**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.**

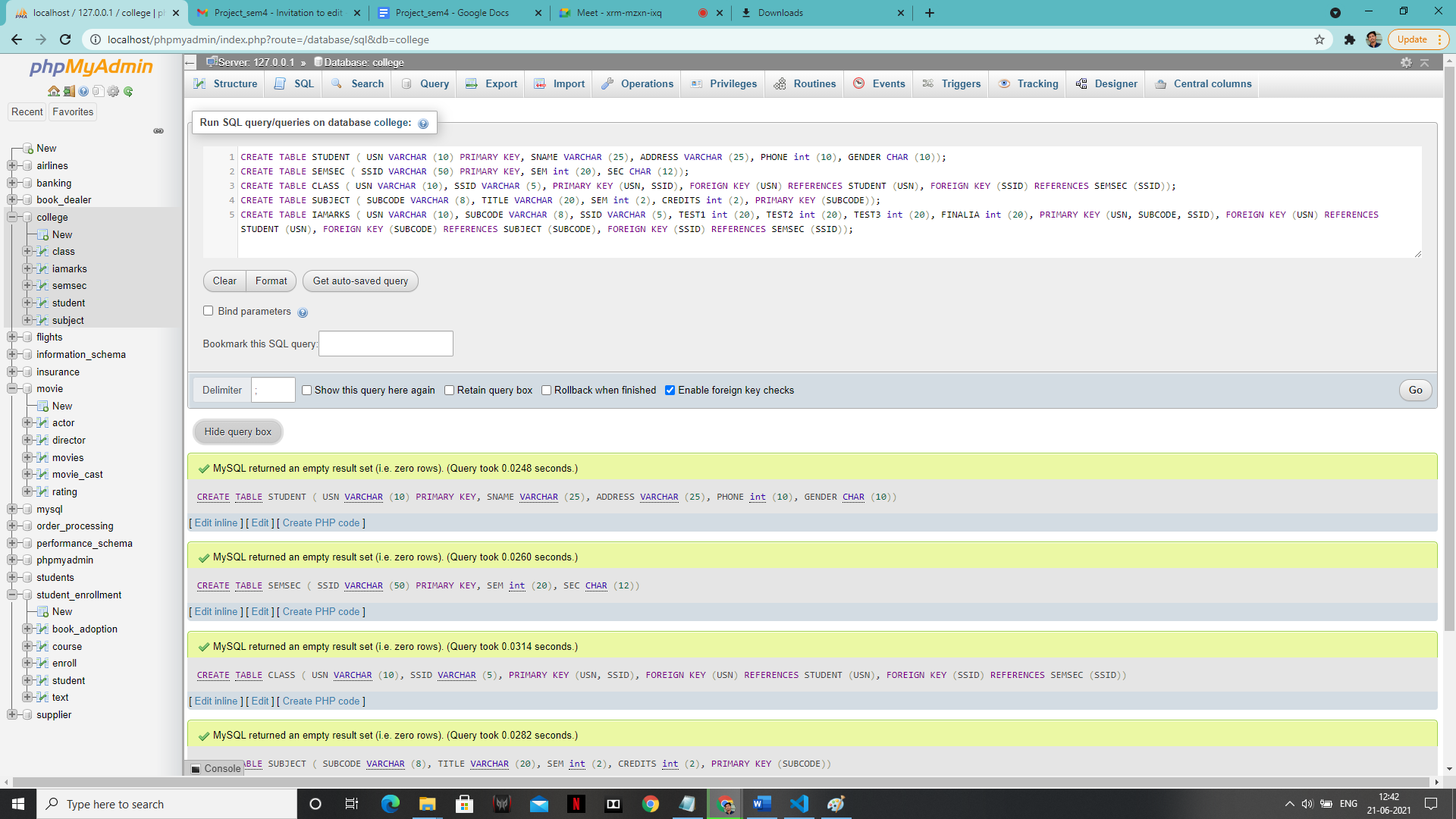
**ii. Compute the total number of male and female students in each semester and in each section.**

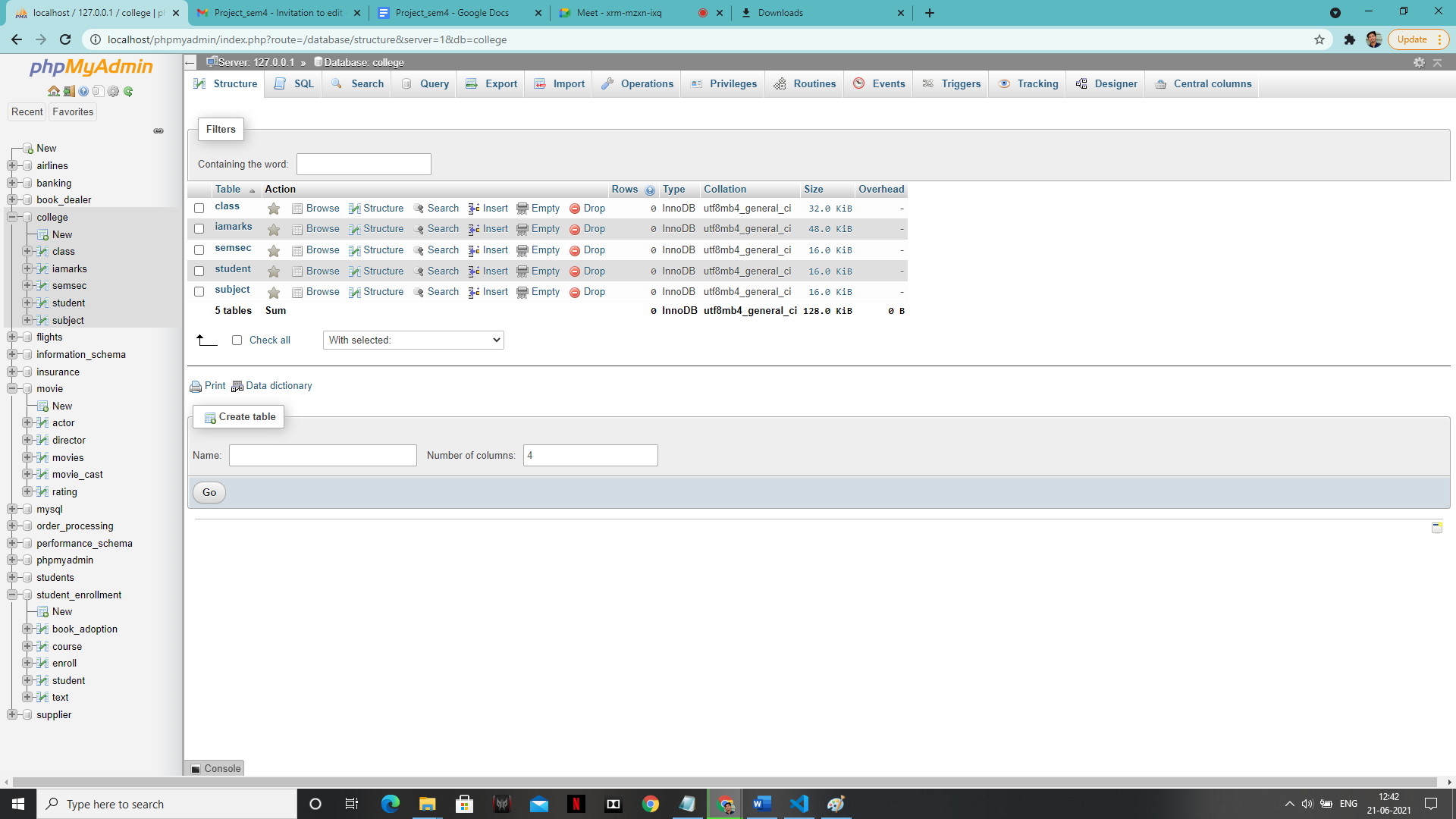
**iii. Create a view of Test1 marks of student USN ‘22’ in all subjects.**

**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.**

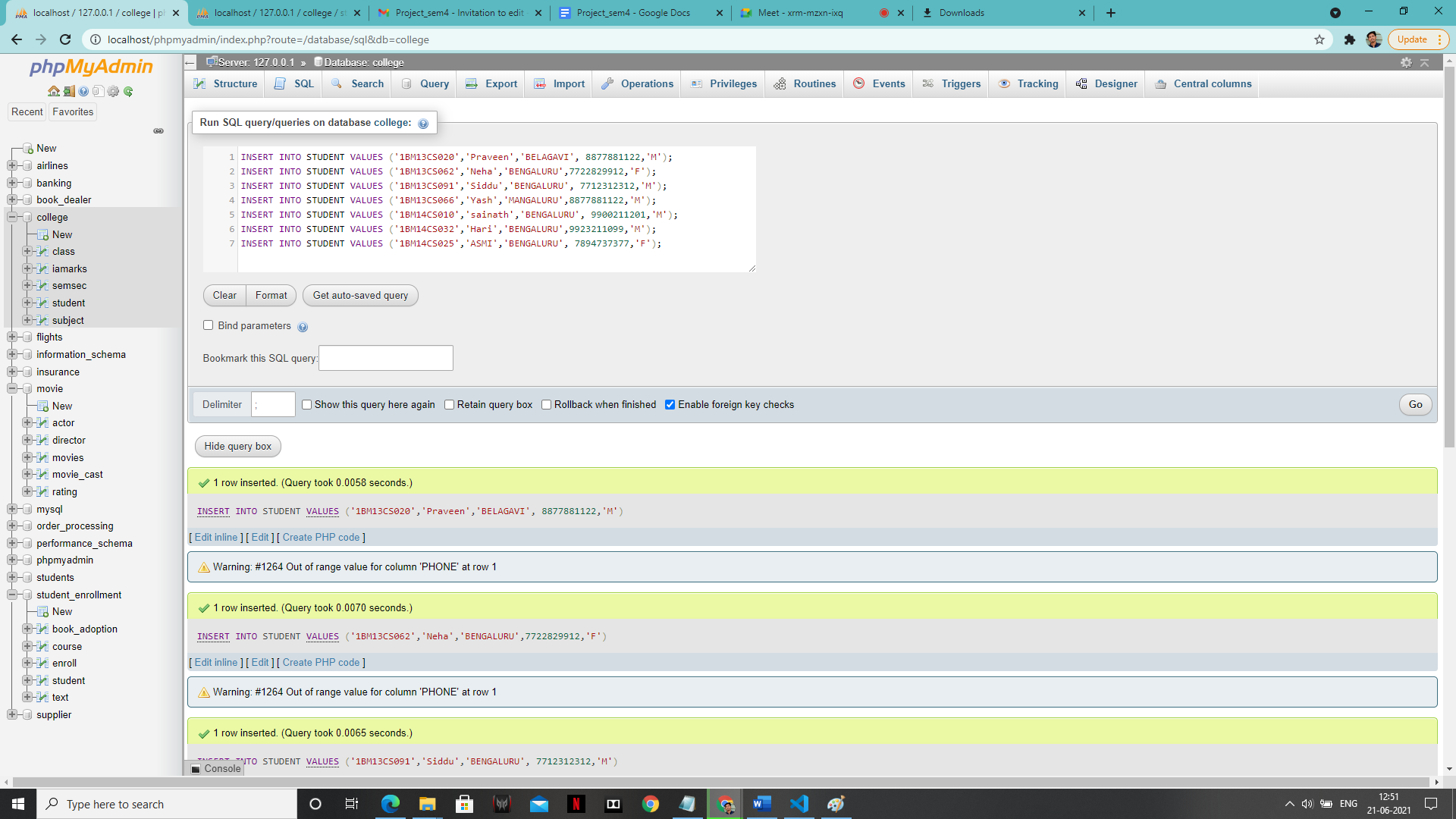
**Create table:-**

****

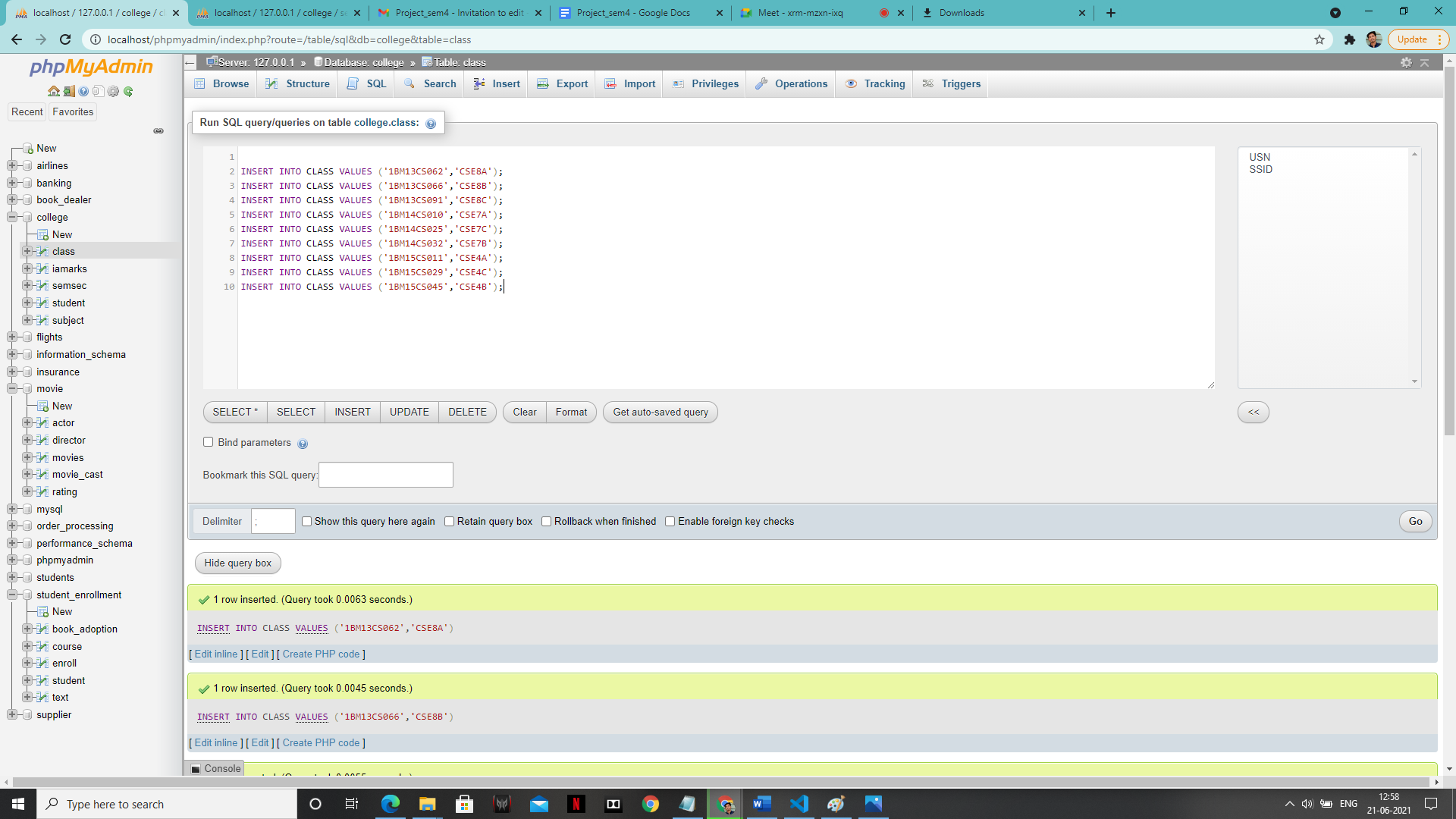
****

1. **Enter tuples for each relation.**

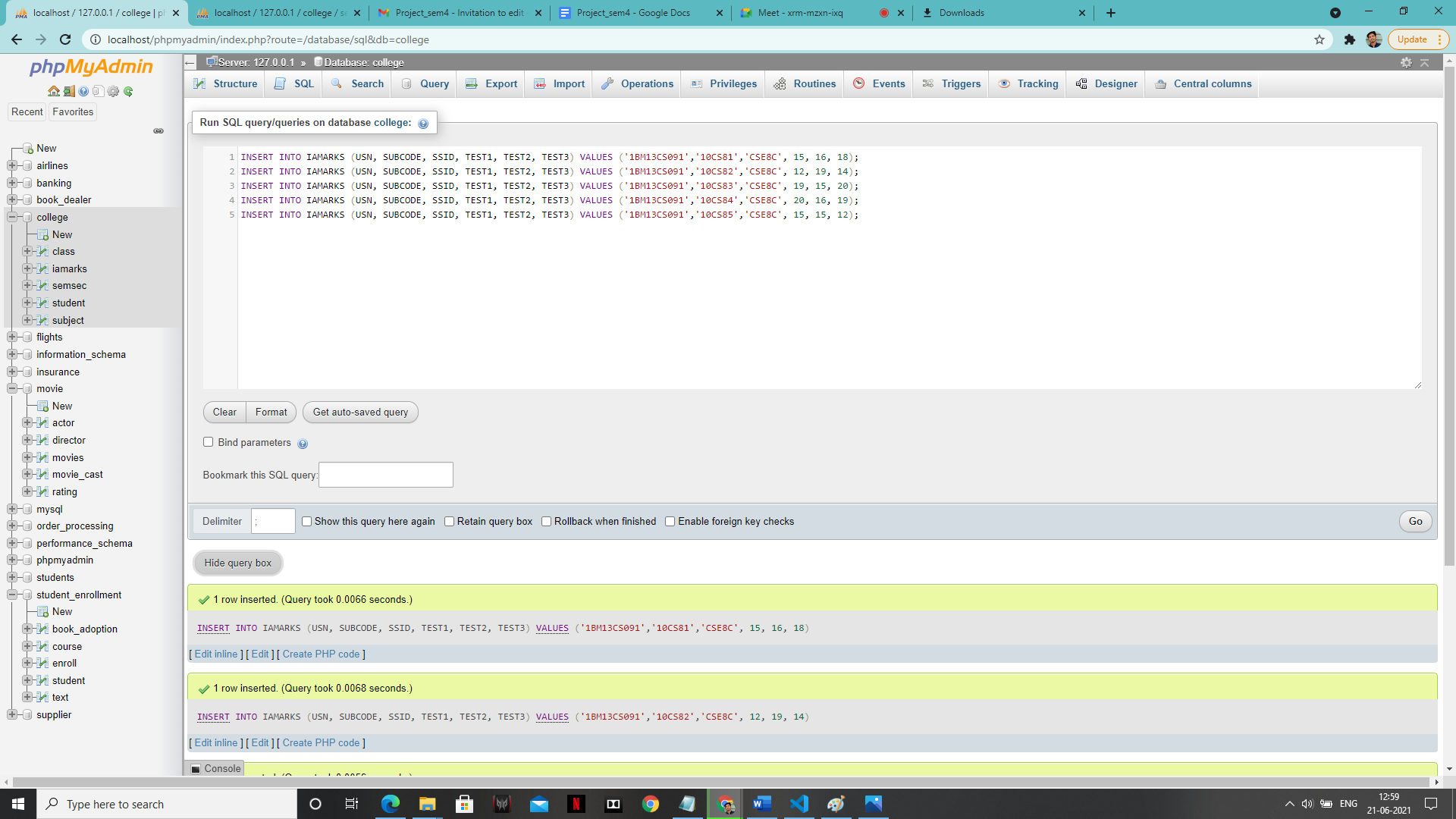
**‘STUDENT’ table:**

****

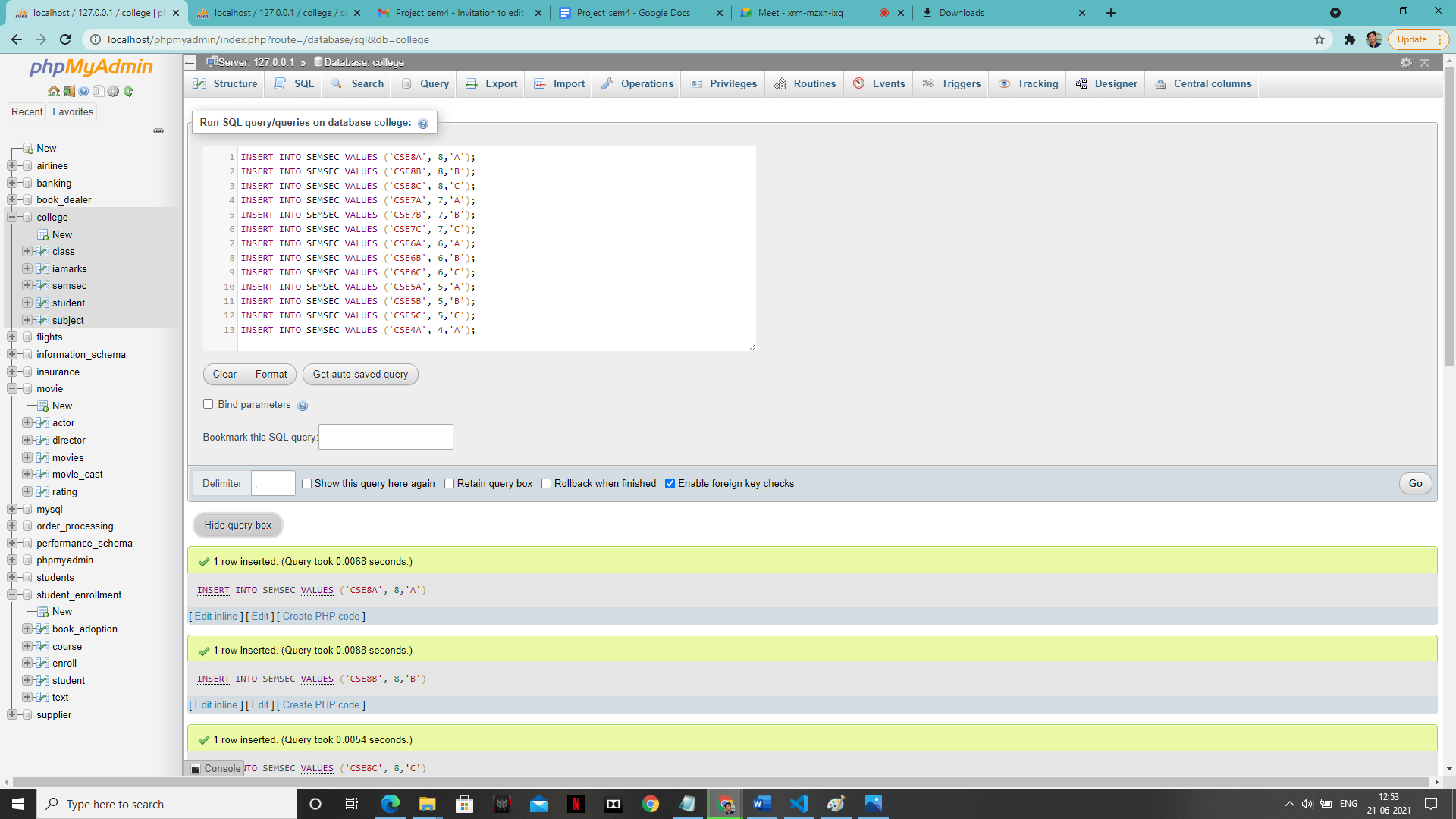
**‘Class’ table:**

****

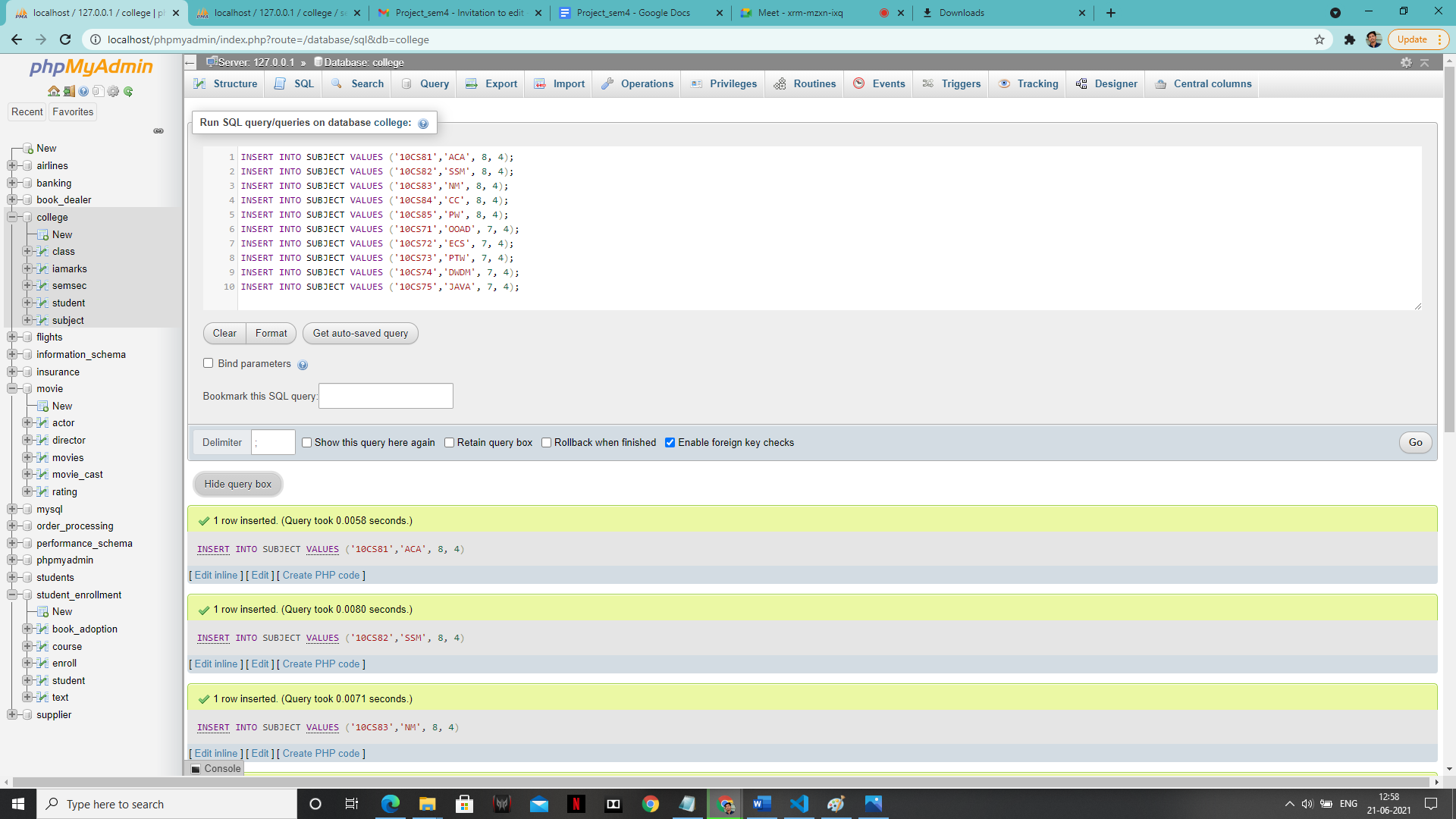
**‘Marks’ table:**

****

**‘semsec’ value: -**

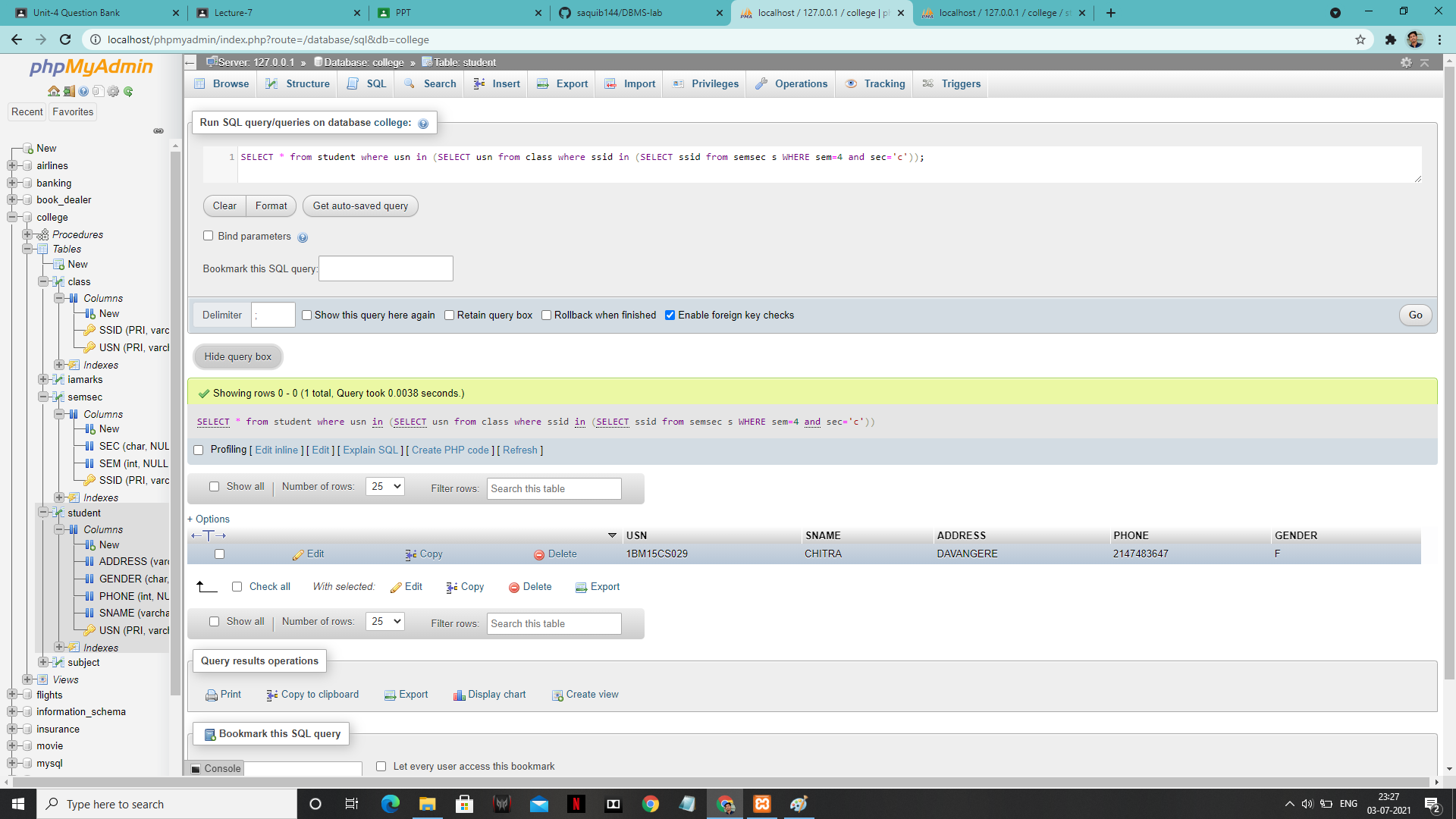
****

**‘subject’ table:**

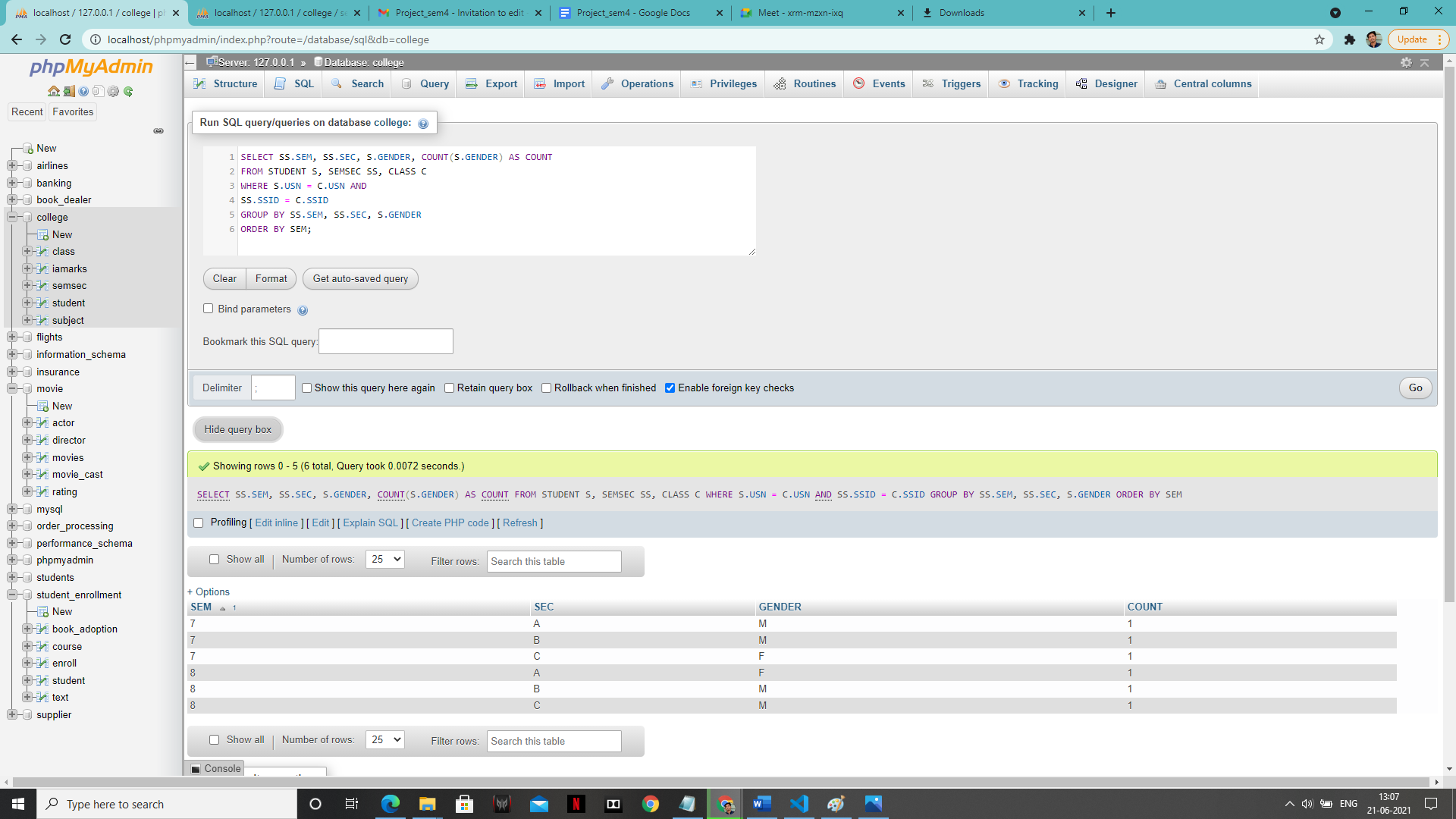
****

**SOLUTION**

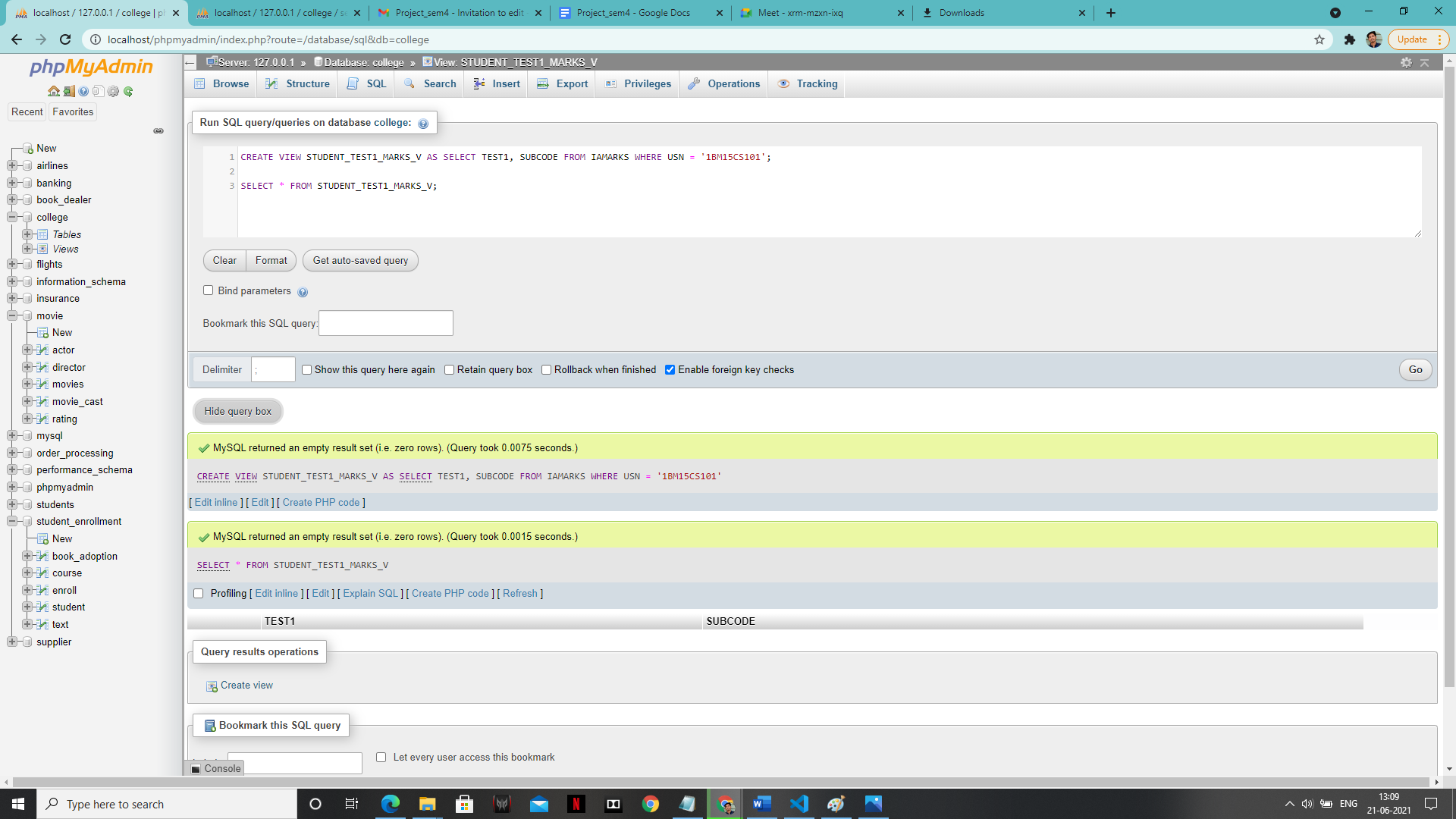
**1:-**

****

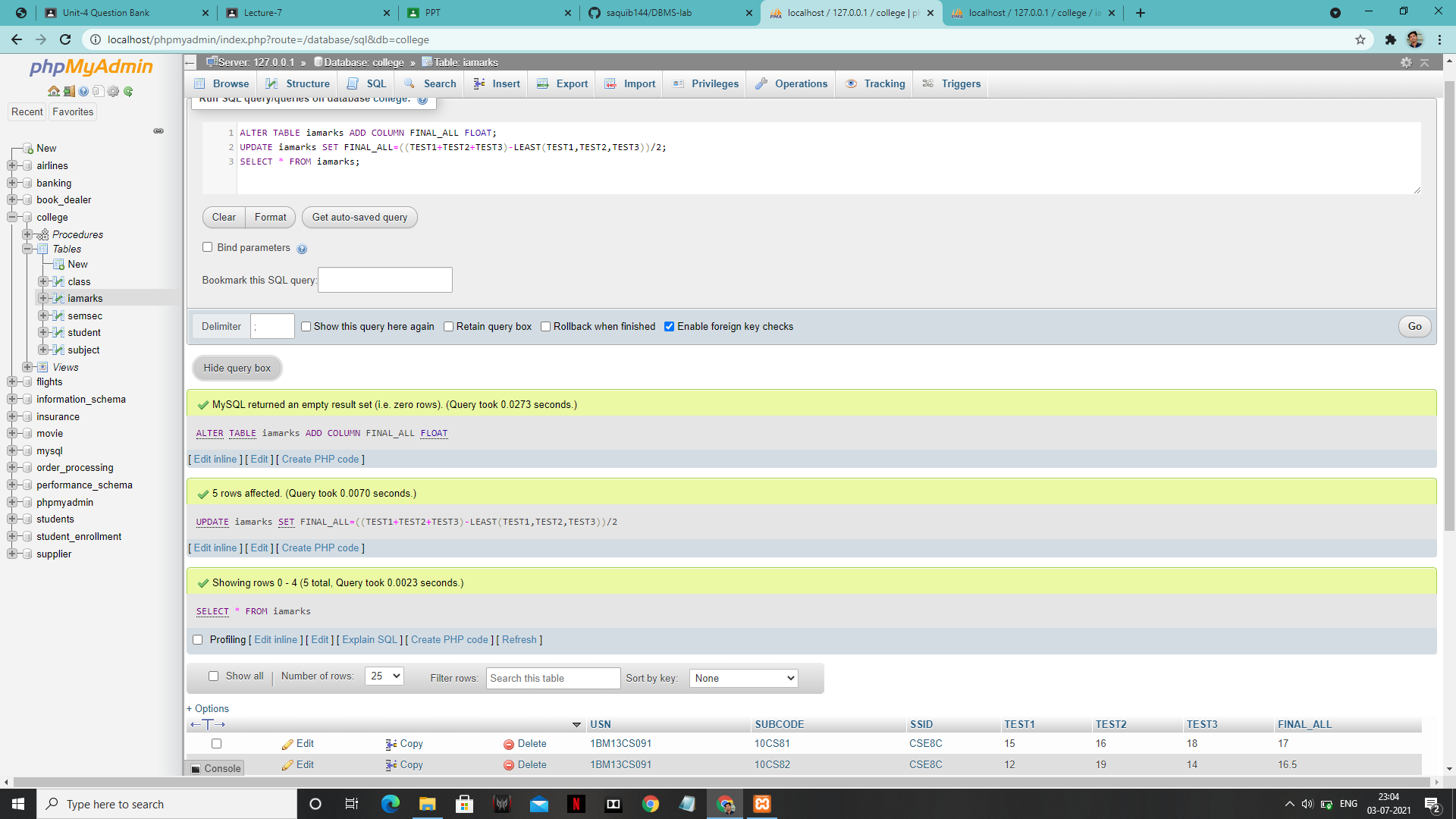
**2:-**

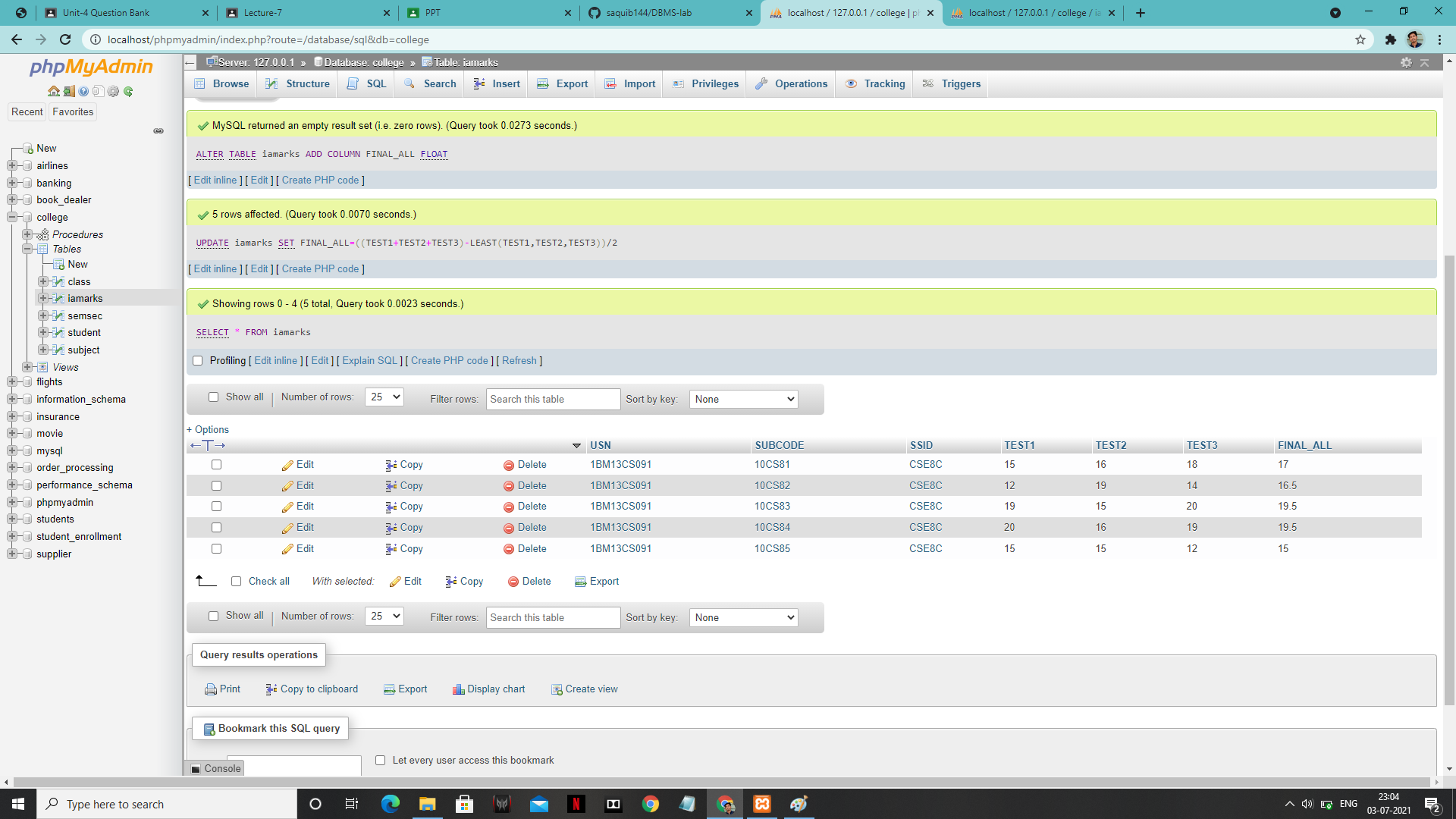
****

**3:-**

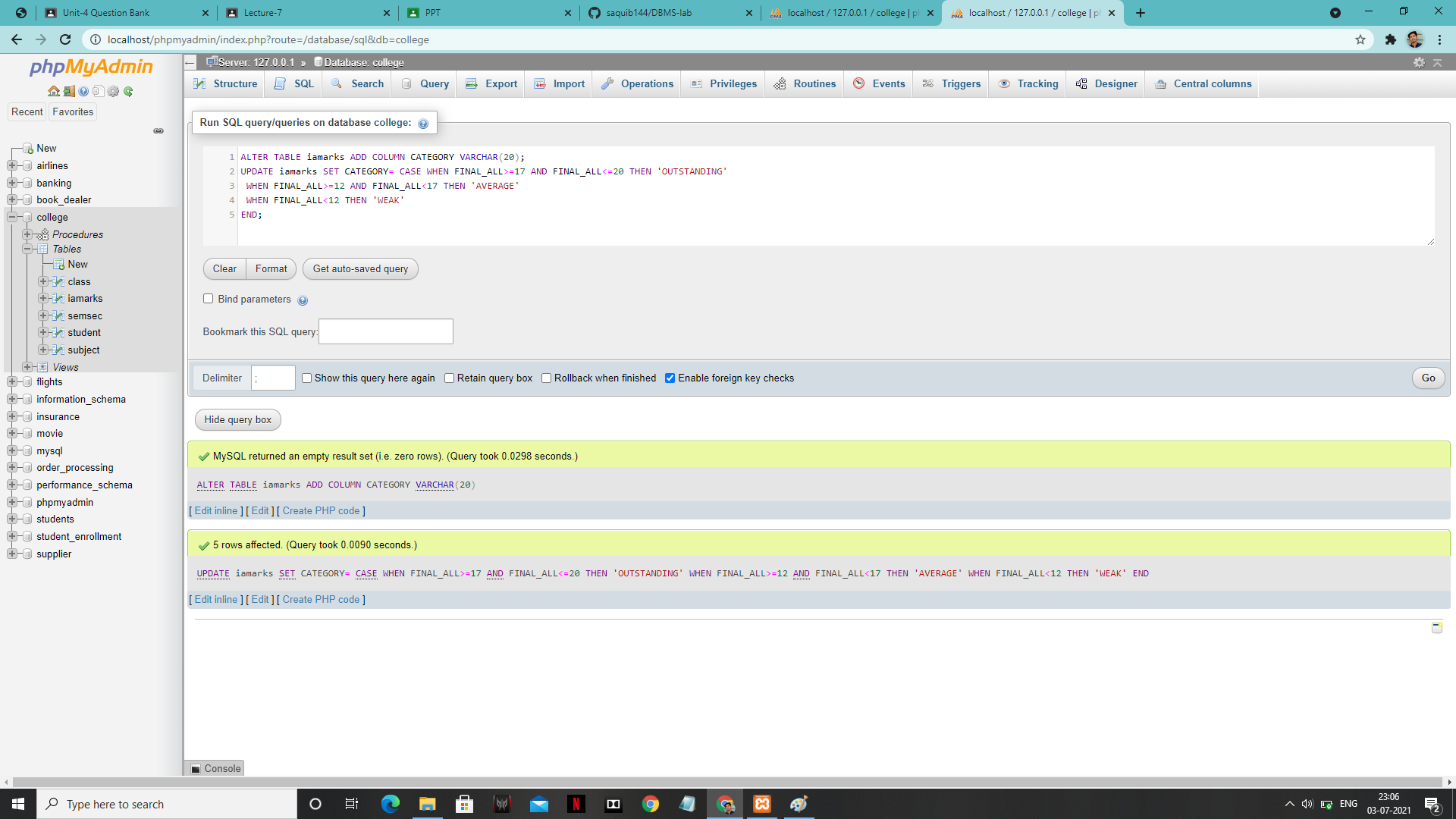
****

**4:-**

****

****

**5:-**

****

