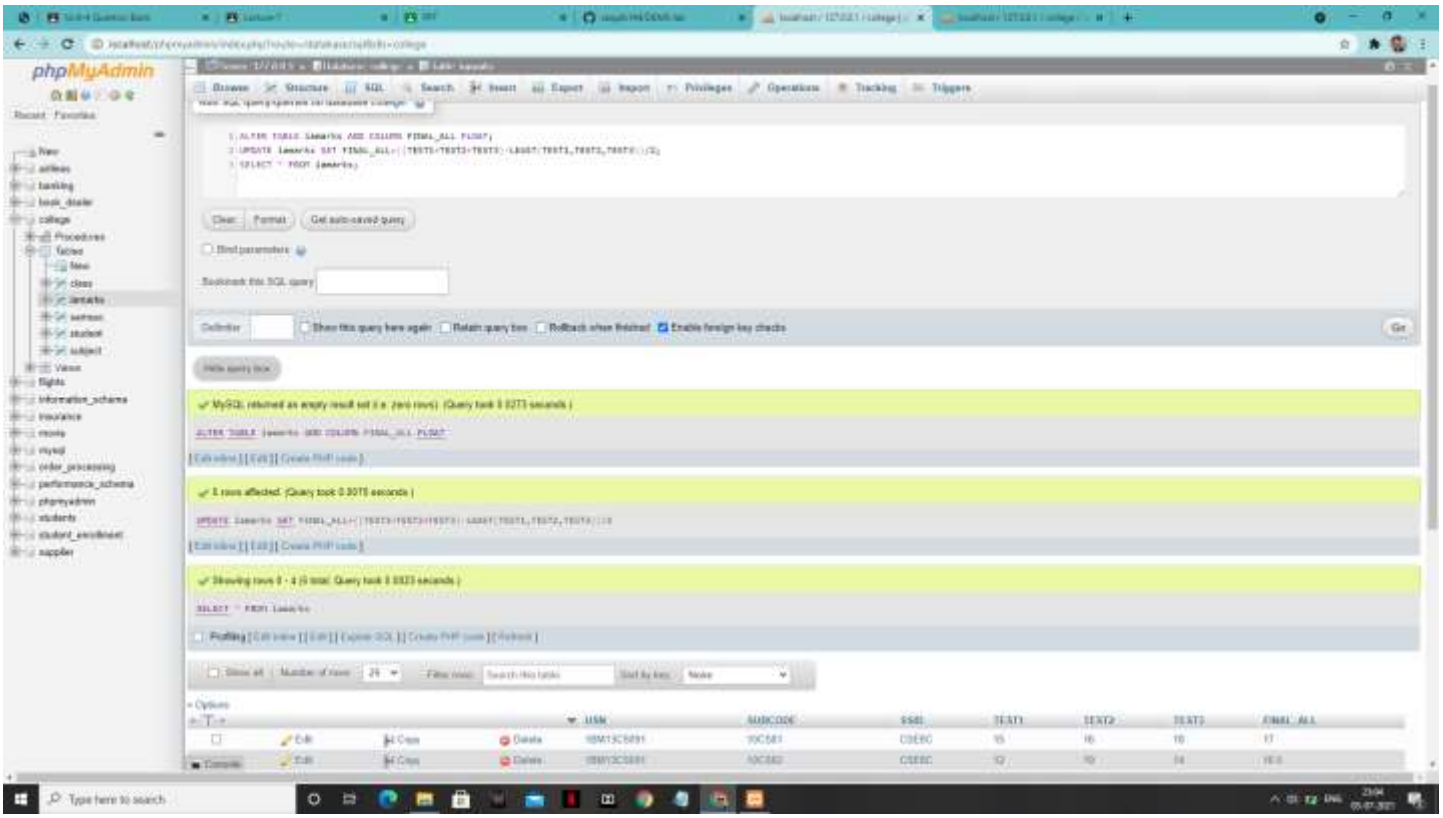
2:-

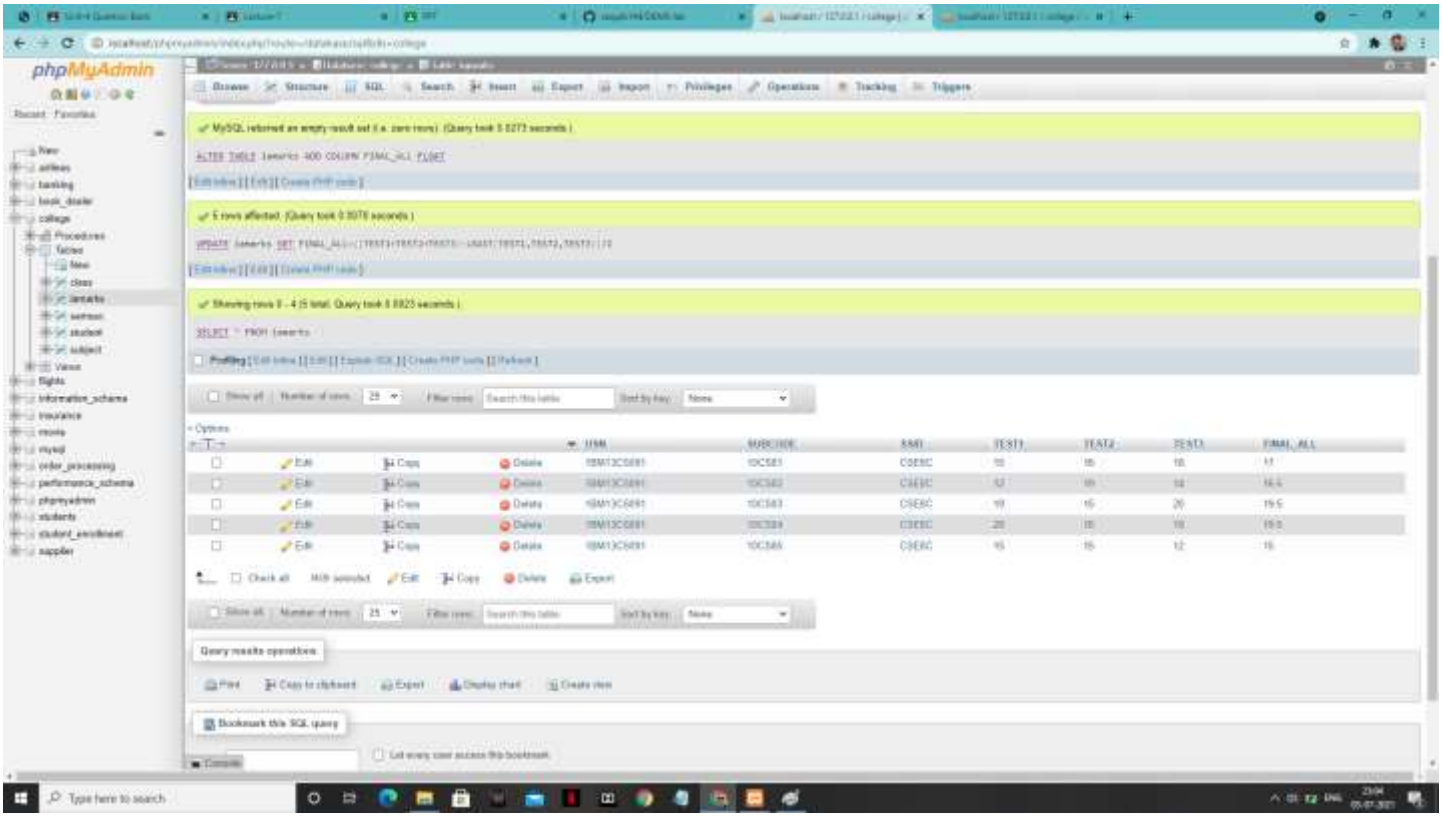


3:-

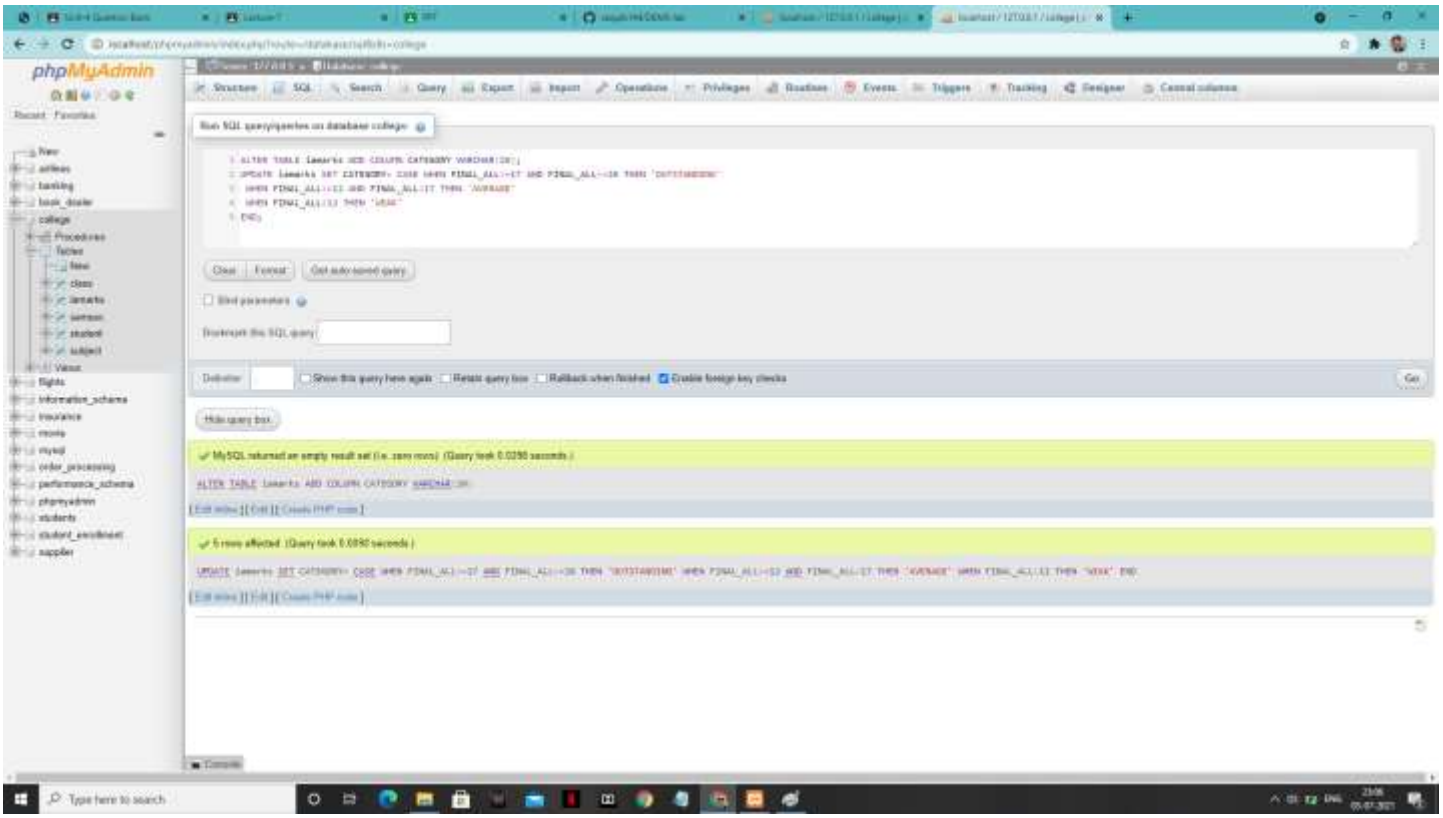


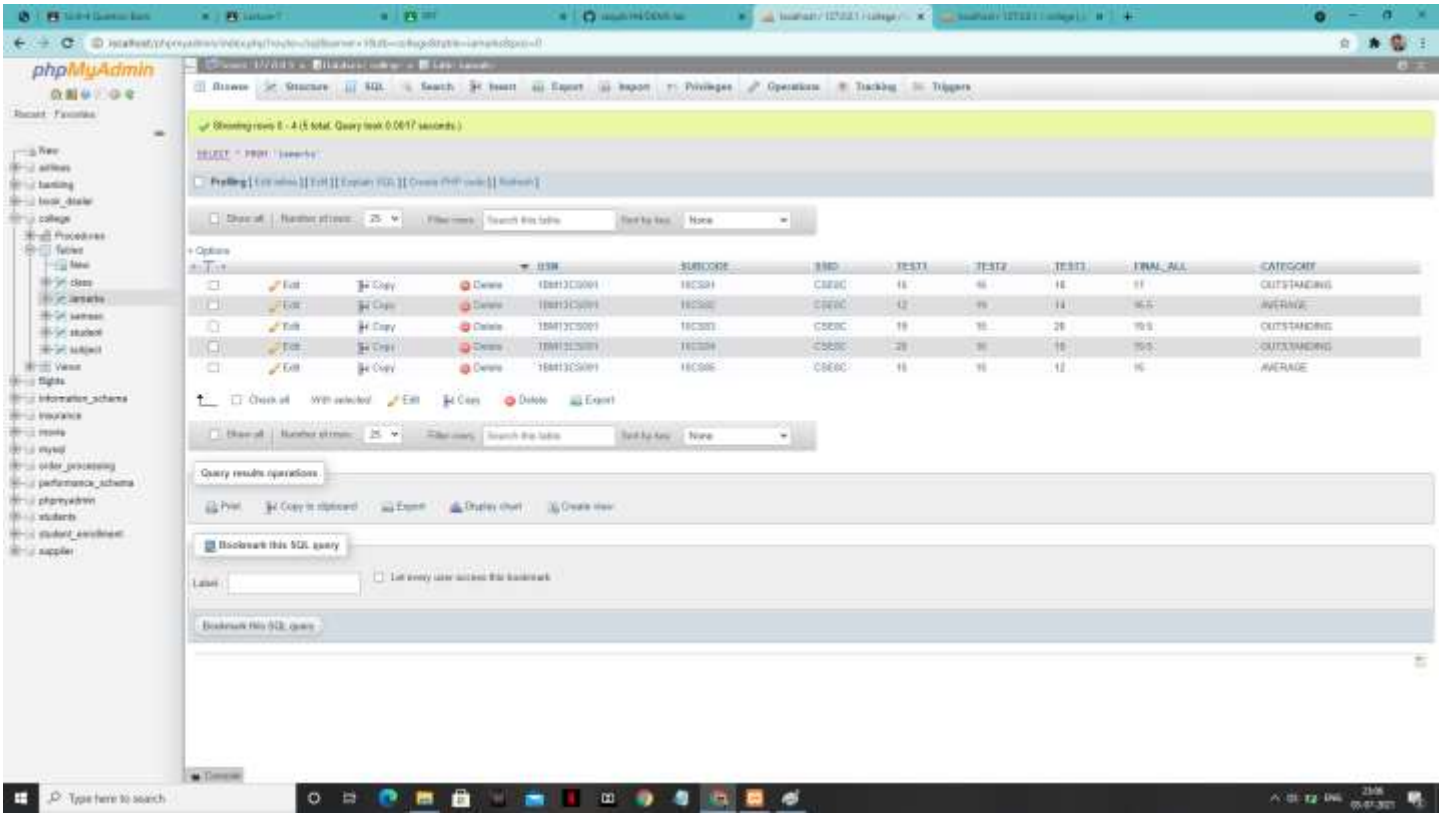
4:-





5:-


phpMyAdmin
ALTER TABLE lamarks ADD COLUMN CATEGORY VARCHAR(20);
UPDATE lamarks SET CATEGORY= CASE WHEN FINAL_ALL<=17 AND FINAL_ALL>=10 THEN 'OUTSTANDING'
WHEN FINAL_ALL<=11 AND FINAL_ALL>7 THEN 'AVERAGE'
WHEN FINAL_ALL<=7 THEN 'WEAK'
END;
MySQL returned an empty result set (i.e. zero rows). (Query took 0.0250 seconds.)
ALTER TABLE lamarks ADD COLUMN CATEGORY VARCHAR(20)
6 rows affected. (Query took 0.0090 seconds.)
UPDATE lamarks SET CATEGORY= CASE WHEN FINAL_ALL<=17 AND FINAL_ALL>=10 THEN 'OUTSTANDING' WHEN FINAL_ALL<=11 AND FINAL_ALL>7 THEN 'AVERAGE' WHEN FINAL_ALL<=7 THEN 'WEAK' END


phpMyAdmin
Showing rows 0 - 4 (5 total, Query took 0.0017 seconds.)
SELECT * FROM `lamarks`
Query results operations
Bookmark this SQL query