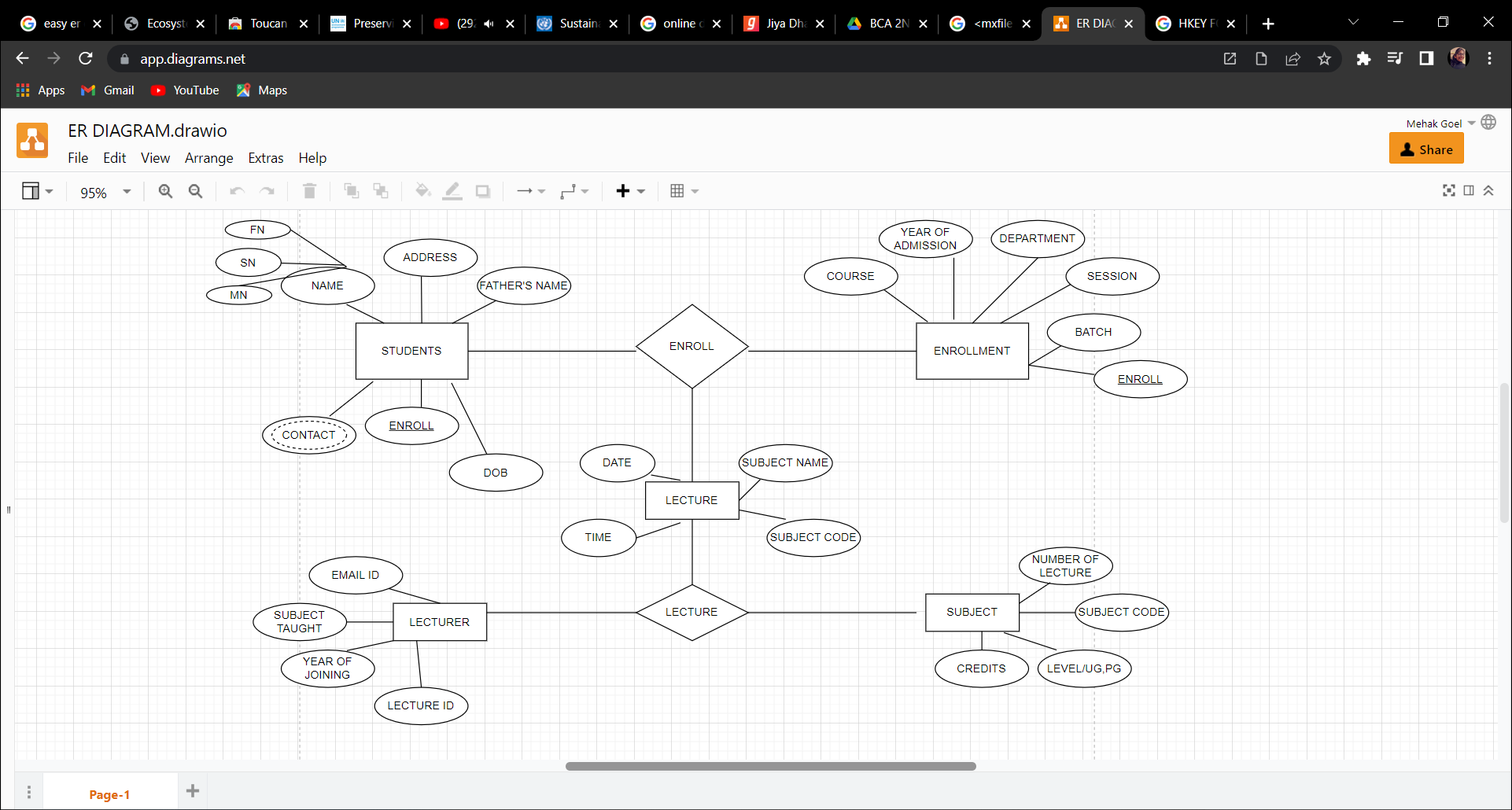
DBMS

ER DIAGRAM



**1.Create a Database and name as College1.**

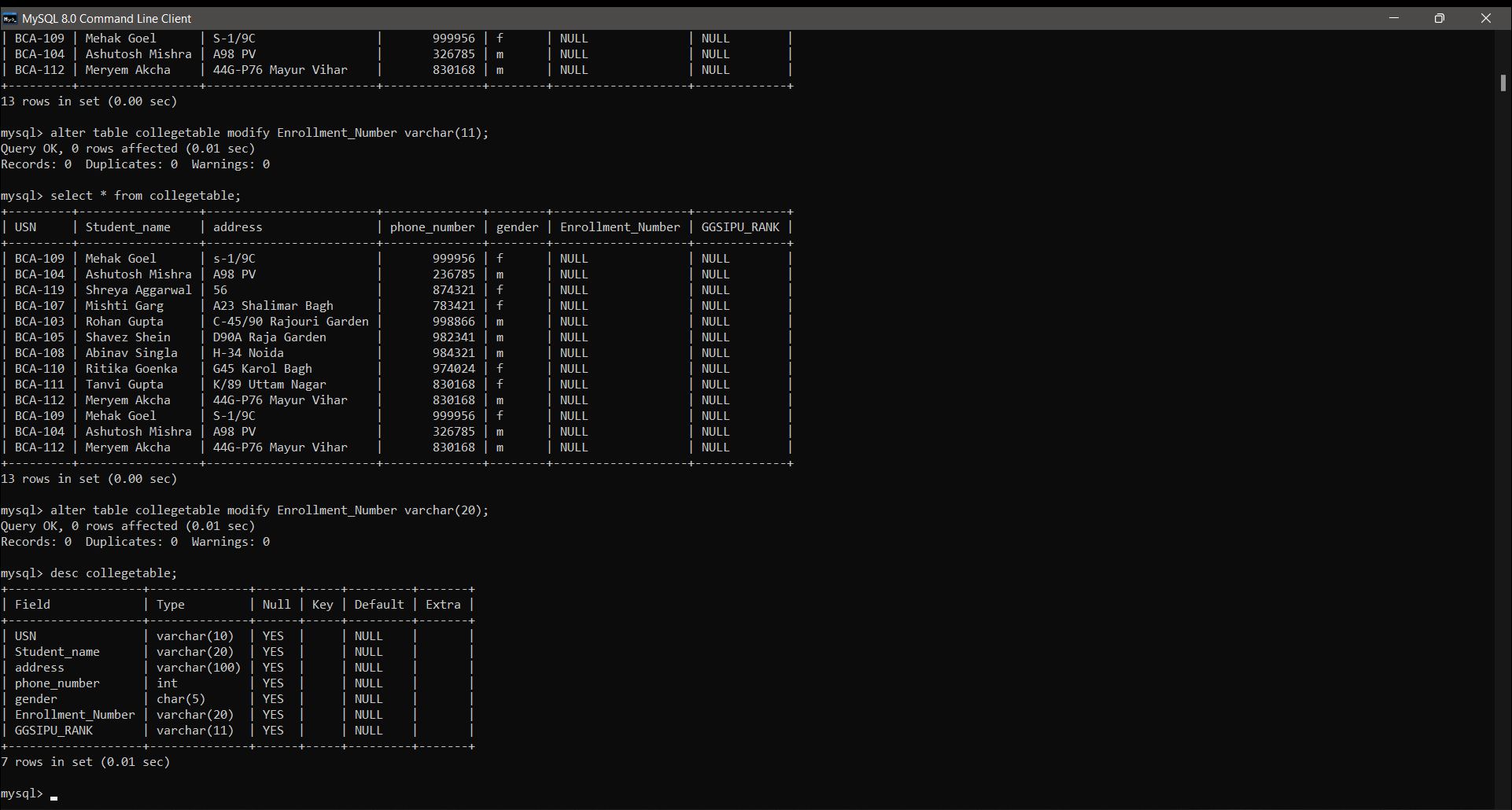
**Query:- Create database ;**

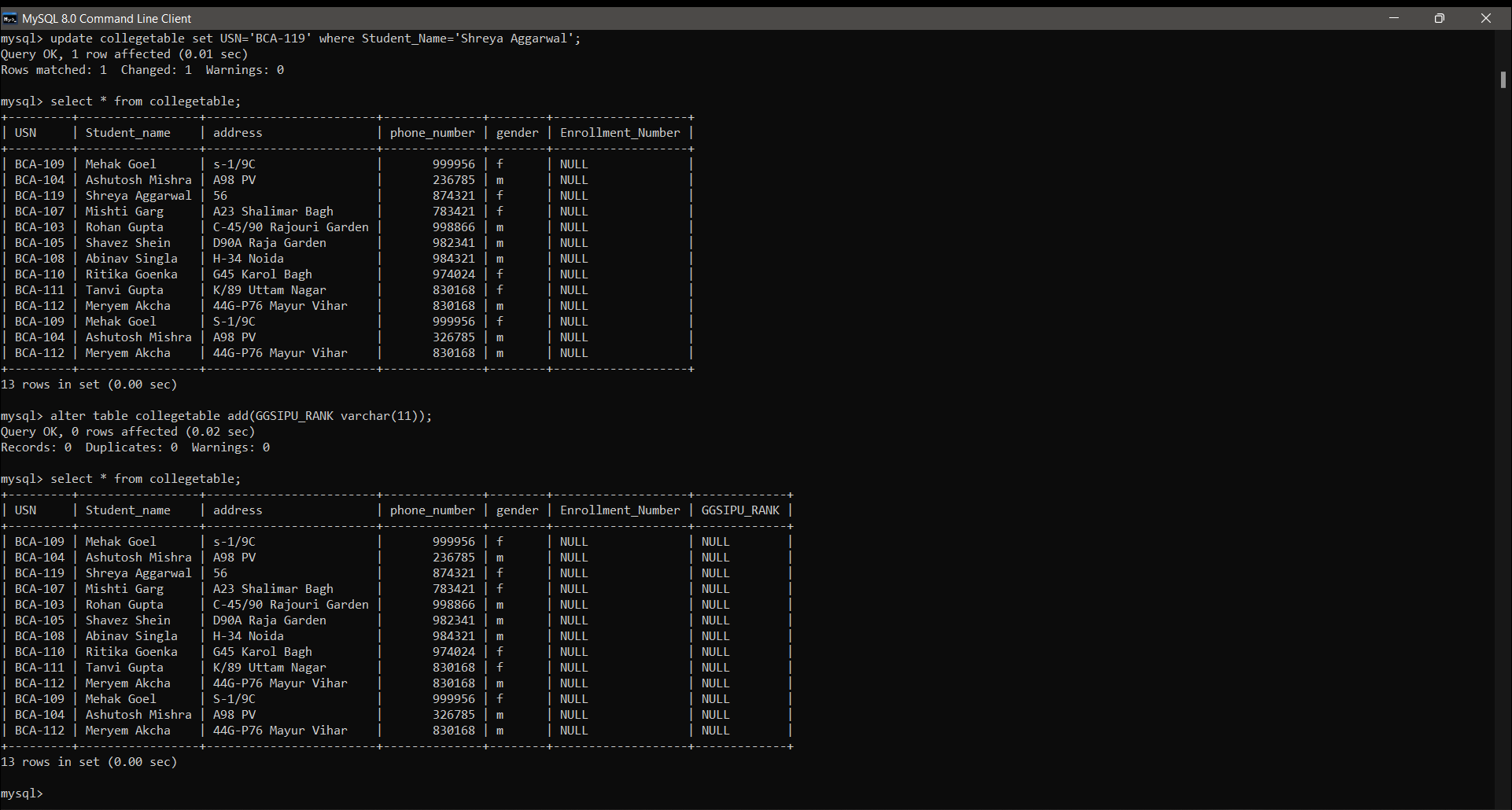
**Create database college;**

**2.Write a query to create a table named as student.**

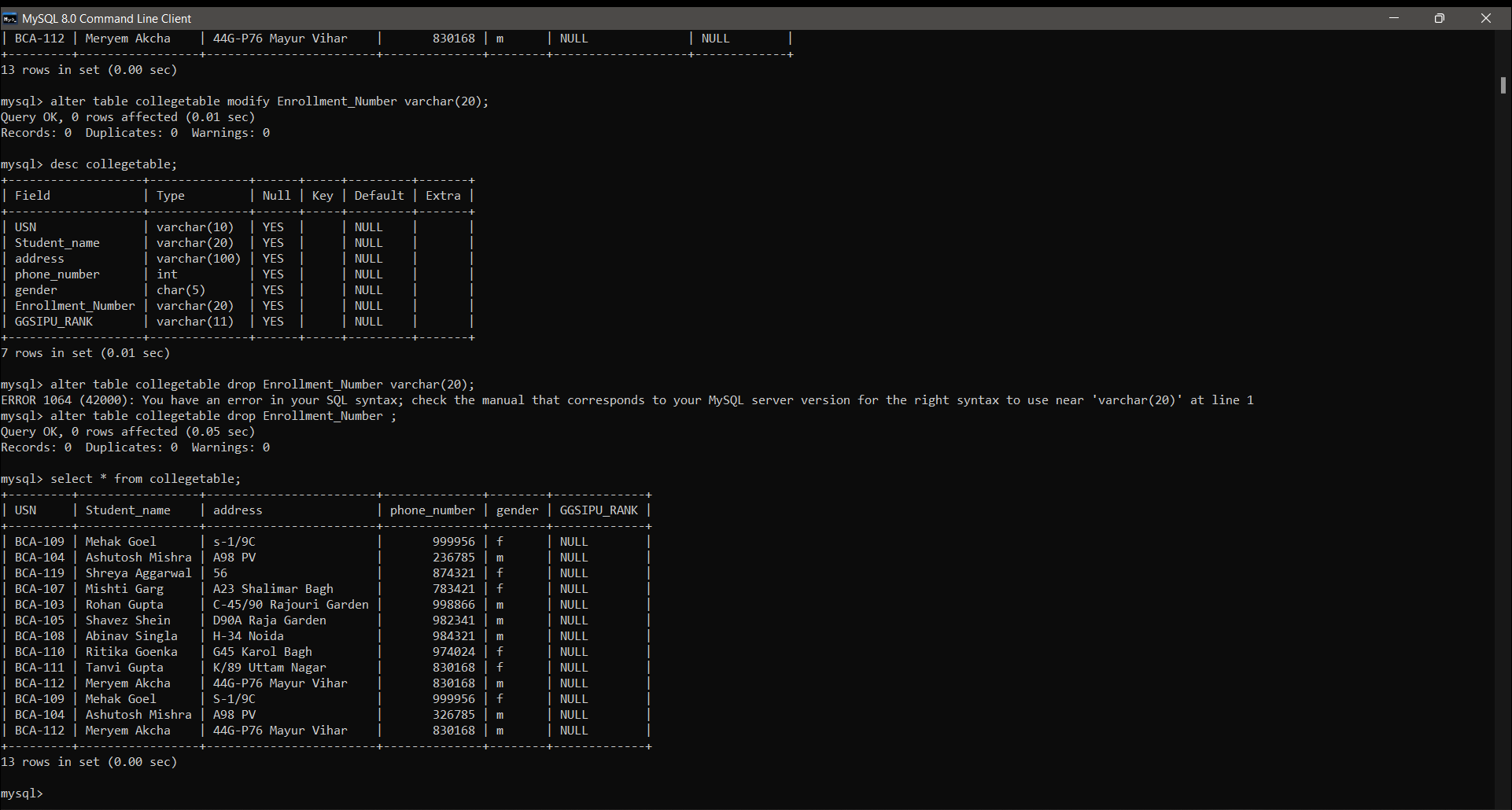
**Create table ( type, type….)**

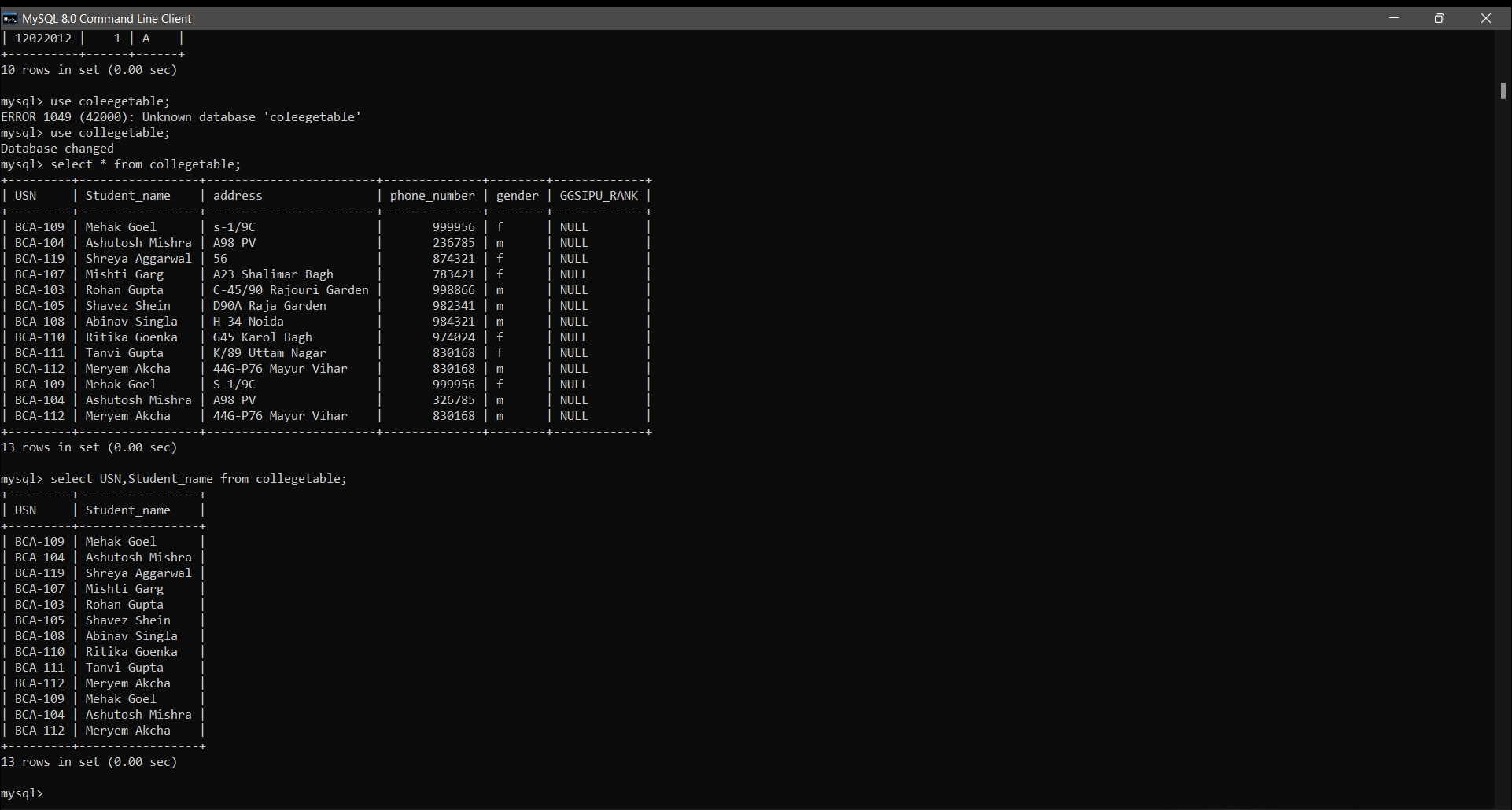
3.ALTER: Change the size of a particular column.



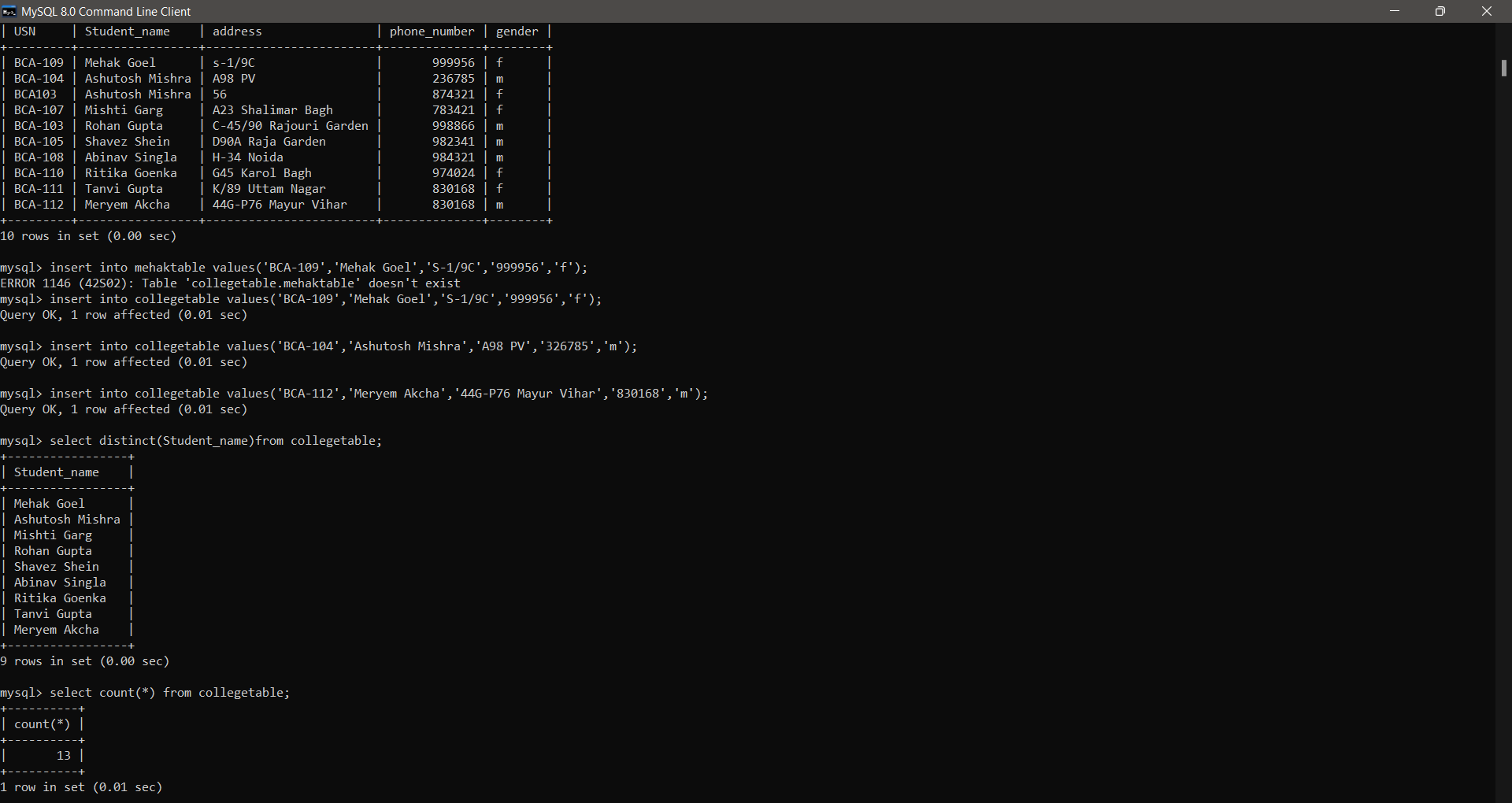
.Write a query to add a new column in a existing table. Alter table add( );

ALTER: Remove a column from the table.

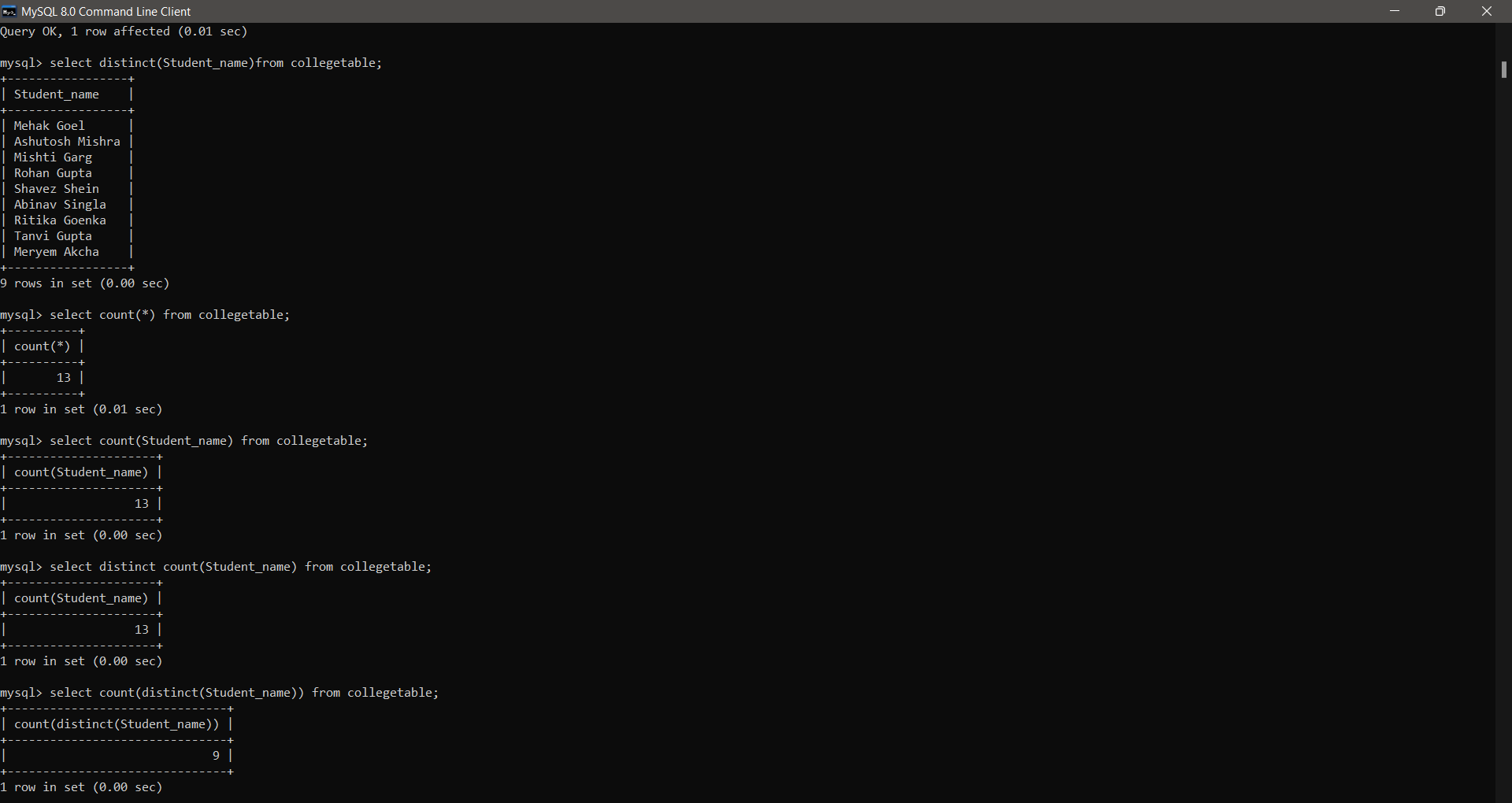




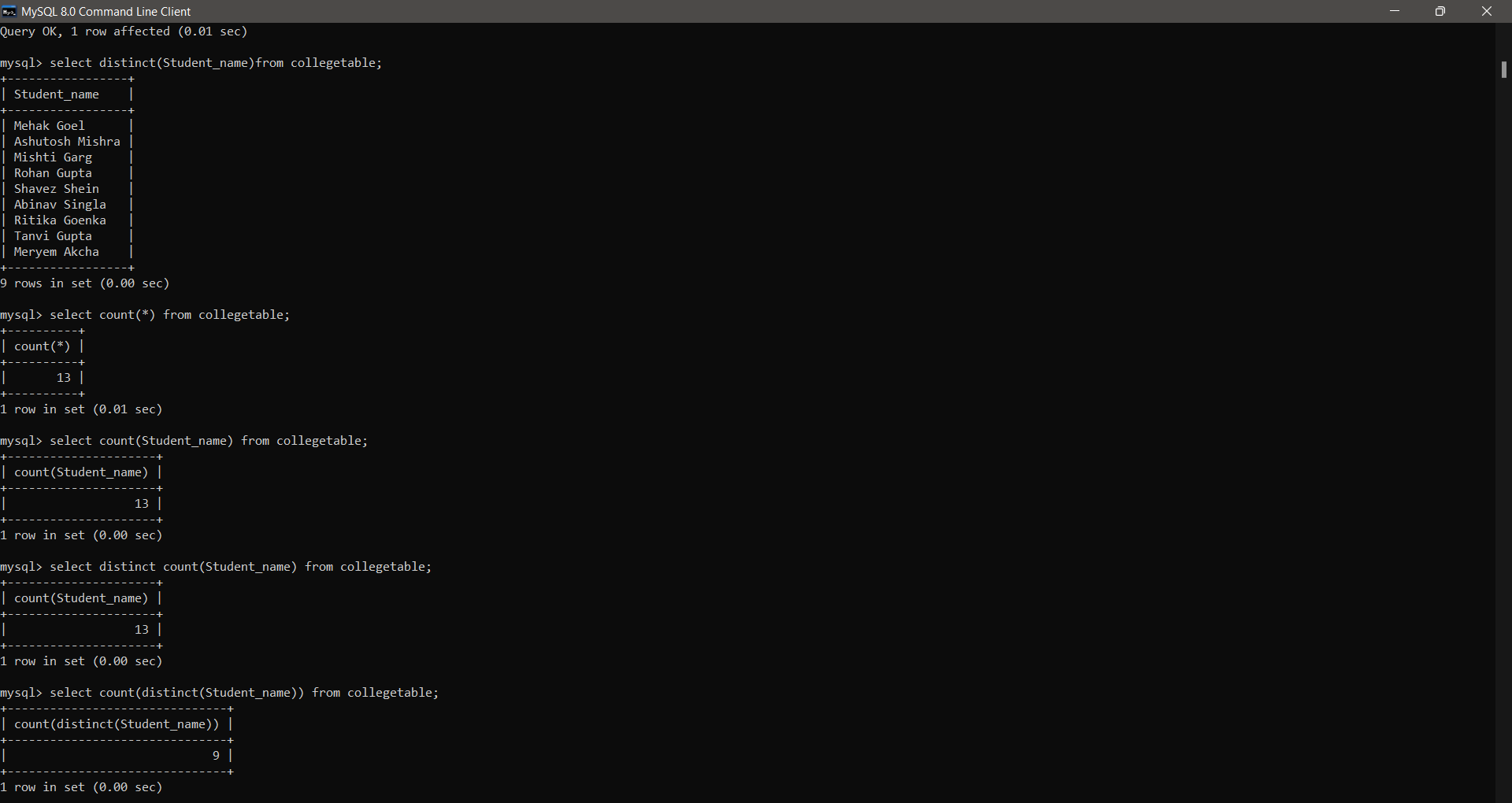
4.Distinct Column



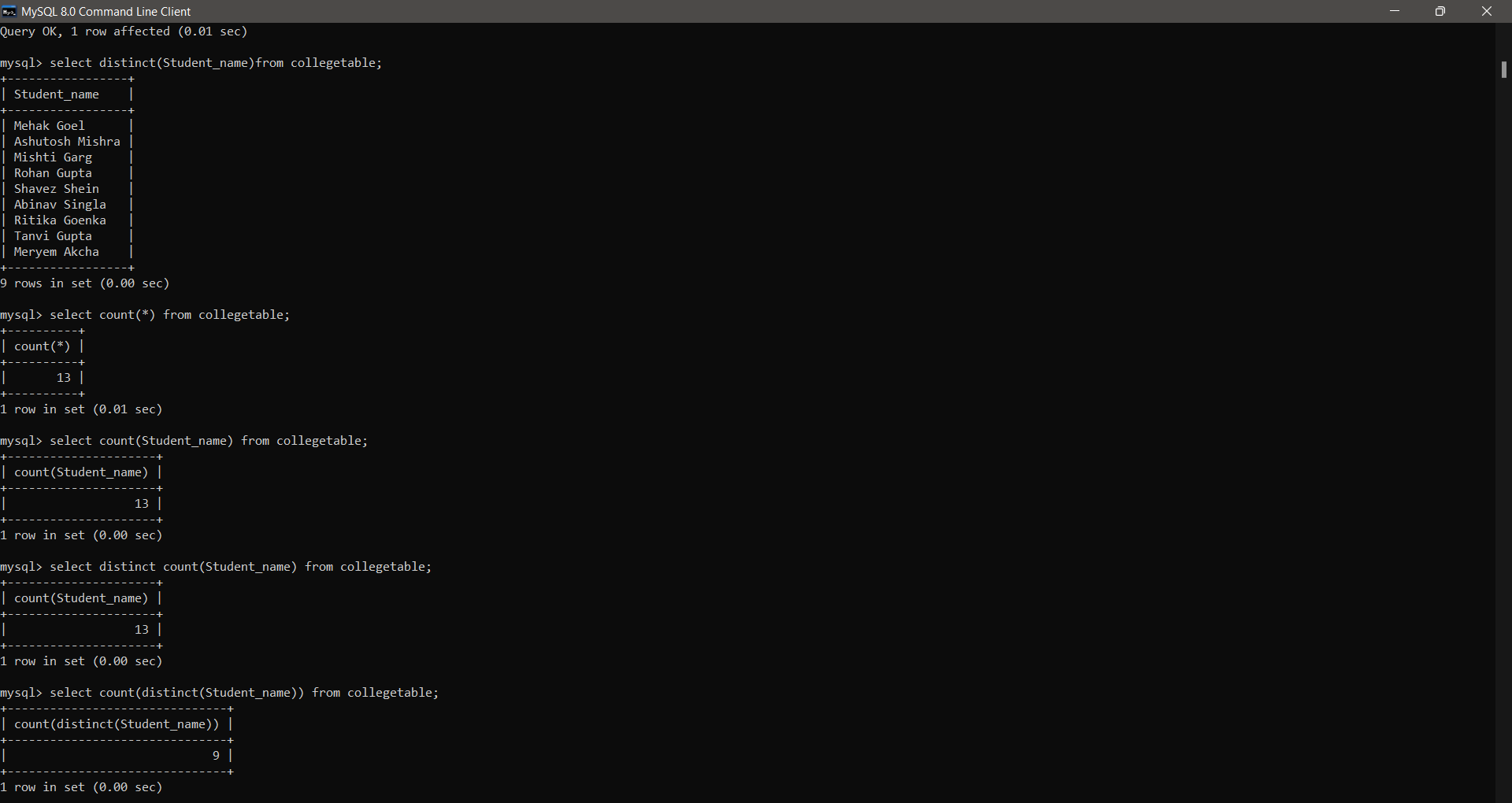
* Count\*



* Count column



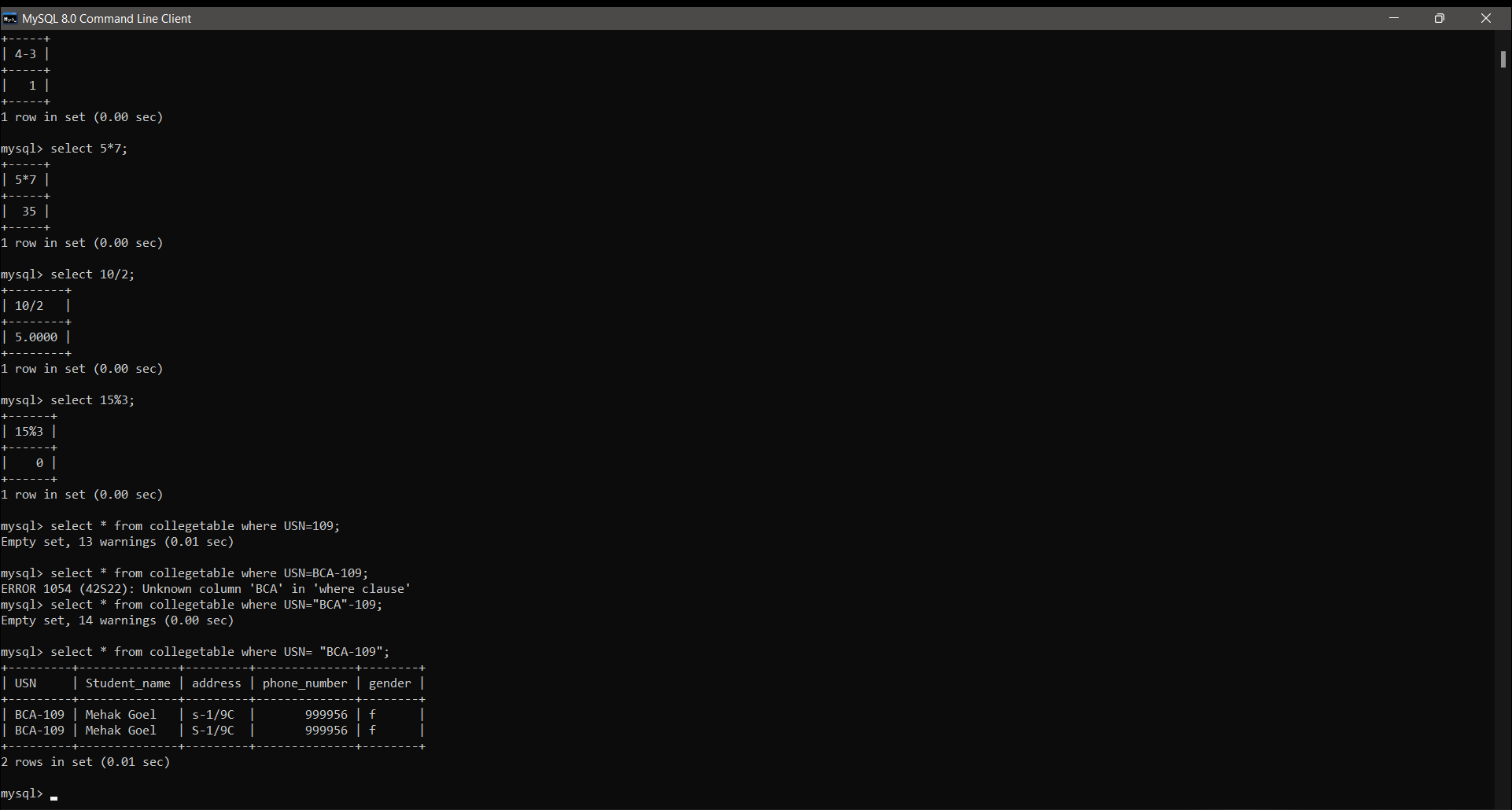
* Distinct count



5.Assignment Operator

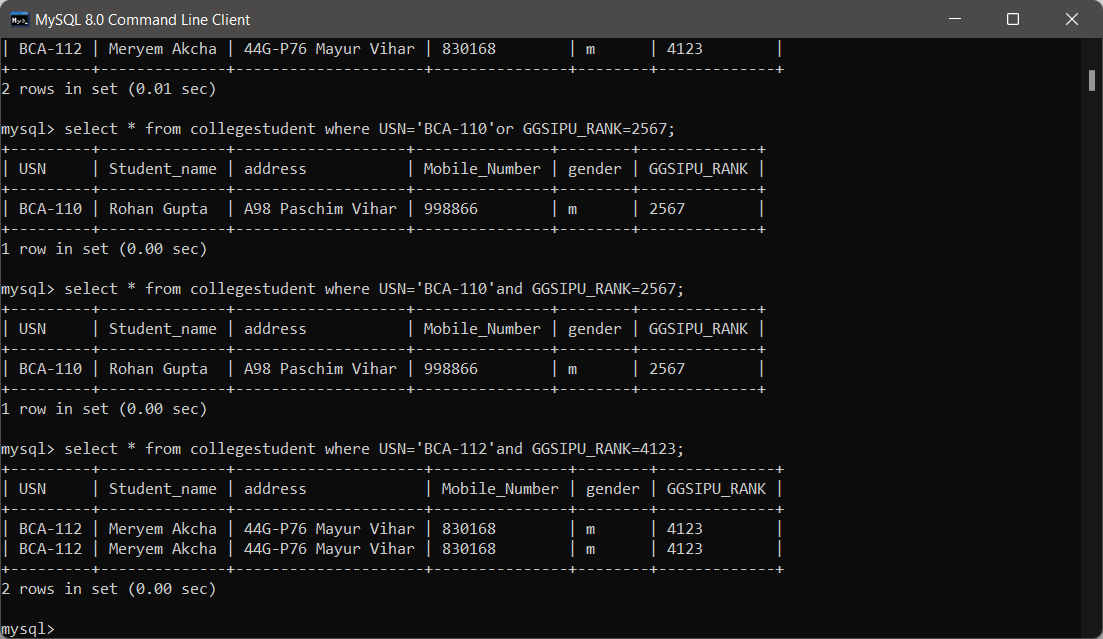


* Use Of Where Clause

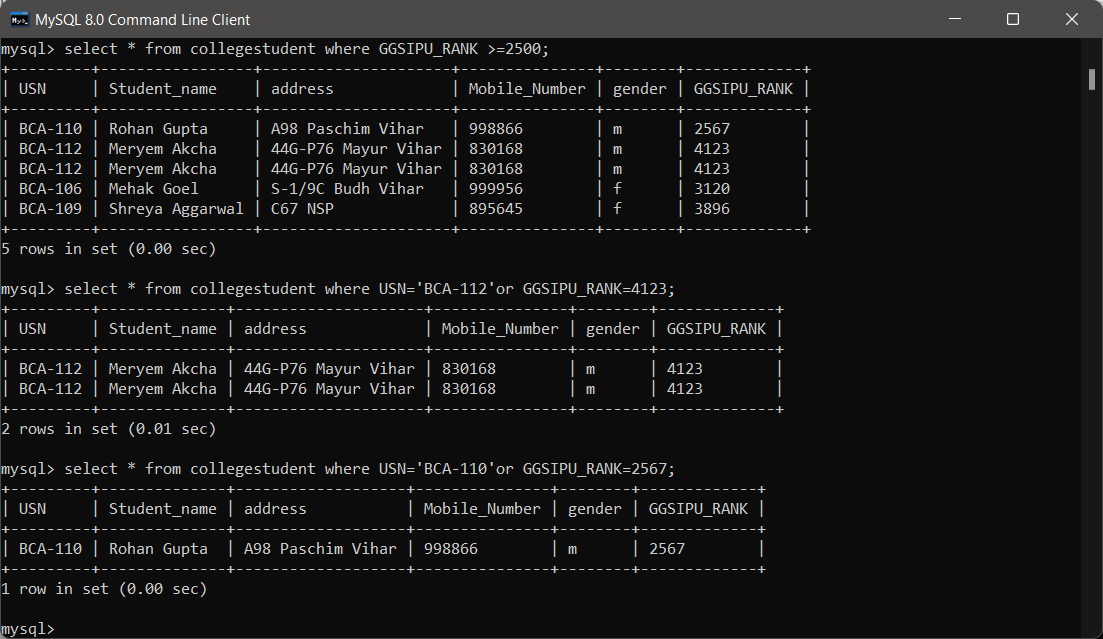


6.LOGICAL OPERATOR

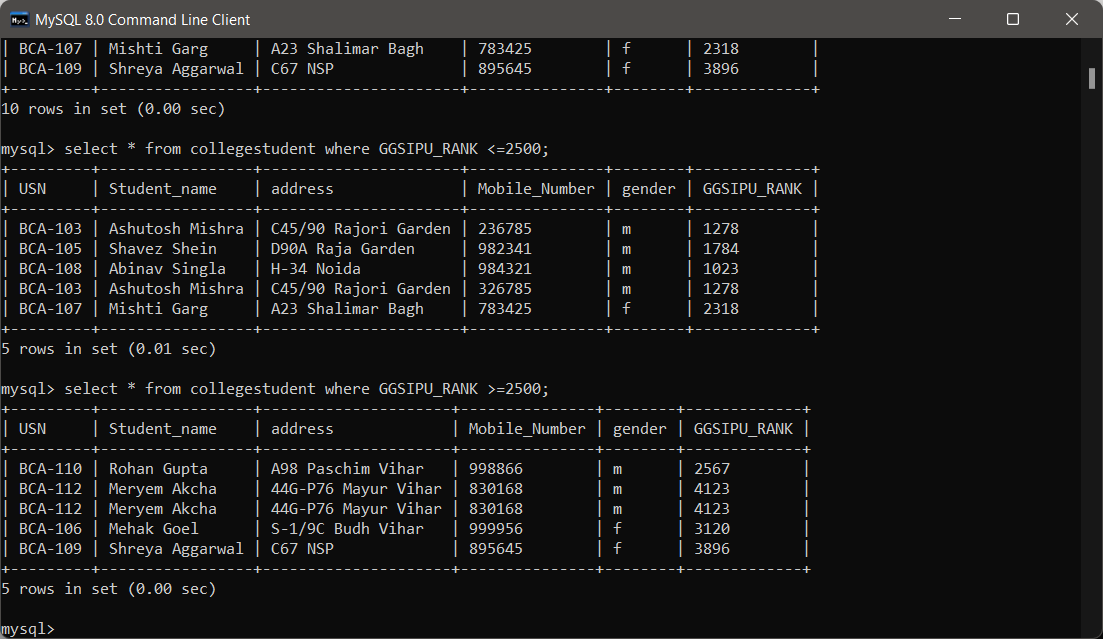
* And Operator



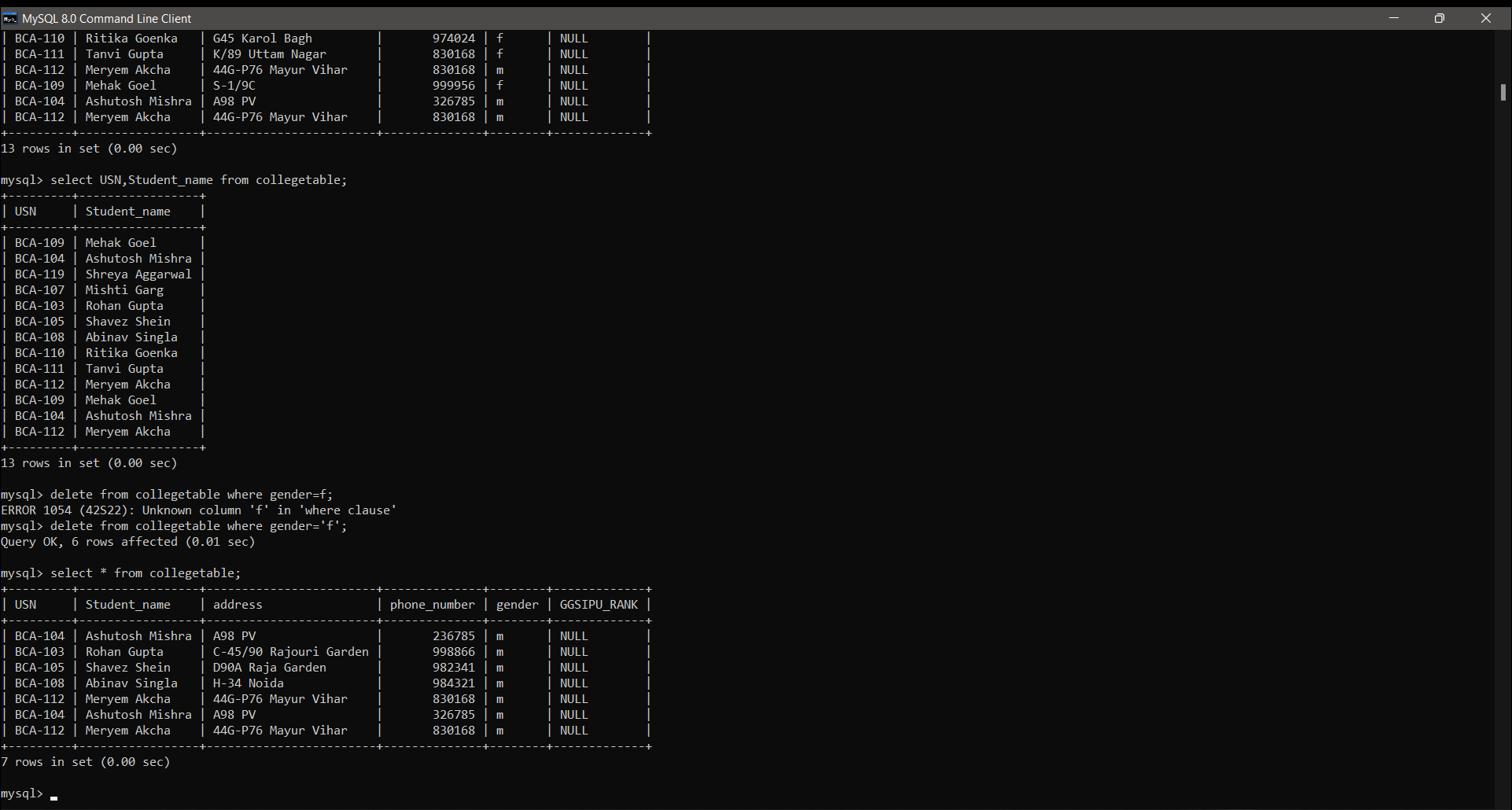
* Or Operator



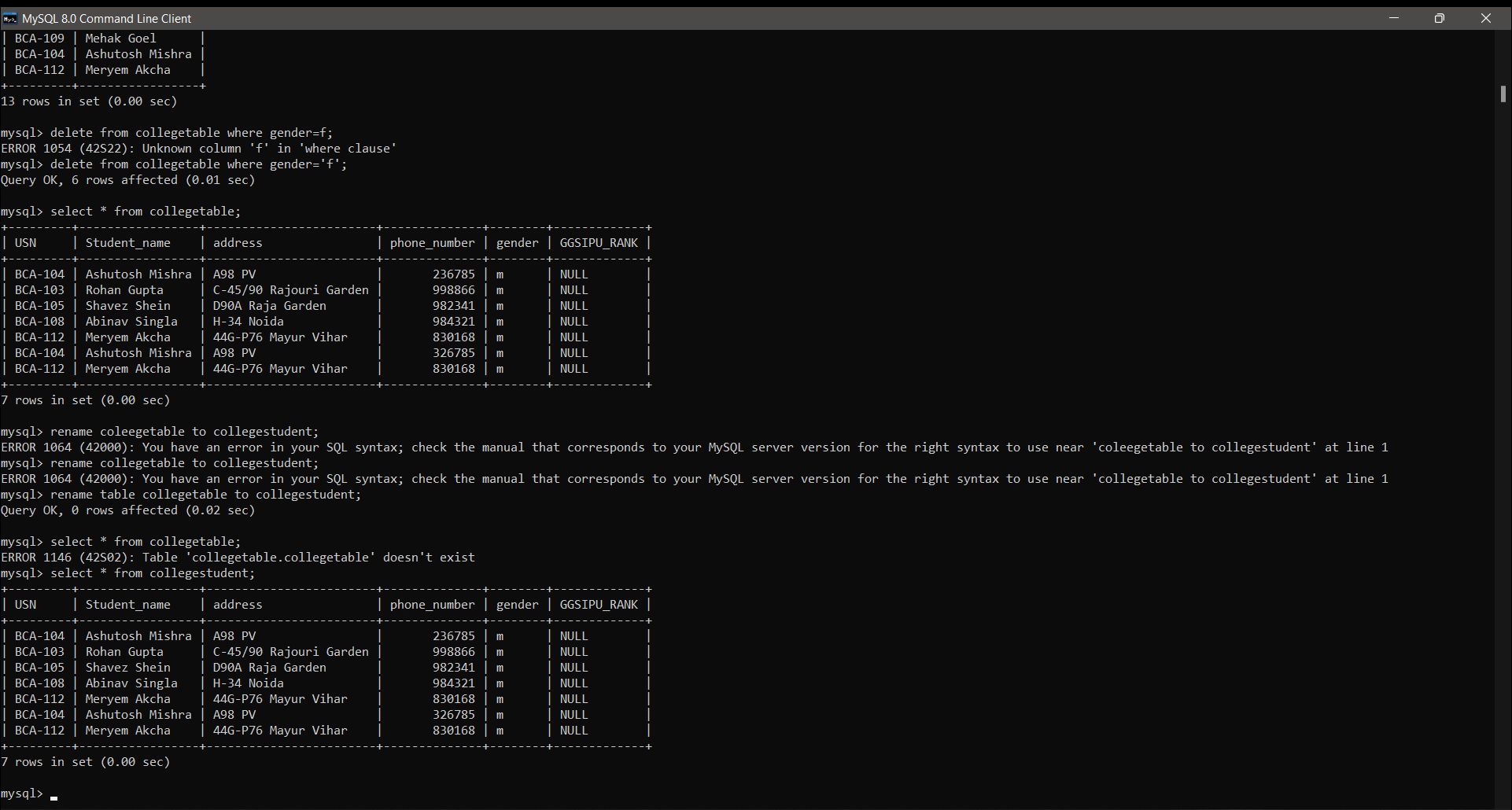
* Relational Operator

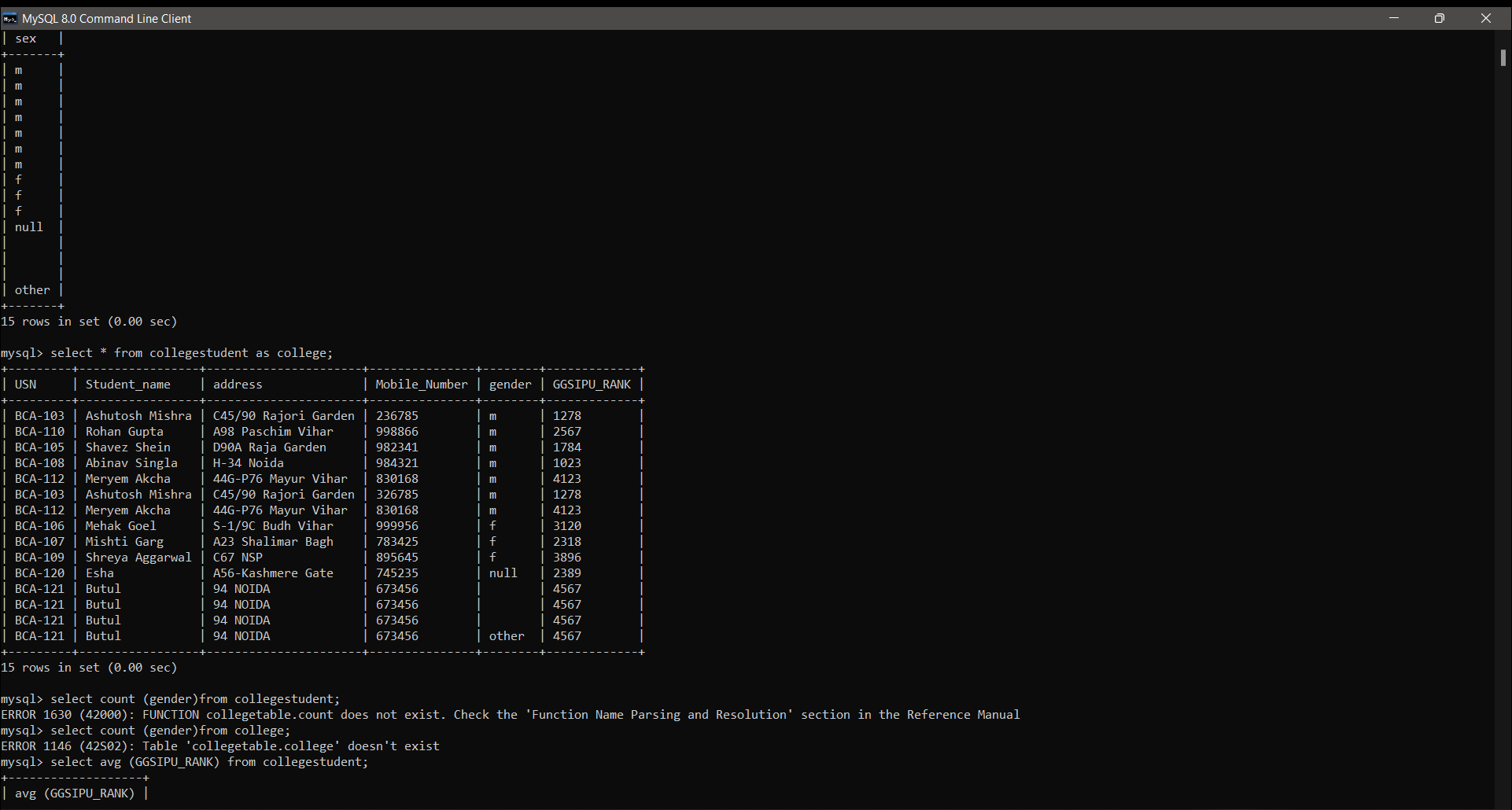


7.Deleting a Row From Table



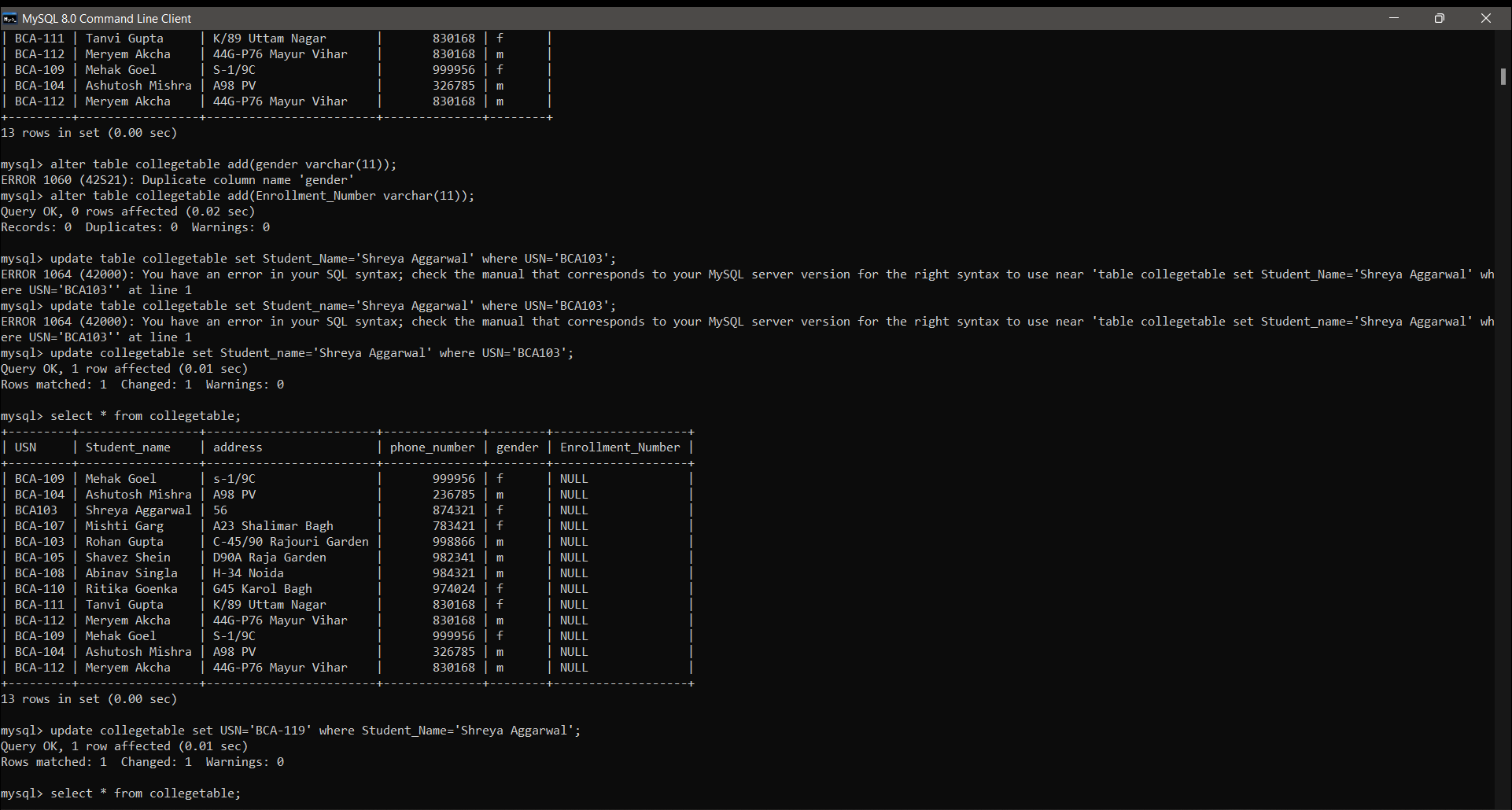
* Rename a table



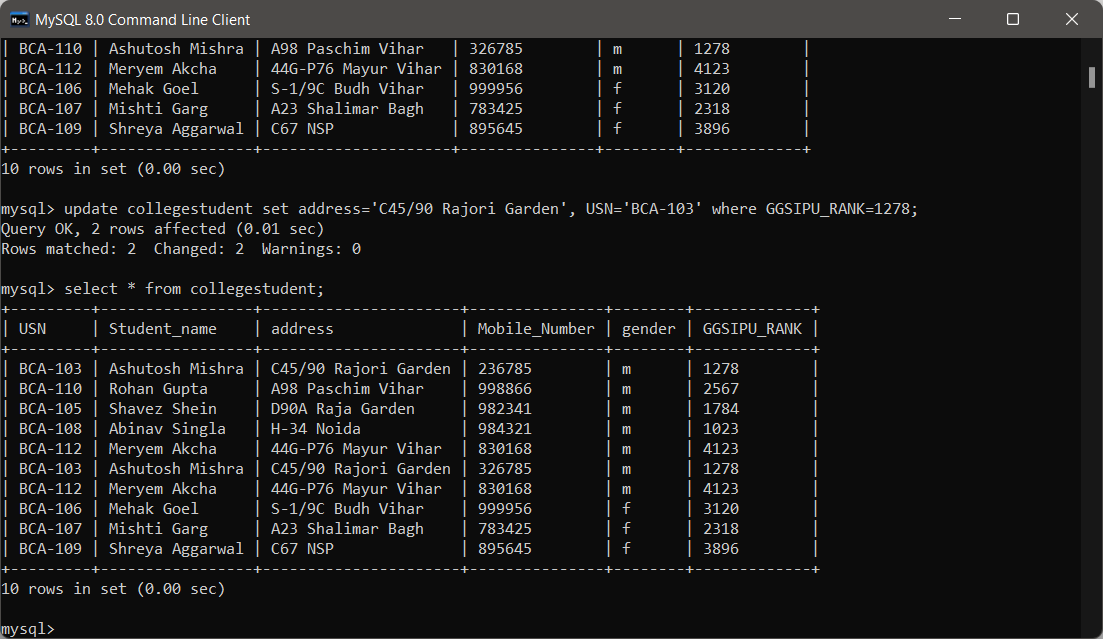
* RENAMING A TABLE

8.UPDATE: Modify data in single and multiple columns in a table

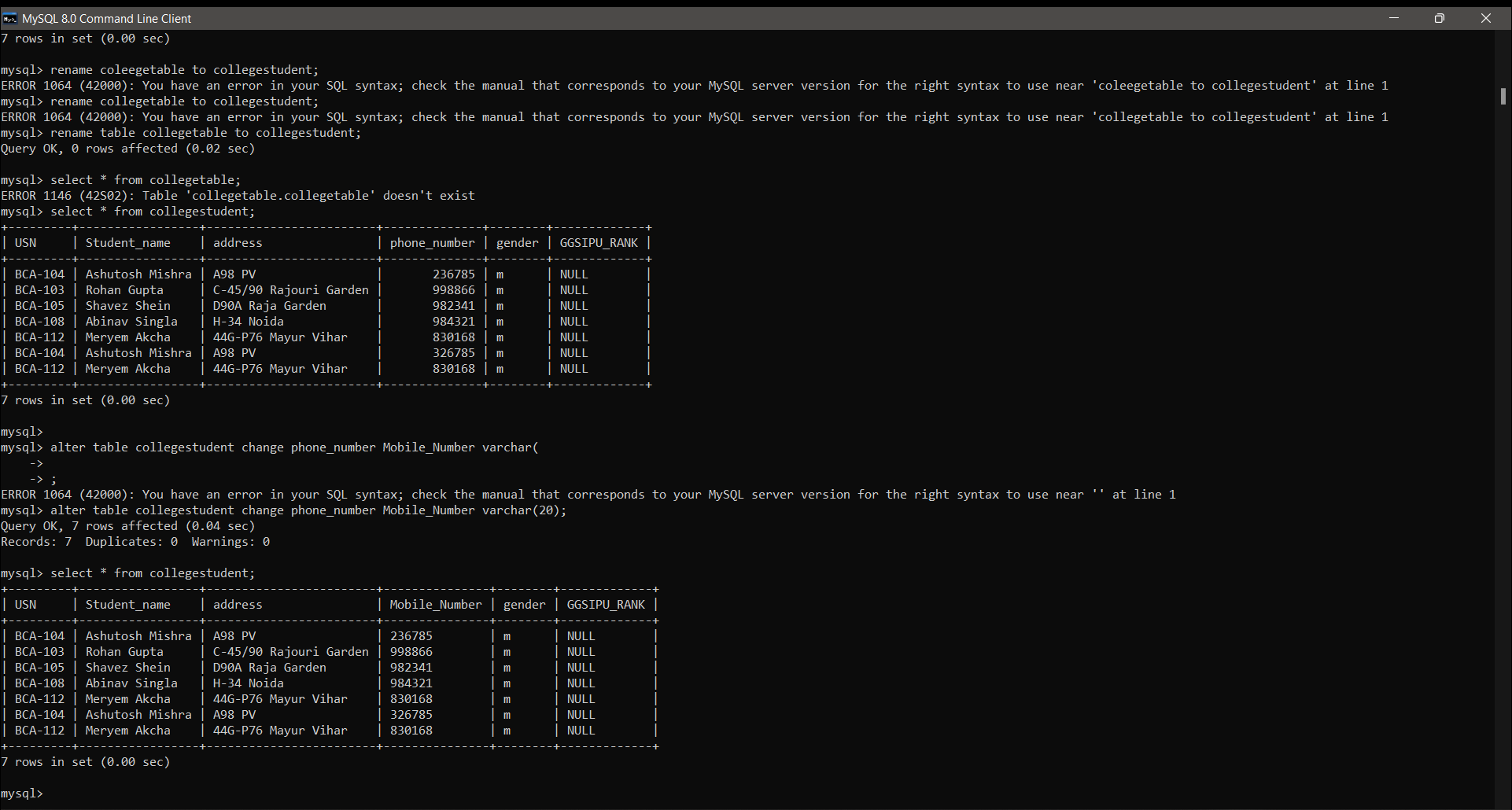
* UPDATE 1 column



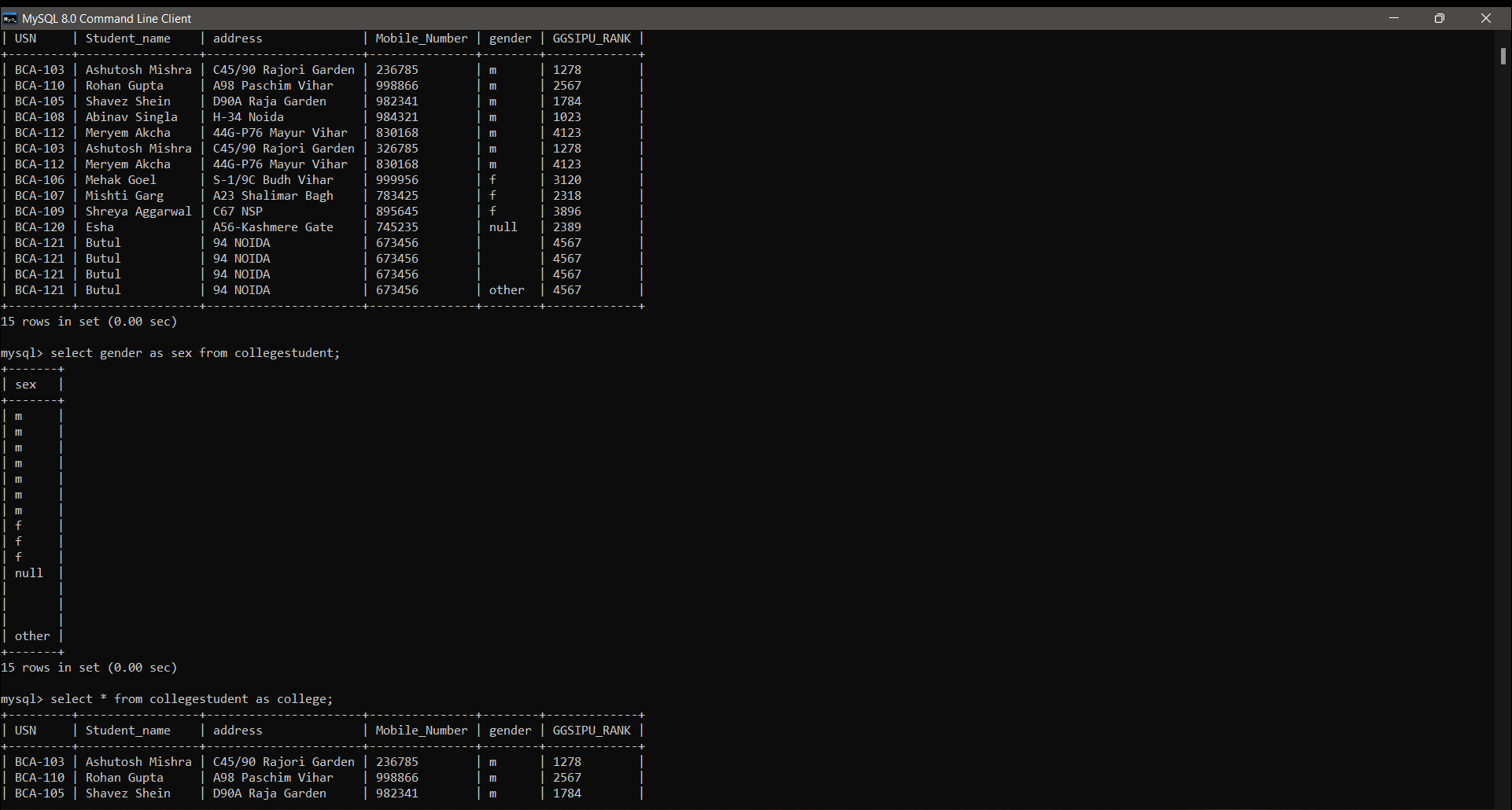
* Update 2 columns



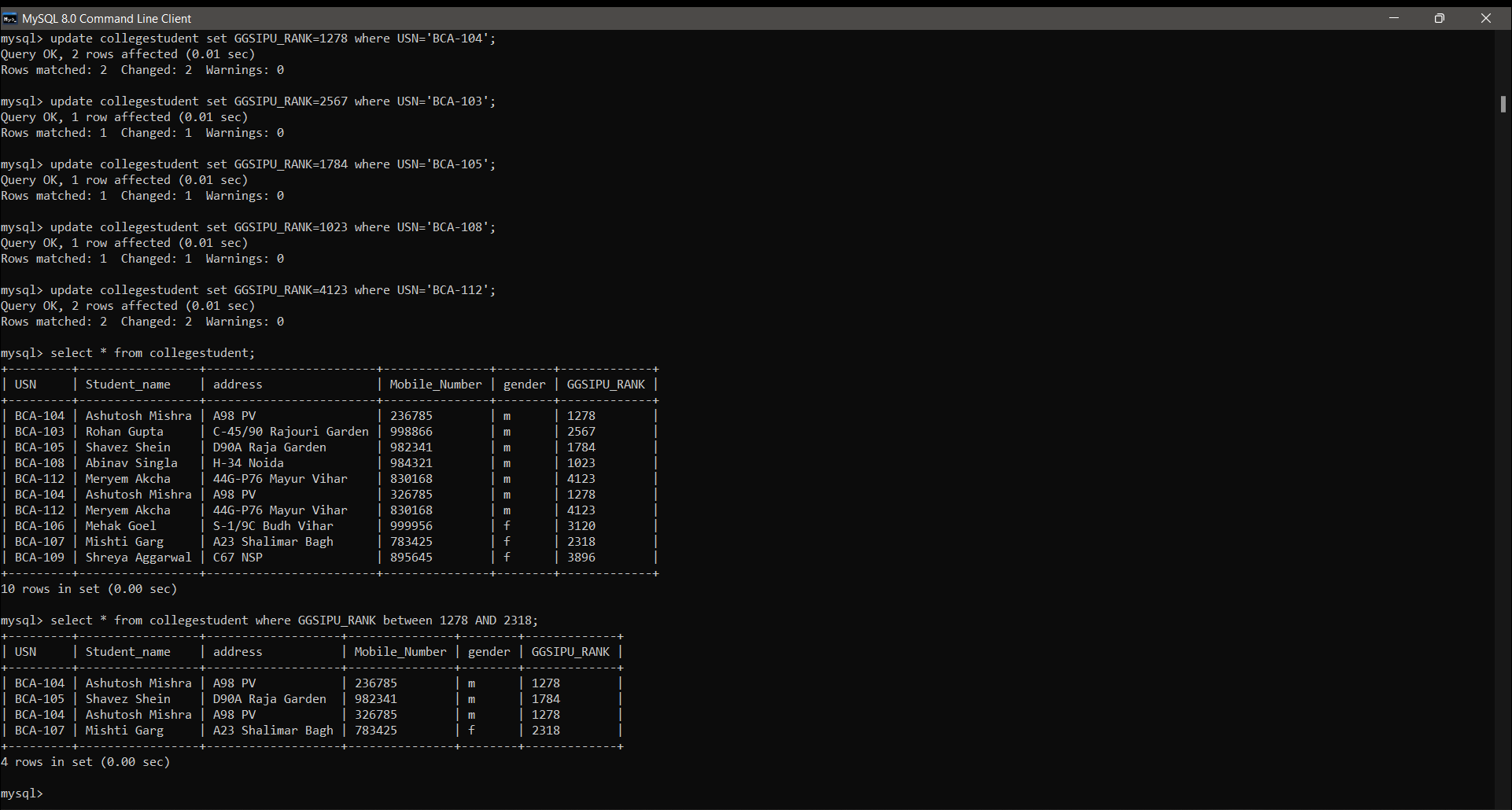
* Change column name



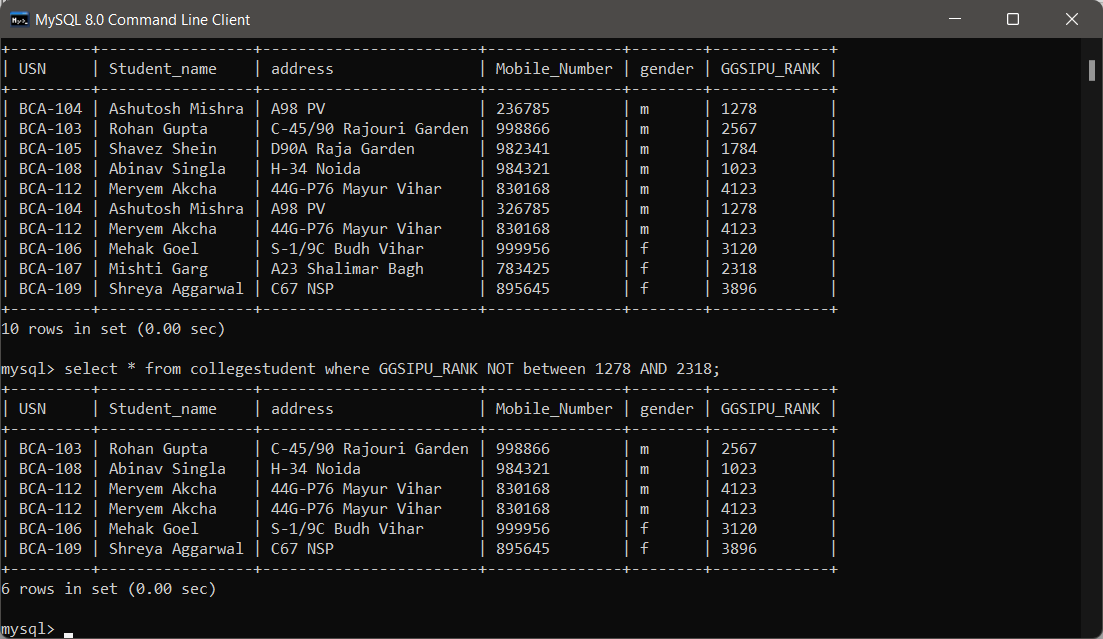
* Changing column name

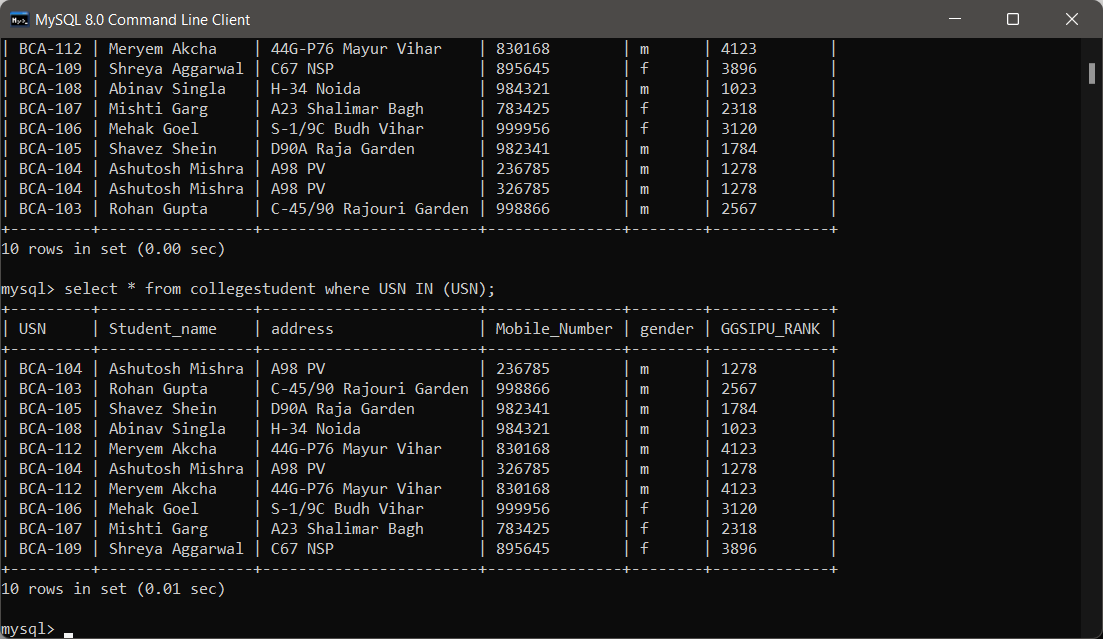


* BETWEEN



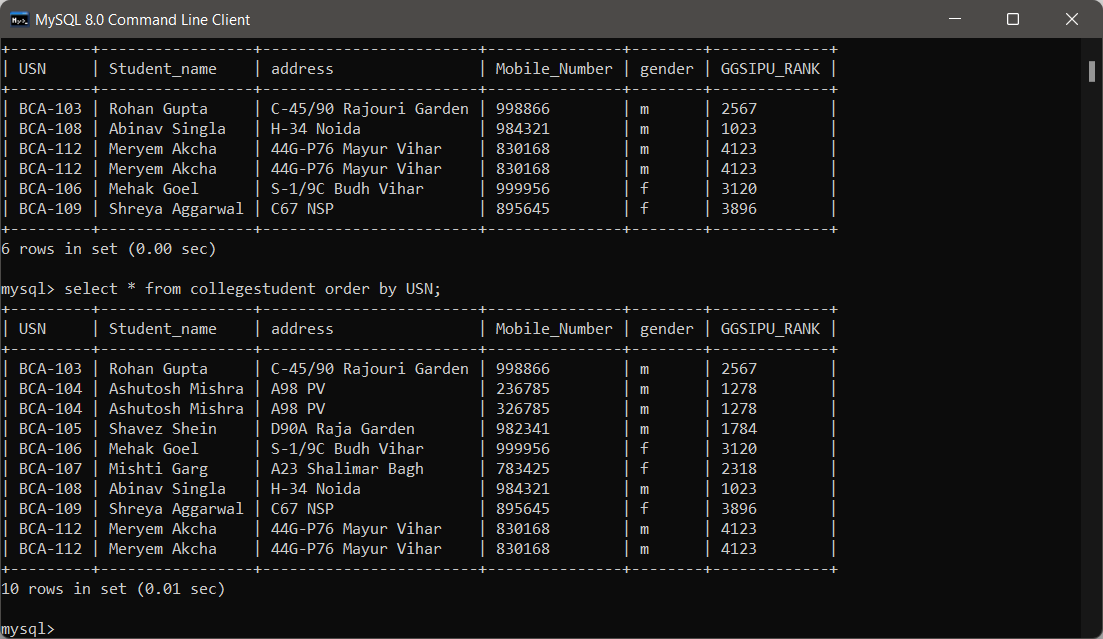
* NOT BETWEEN



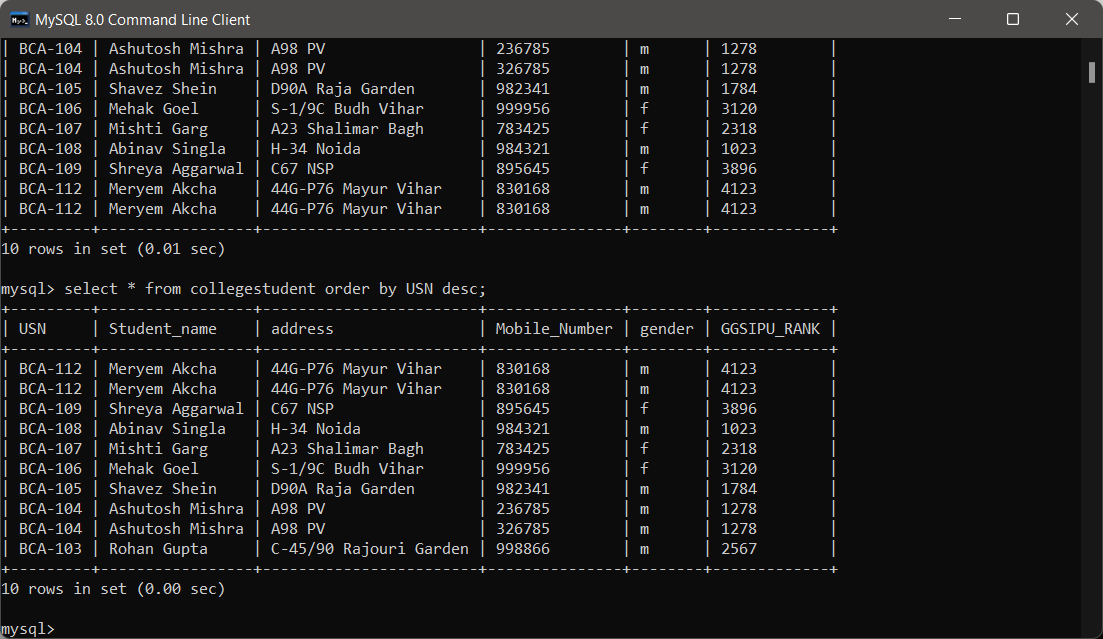


9.Sort the data in ascending and descending order in a table on the basis of one column or more than one column.

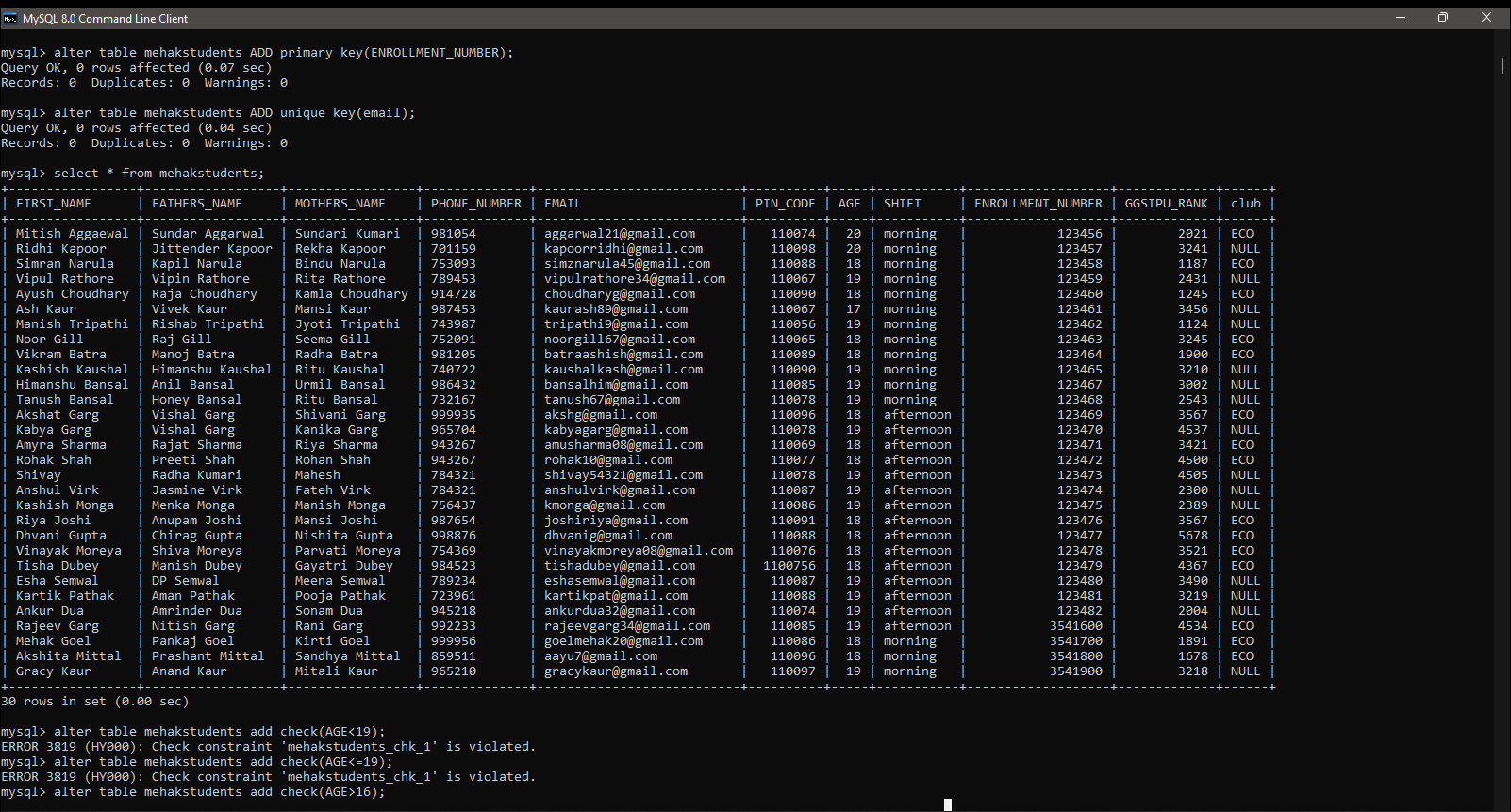
* Ascending order



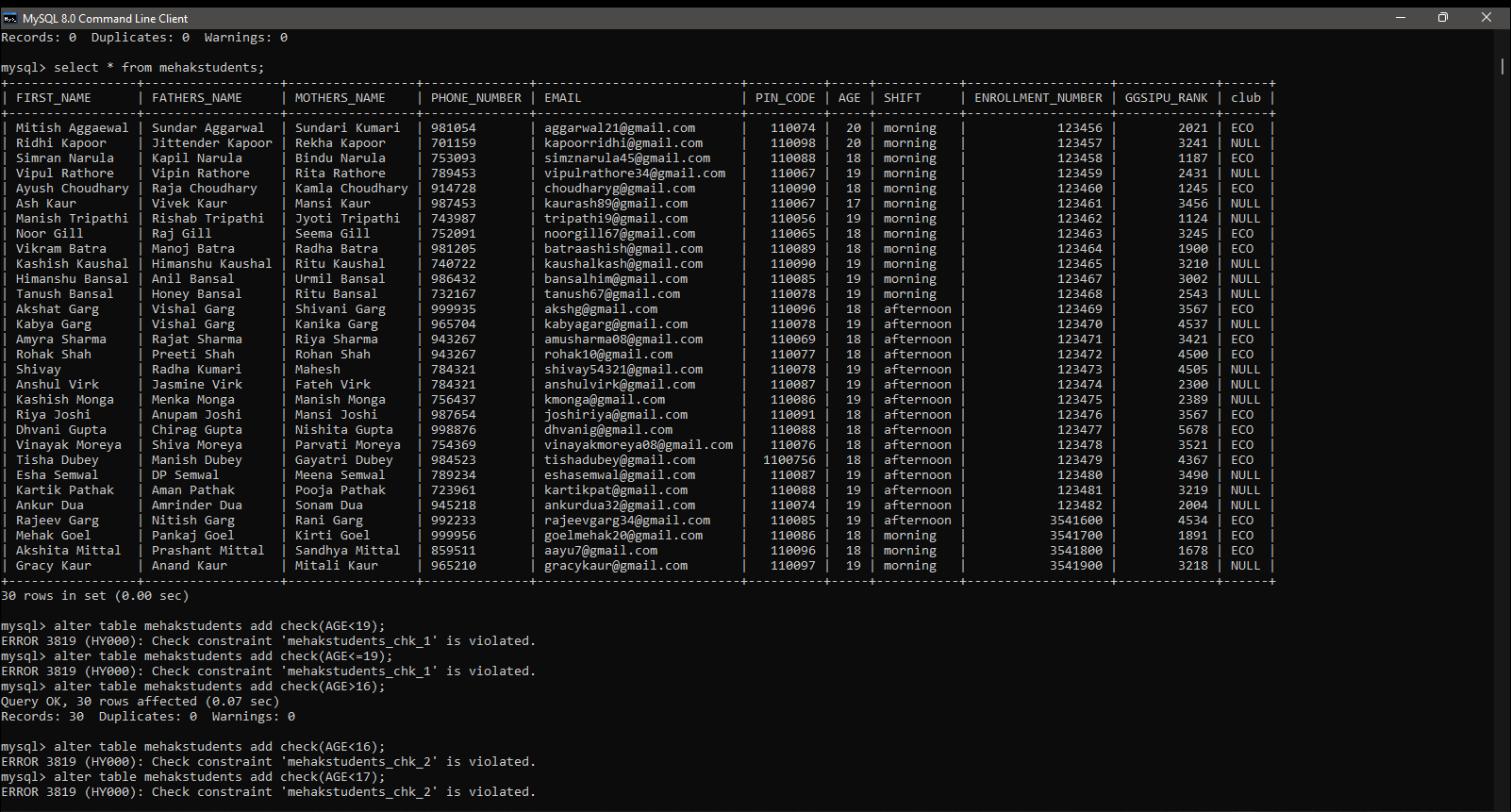
* Descending order



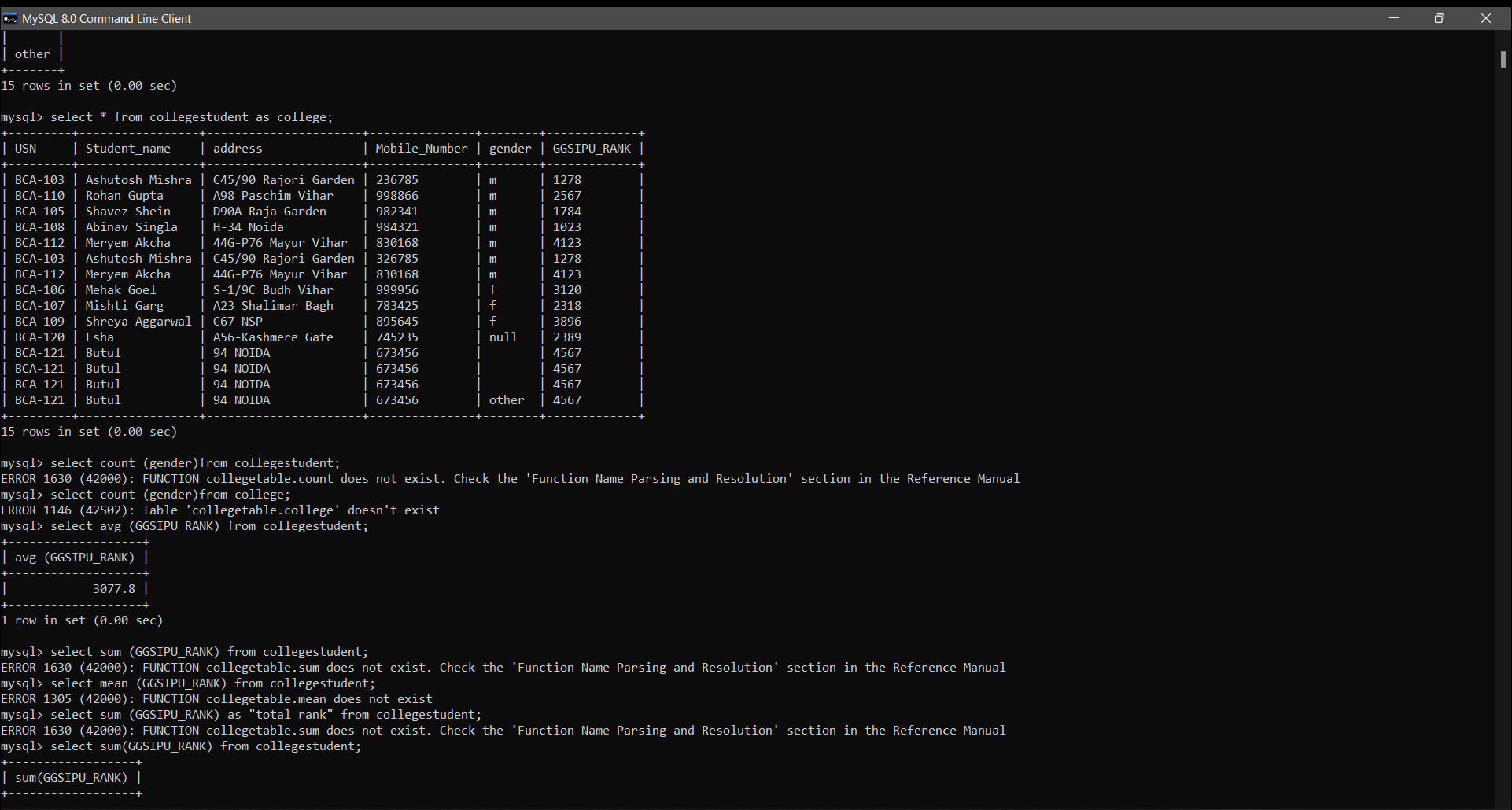
* ADDING UNIQUE KEY



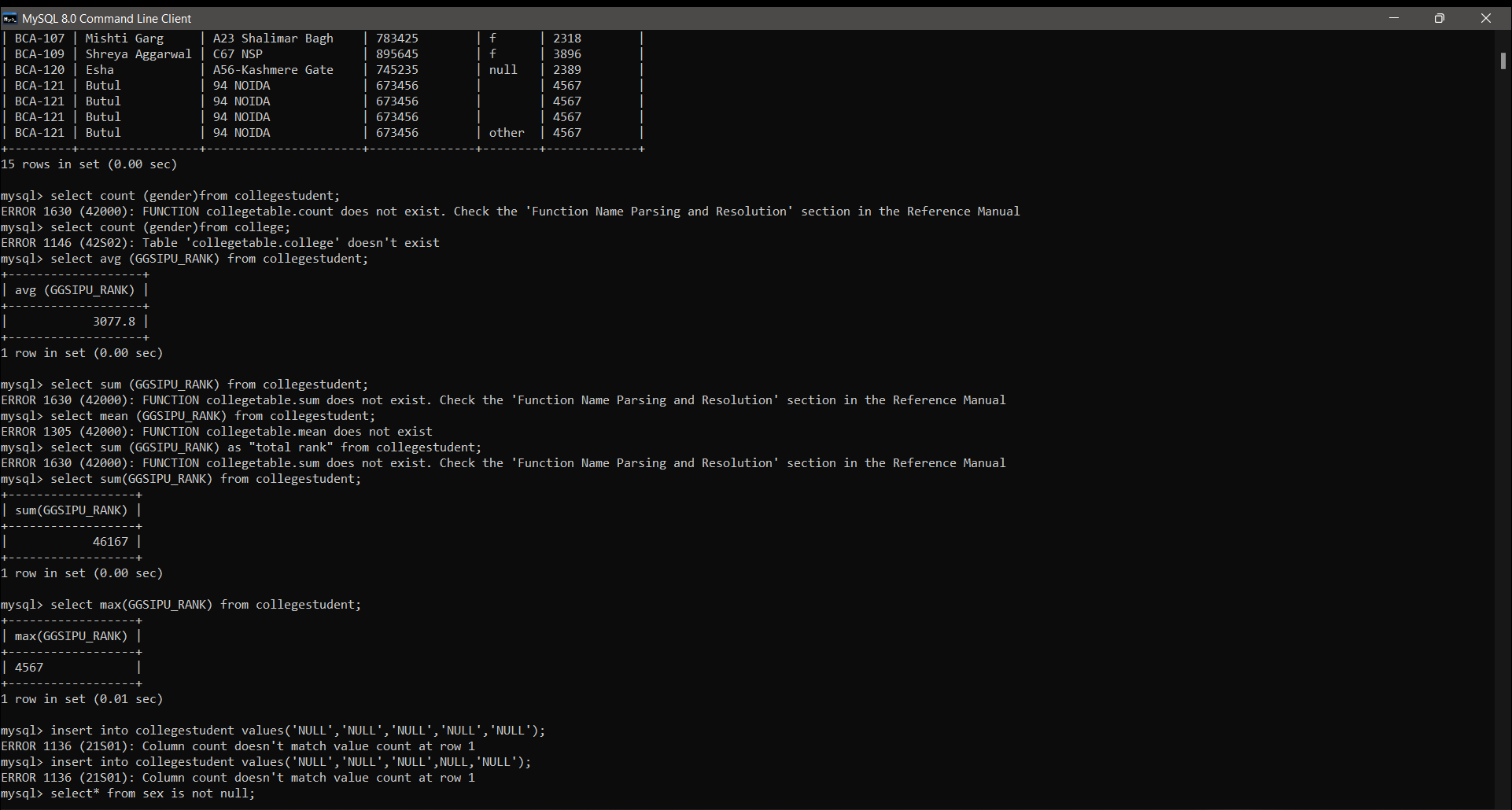
* ADD CONSTRAINT



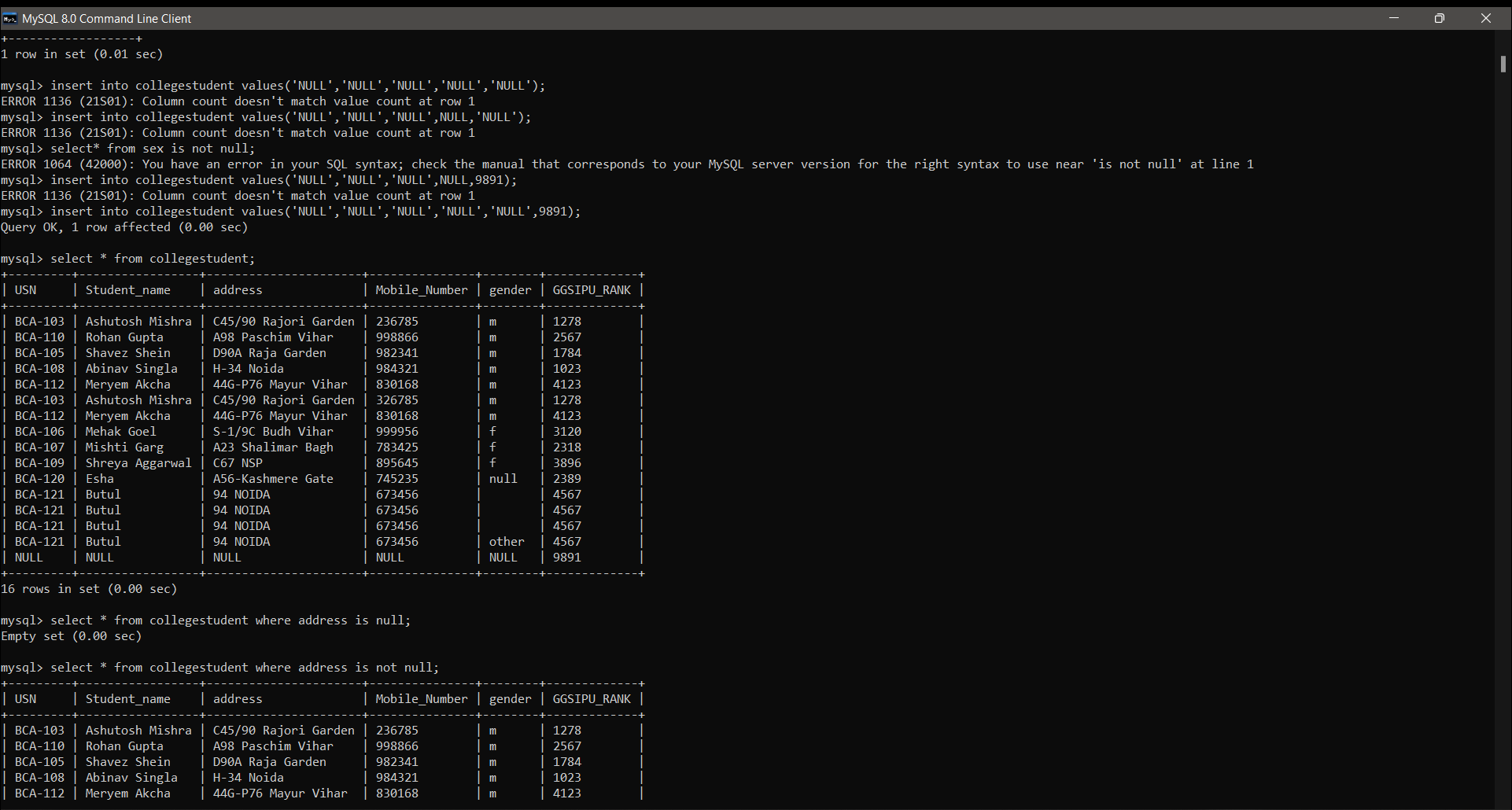
* FINDING AVERAGE



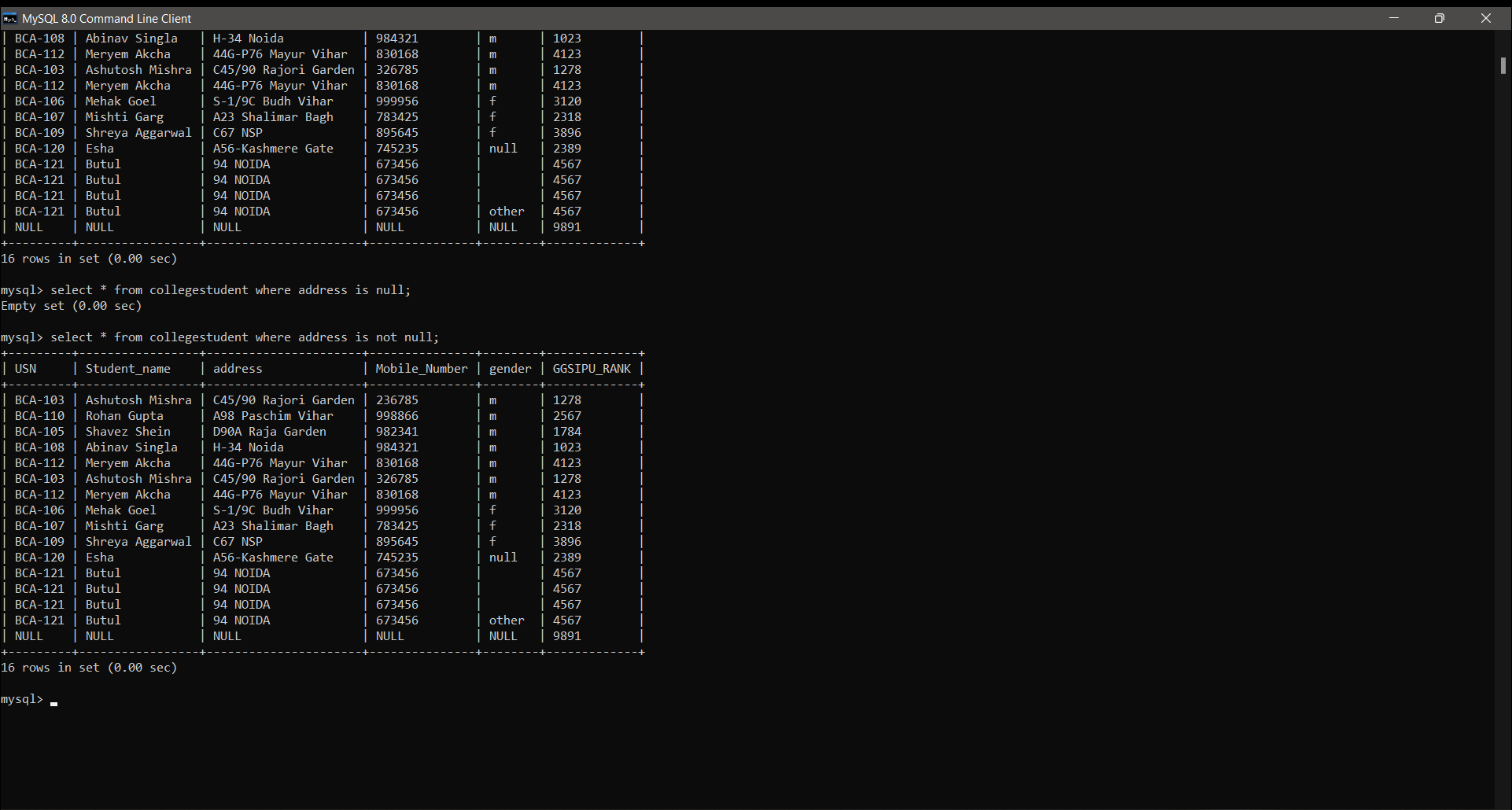
* FINDING SUM & MAX



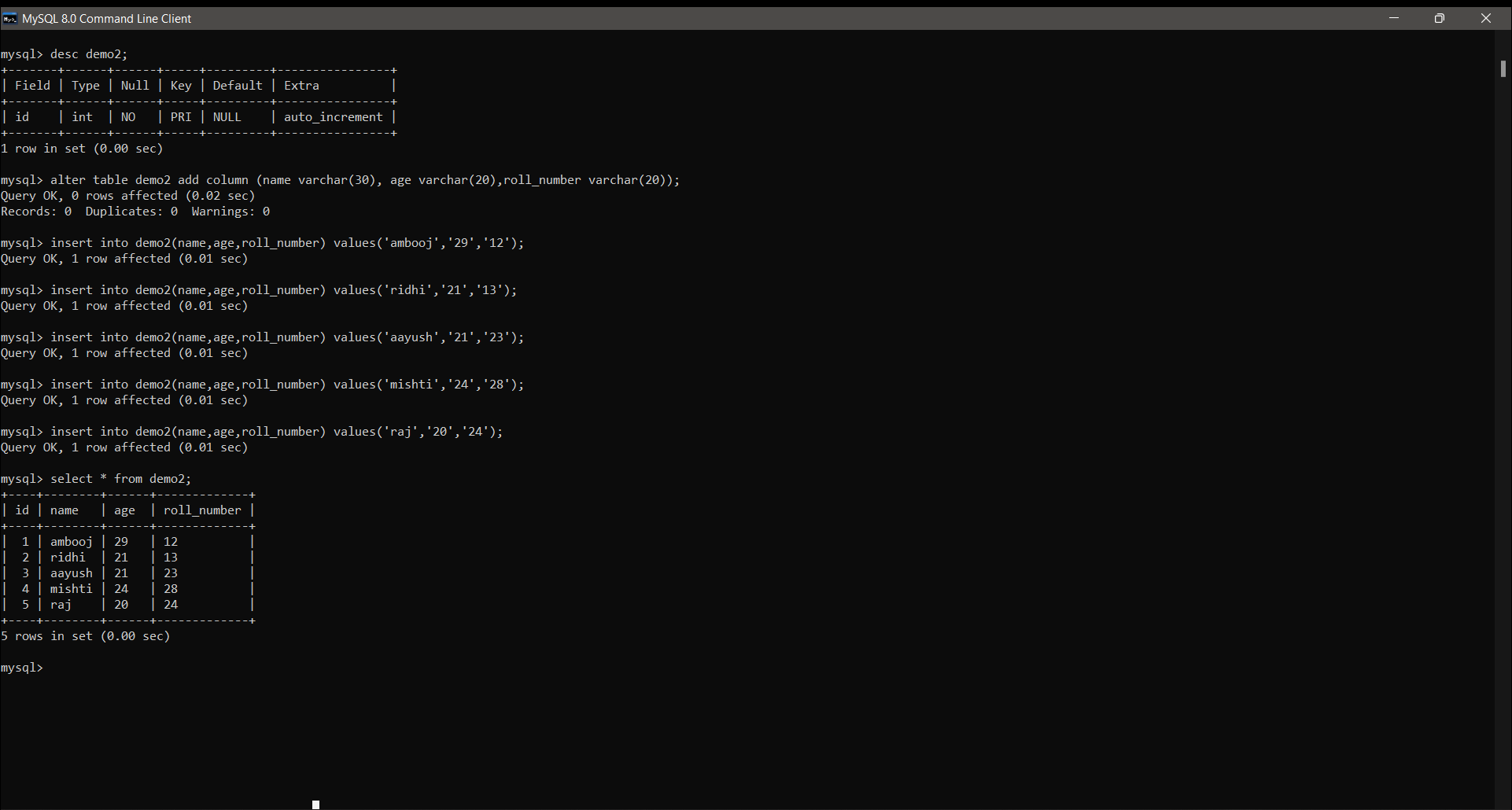
10.ADDING NULL VALUE INTO ROW OF TABLE



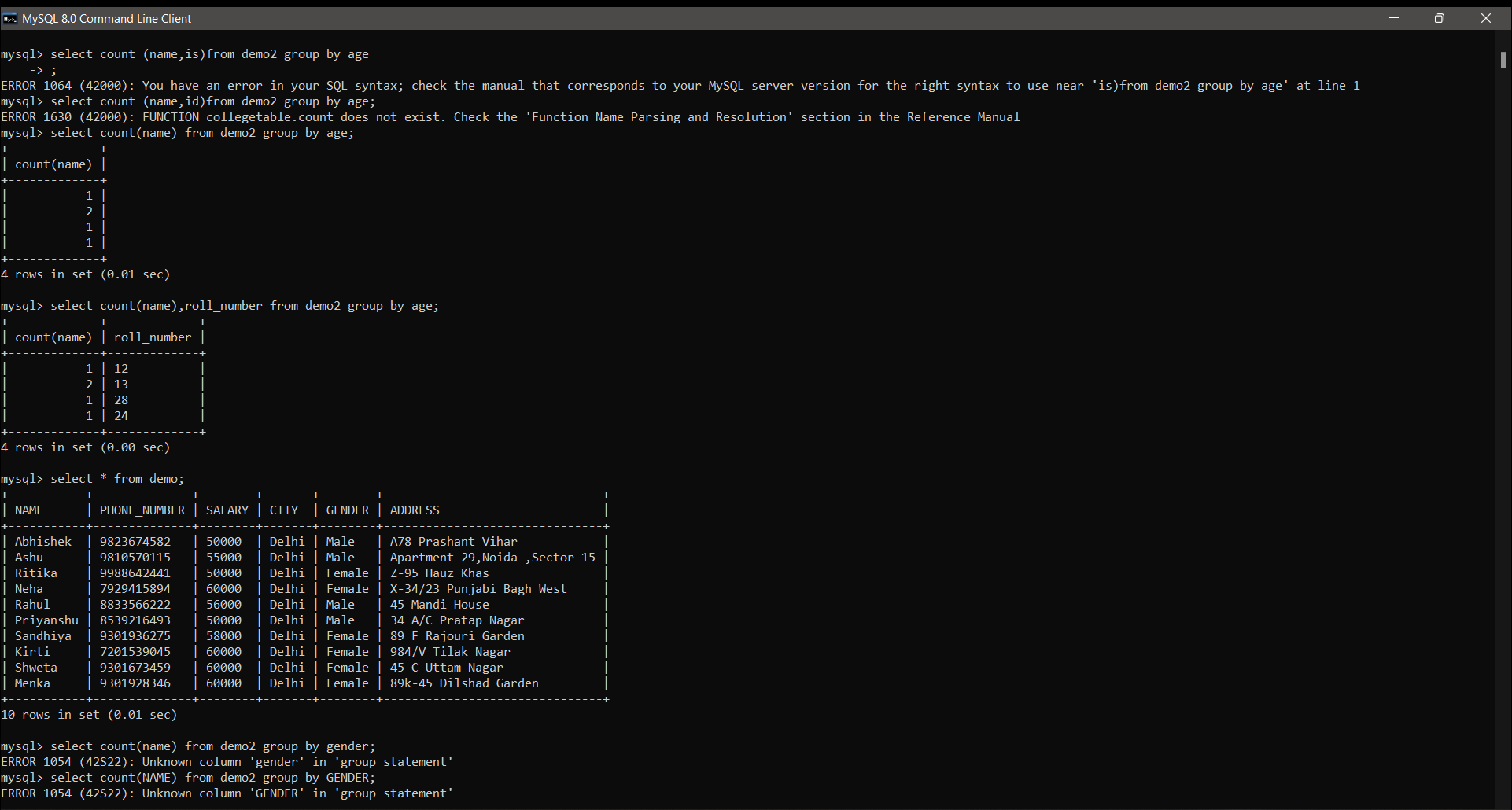
* NULL AND NOT NULL

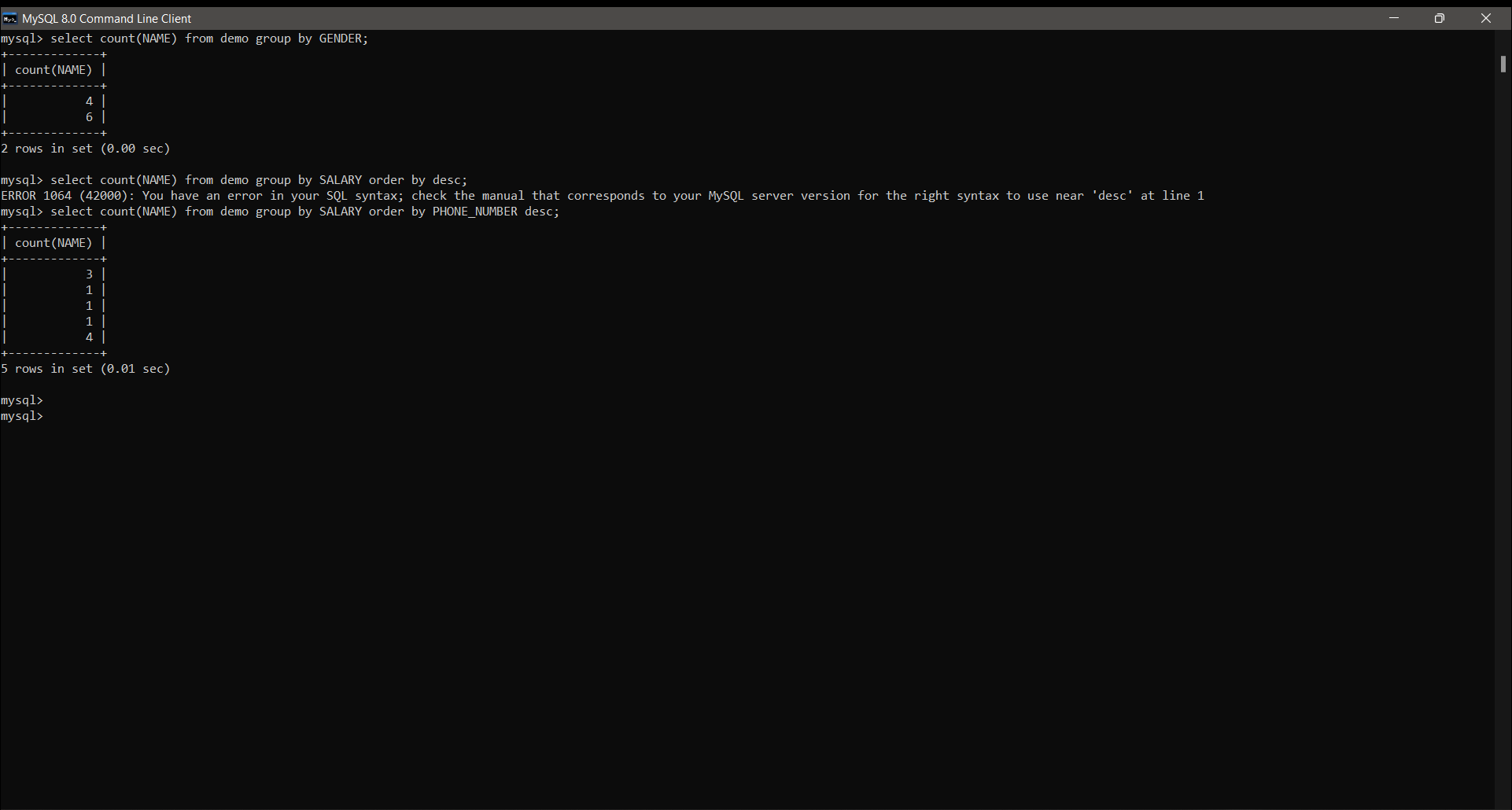


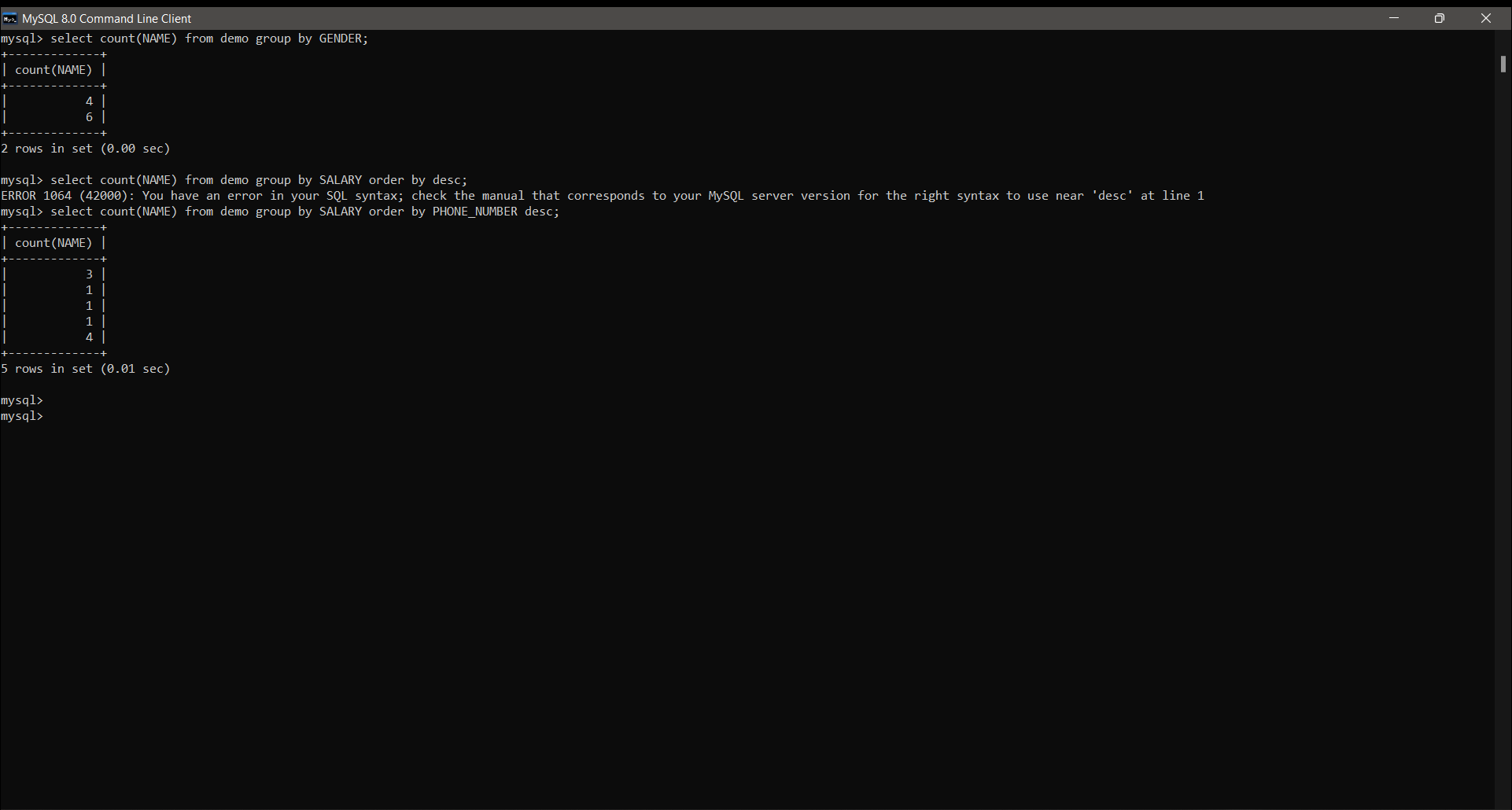
* USE OF AUTO INCREMENT

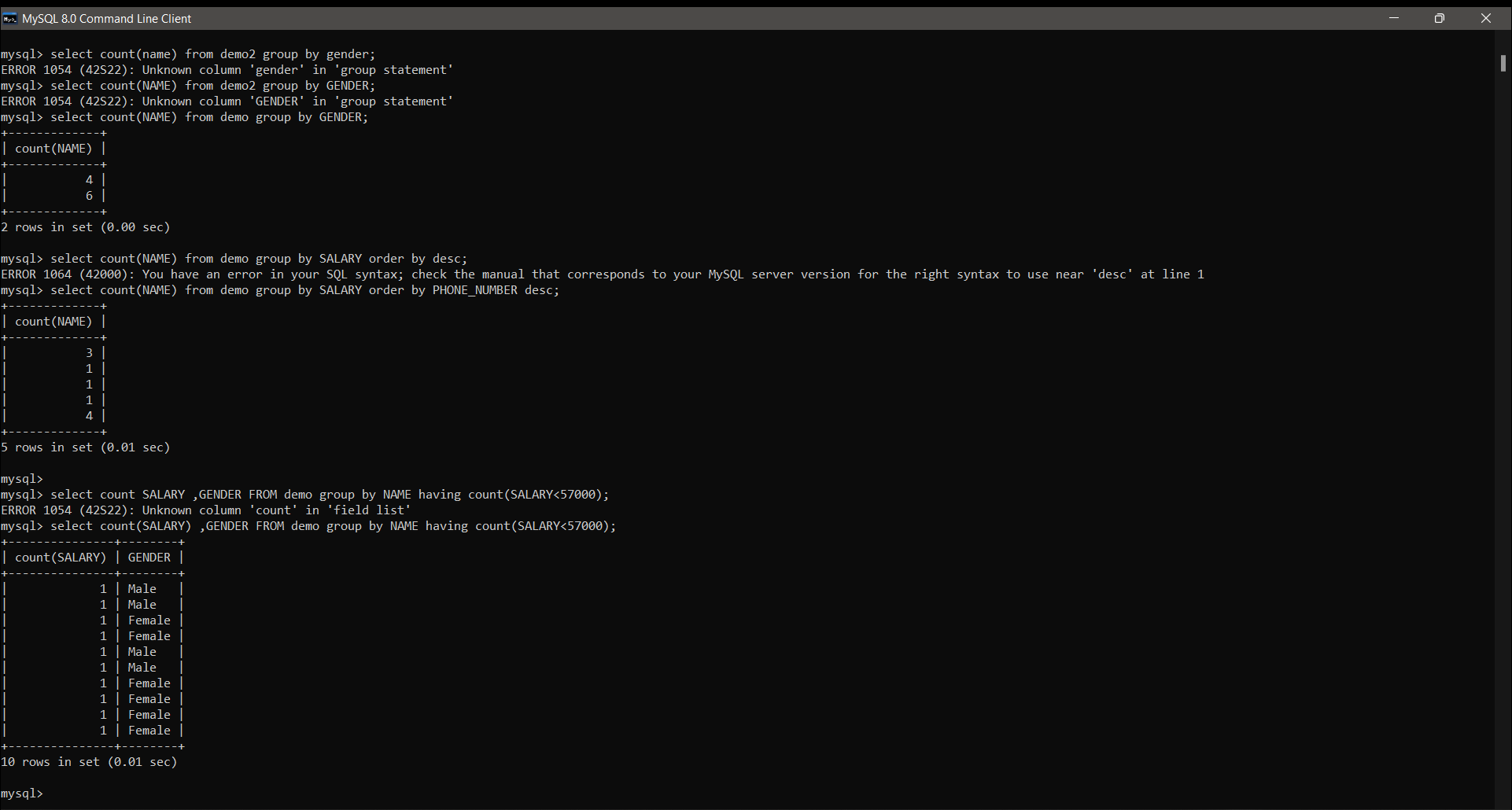


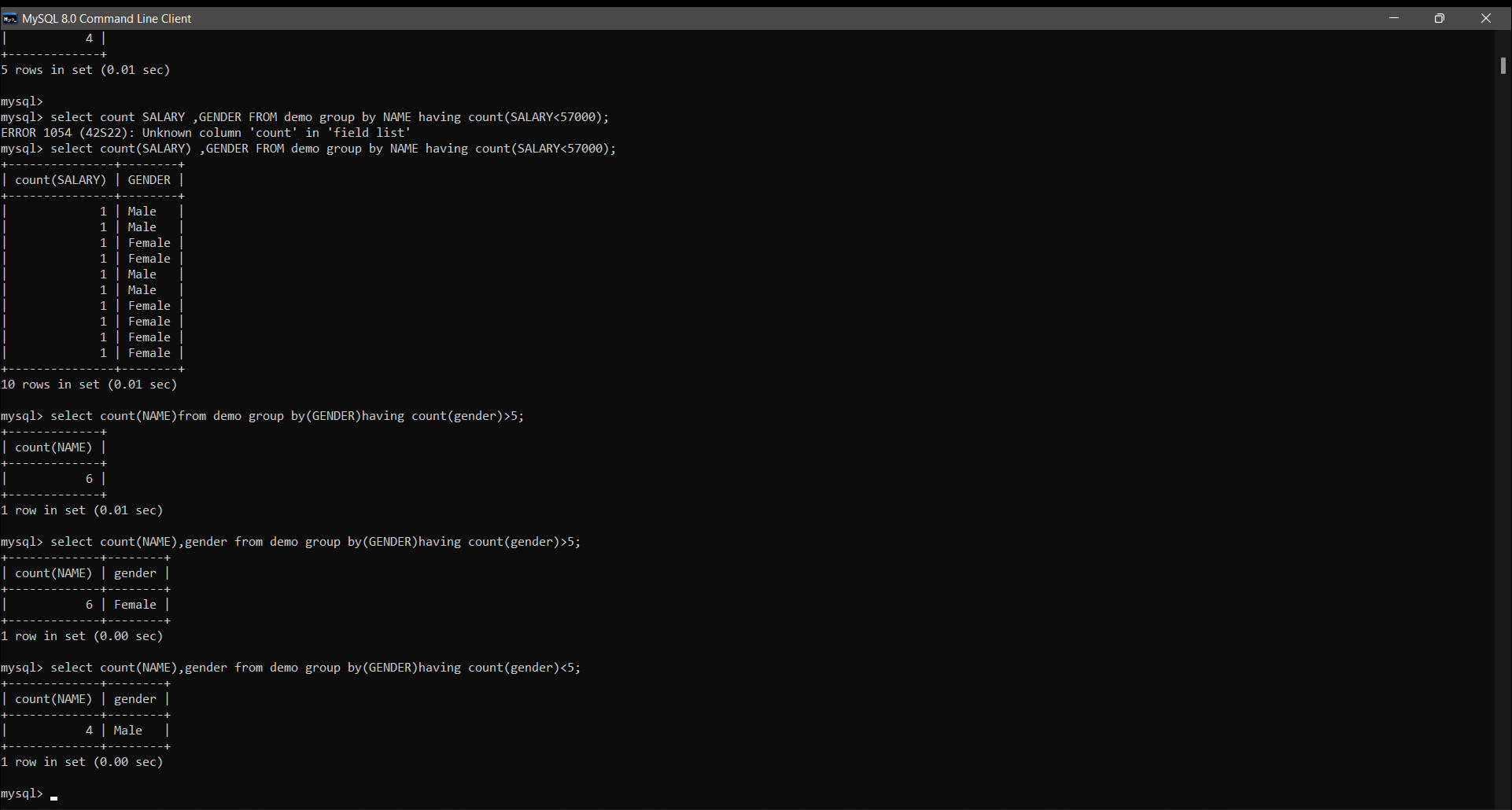
11.GROUP BY QUERY

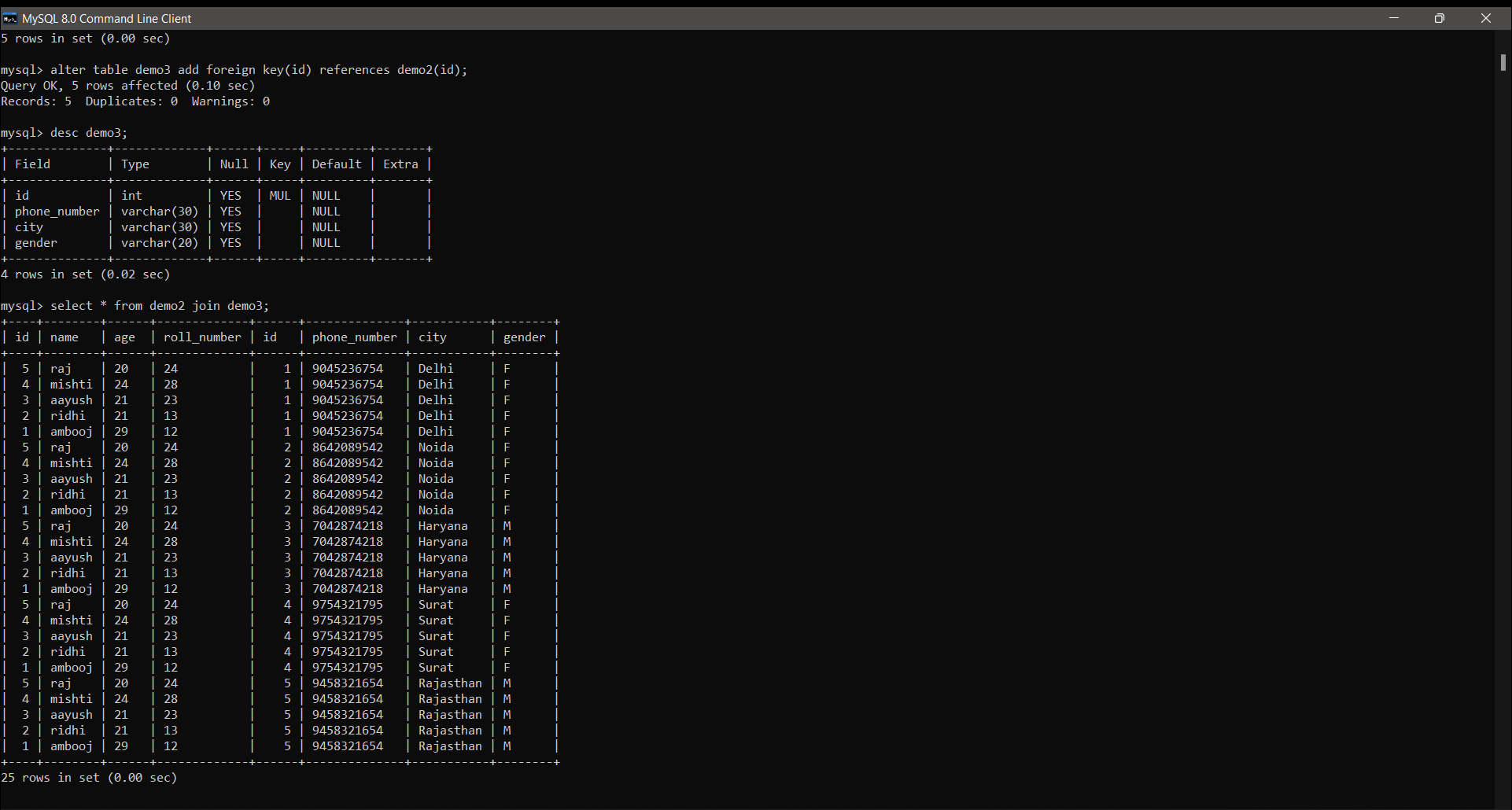




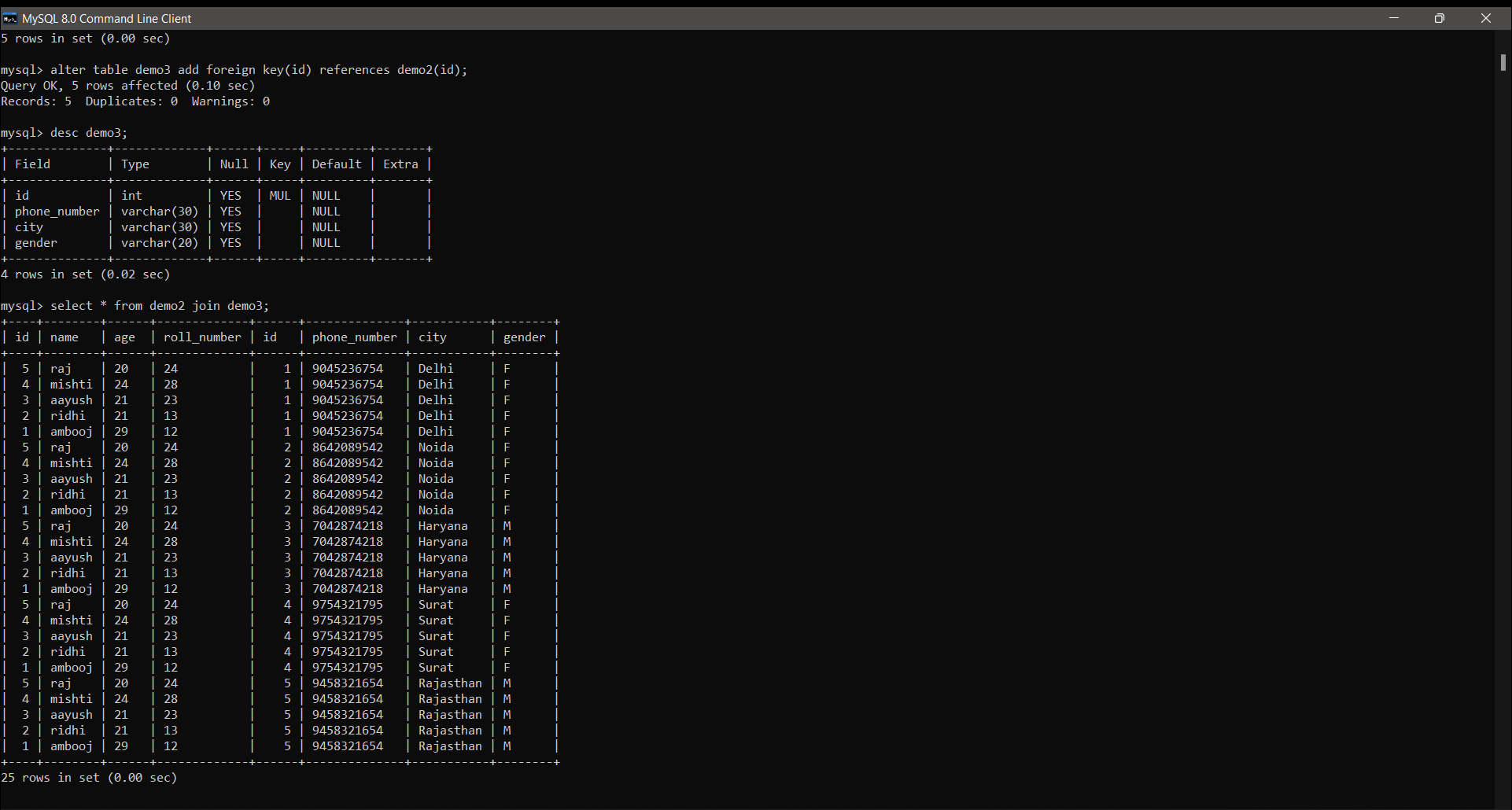








Multiplication



**Application Based Practicals**

13. **Consider the Insurance company’s Database given below. The primary keys are underlined and the data typesare specified.**

**•PERSON(driver\_id# : string, name : string, address : string)**

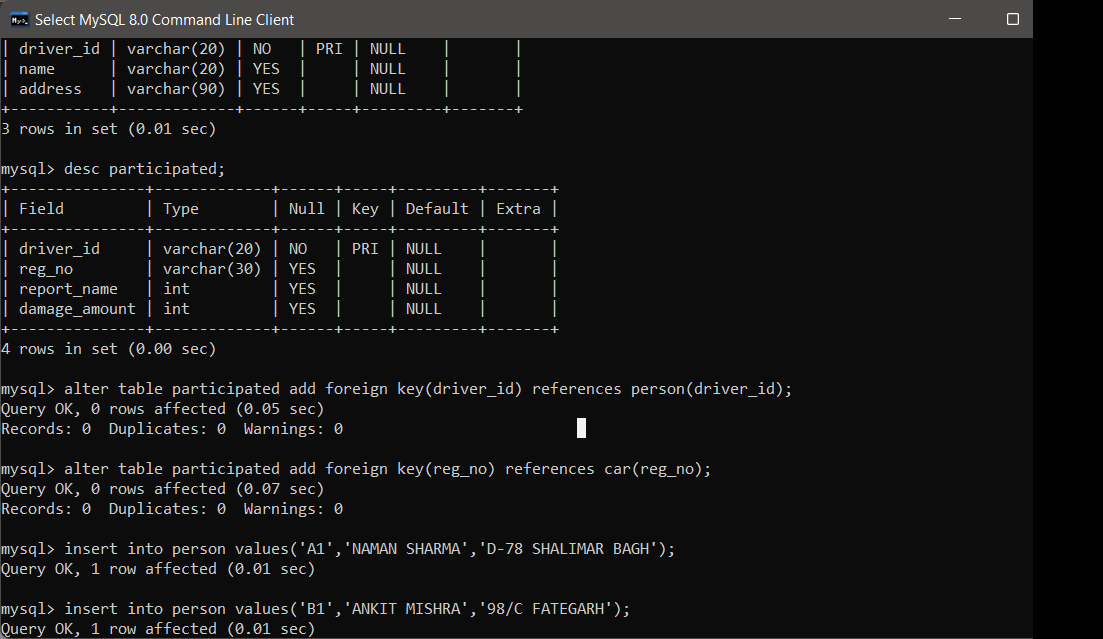
**• cAR(regno : string, model : string, year : int)**

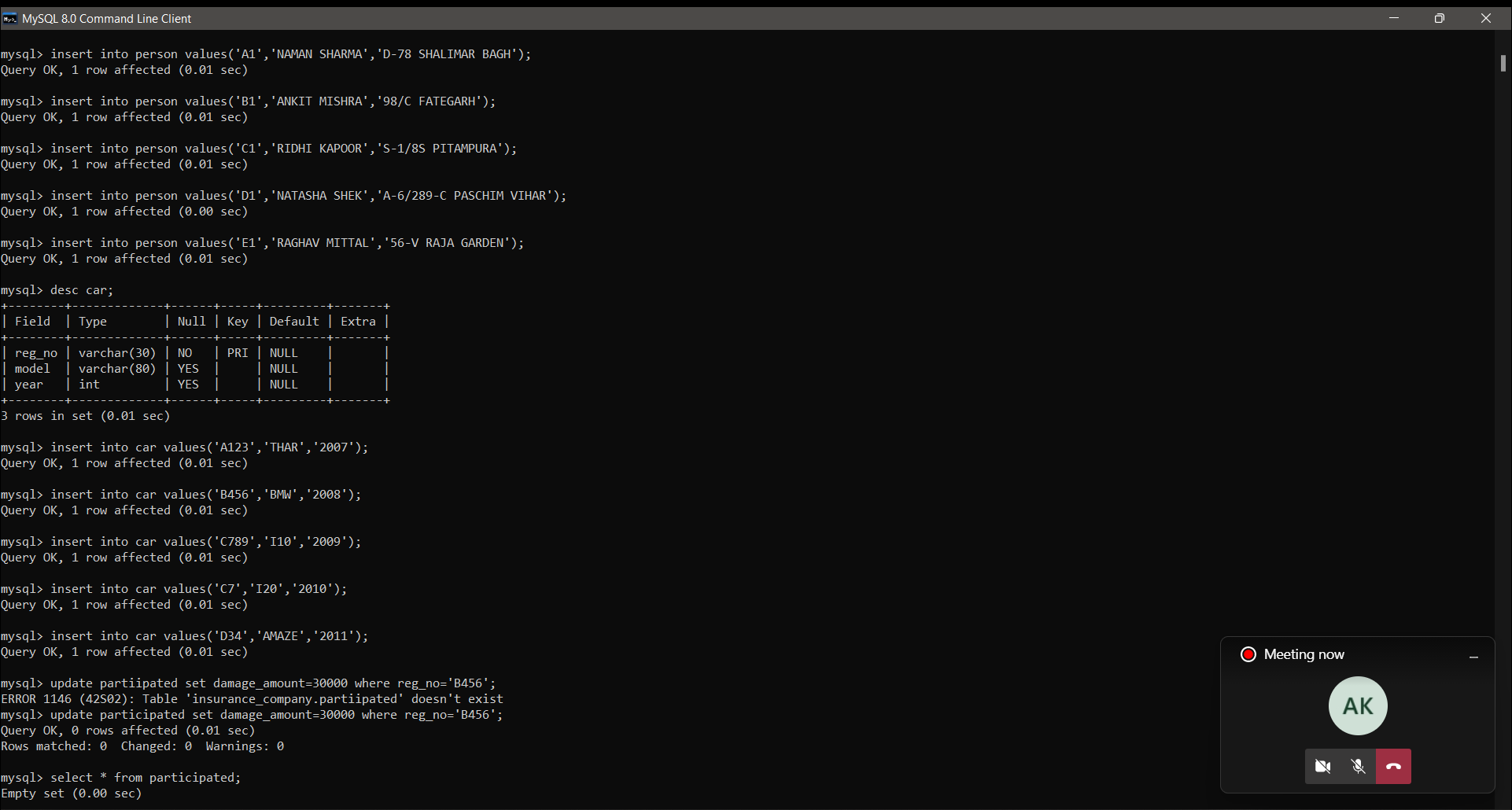
**• ACCIDENT(report\_number : int, acc\_date : date, location : string)**

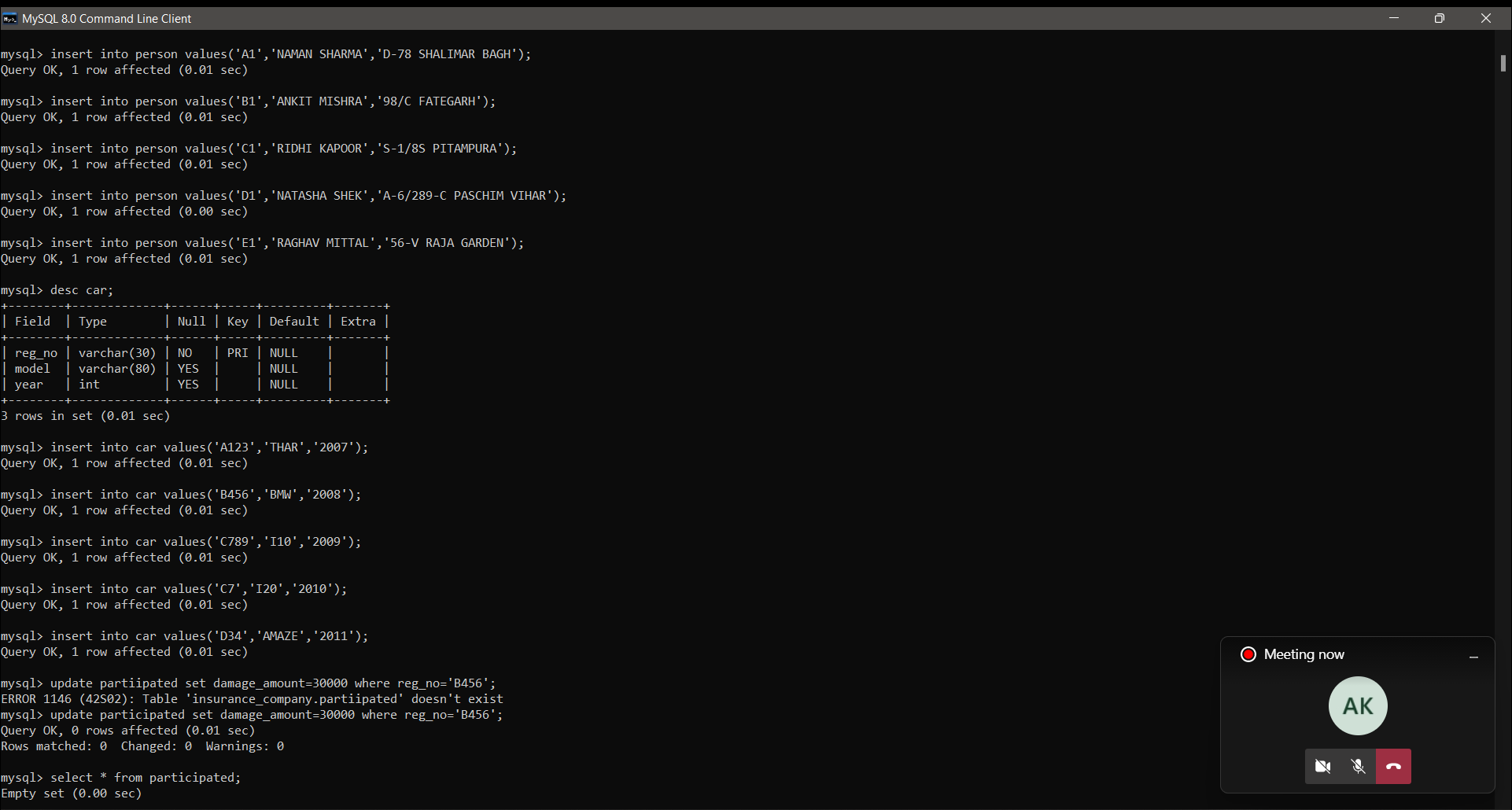
**• OWNS(driver\_id# : string, regno : string)**

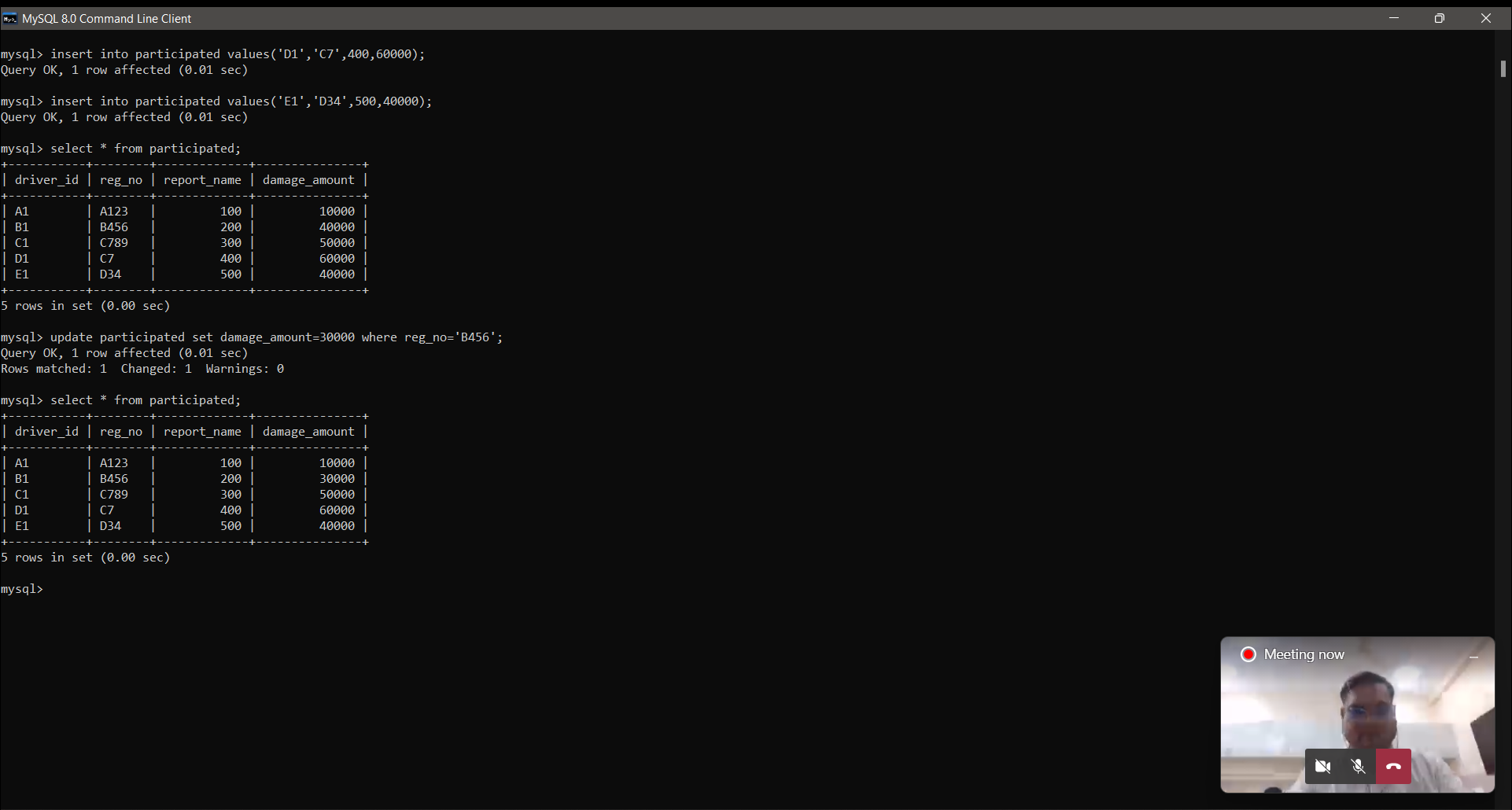
**• PARTICIPATED(driver\_id# : string, regno : string, report\_number : int, damage\_amount :number(10,2) )**

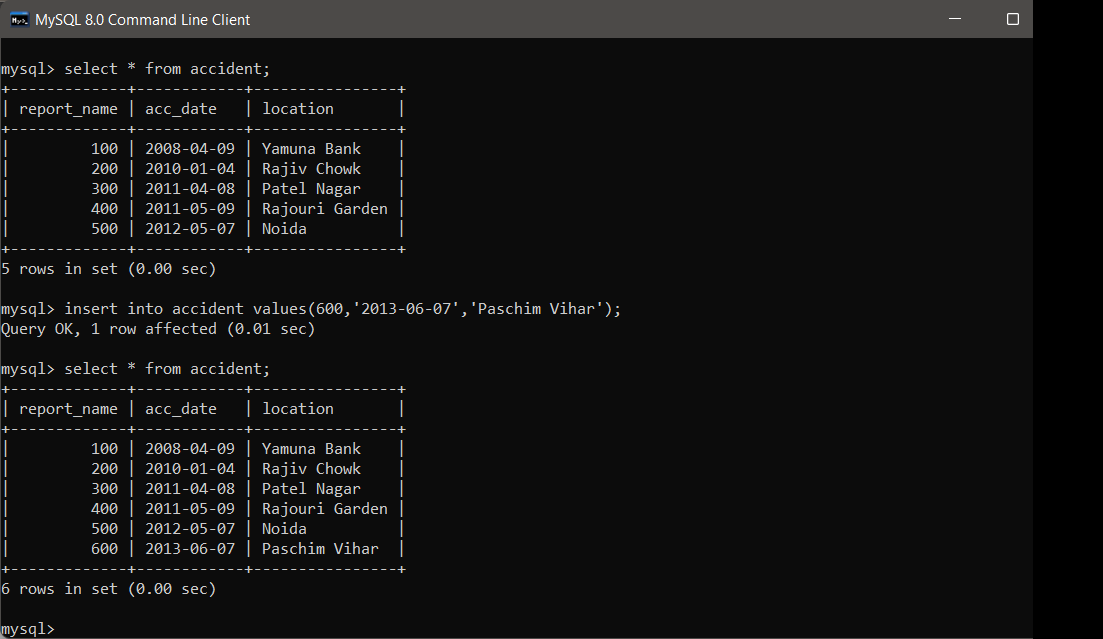
1. **Create the above tables by properly specified the primary key and the foreign key**
2. **(ii) Enter at least five tuples for each relation**
3. **(iii) Demonstrate how you can a. Update the damage amount for the car with a specific regno, the accident with report number 12 to 25000. b. Add a new accident to the database.**
4. **Find the total number of people who owned cars that were involved in accident in 2002.**
5. **Find the number of accident in which cars belonging to a specific models were involved**

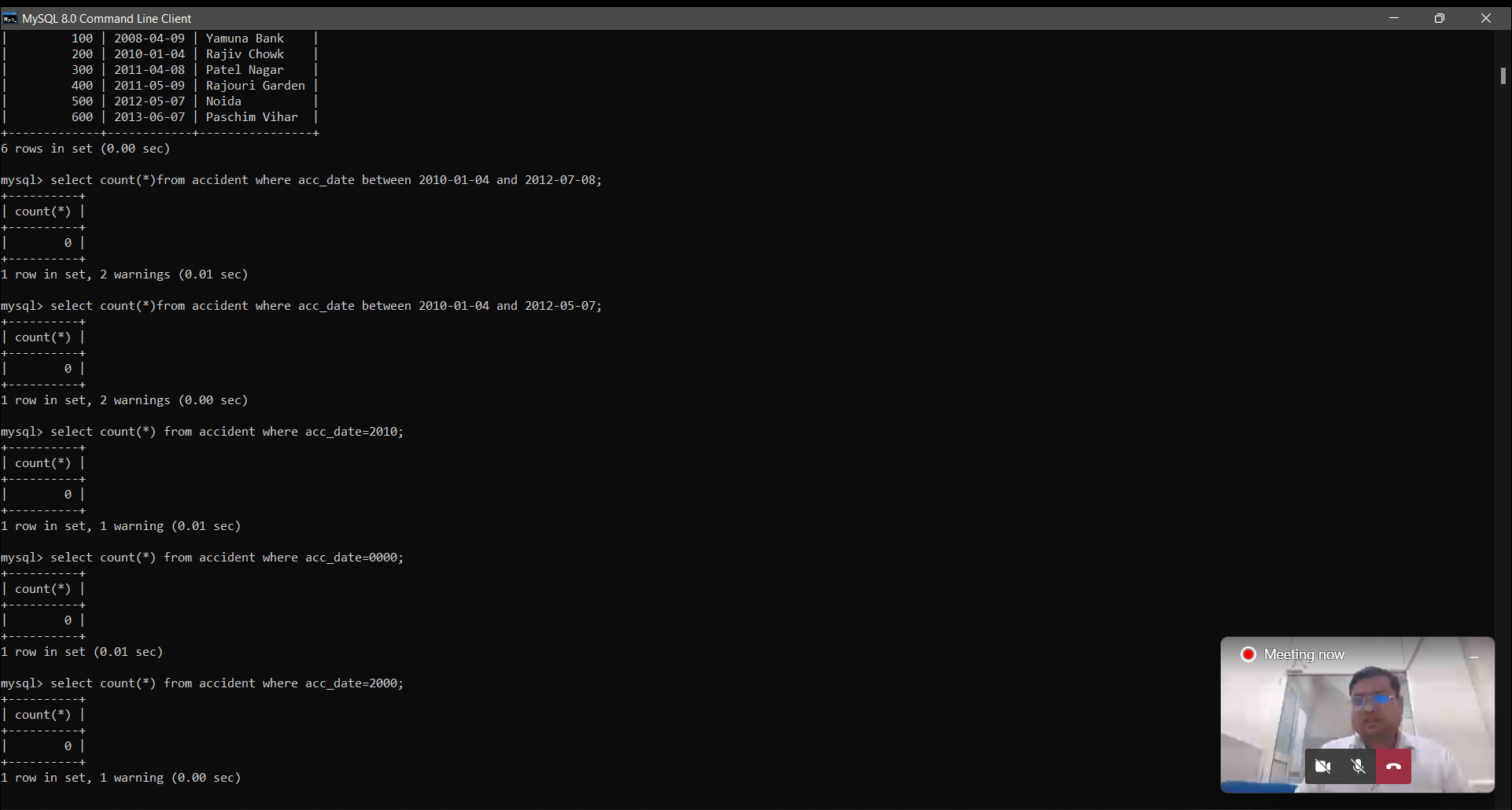


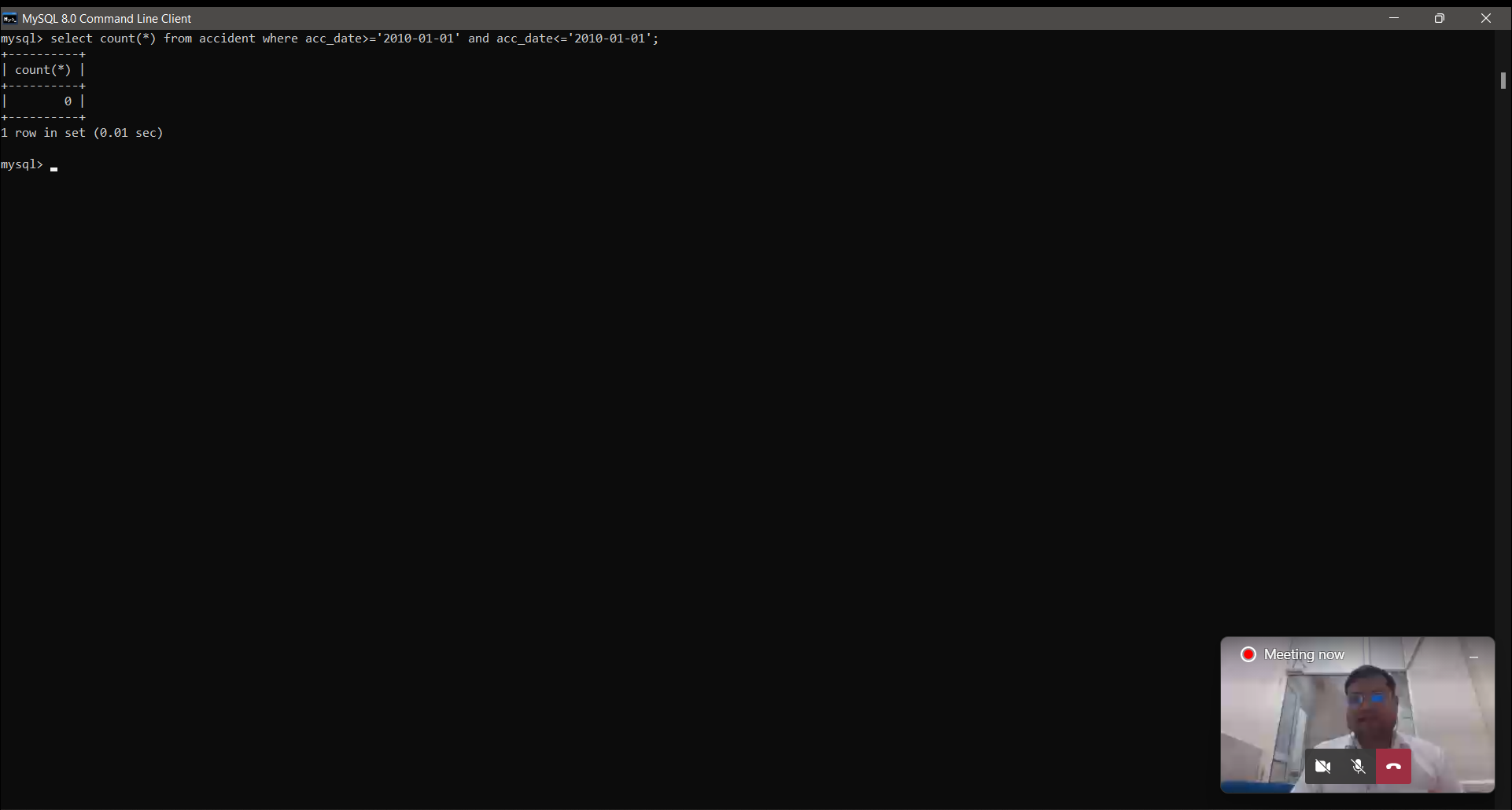












**14.Consider the following schema of a library management system .Write the SQL queries for the questions given below;**

**Student(Stud\_no : integer, Stud\_name: string)**

**Membership(Mem\_no: integer, Stud\_no: integer)**

**Book\_(book\_no: integer, book\_name:string, author: string)**

**lss\_rec\_(iss\_no:integer, iss\_date: date, Mem\_no: integer, book\_no: integer)**

**(i)Create the tables with the appropriate integrity constraints**

**(ii) Insert around 10 records in each of the tables**

**(iii)Display all records for all tables**

**(iv)List all the student names with their membership numbers**

**(v) List all the issues for the current date with student and Book names CO7 Bachelor of Computer Applications**

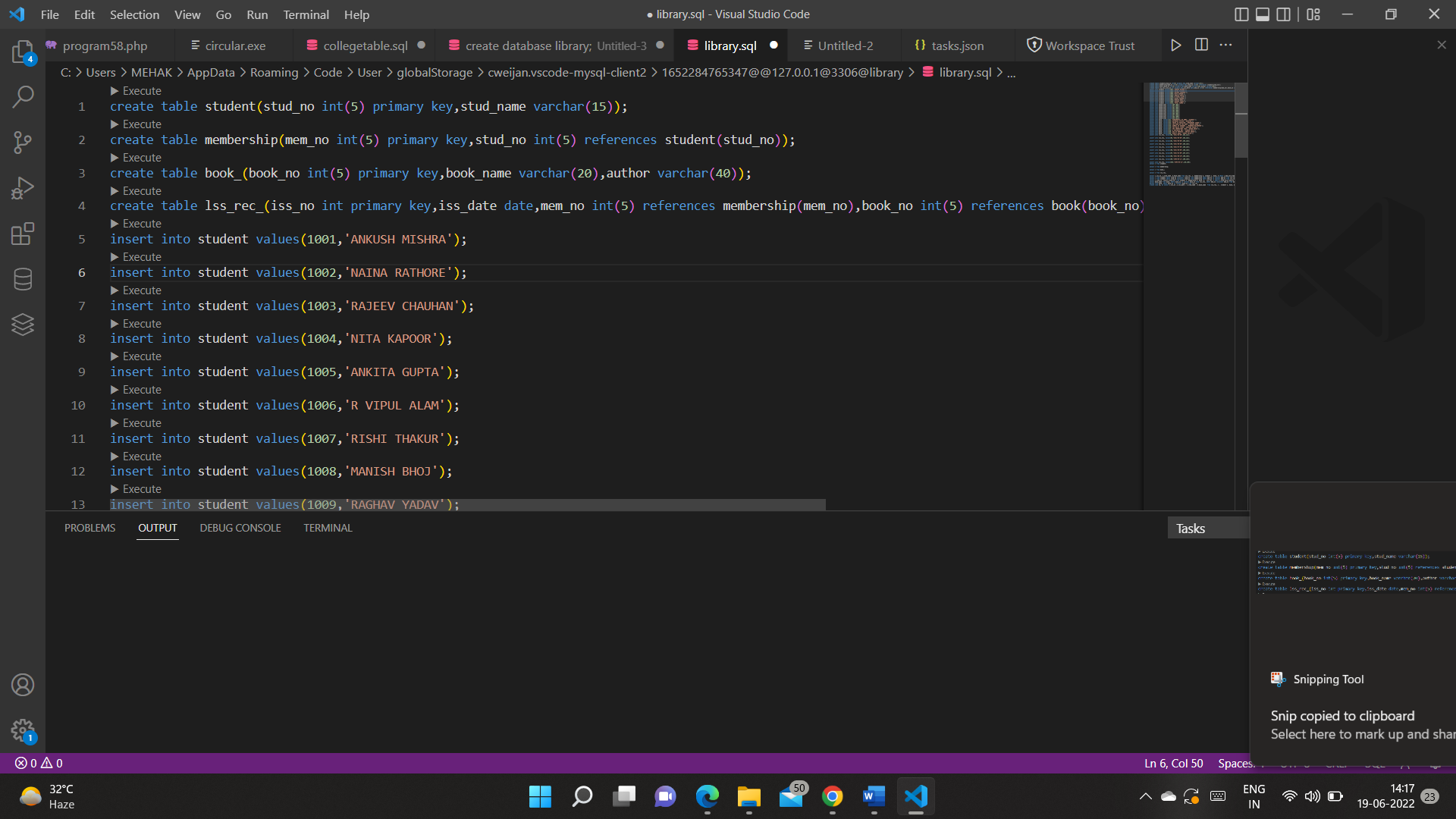
**(vi) List the details of students who borrowed book whose author is Elmarsi & Navathe**

**(vii) Give a count of how many books have been bought by each student**

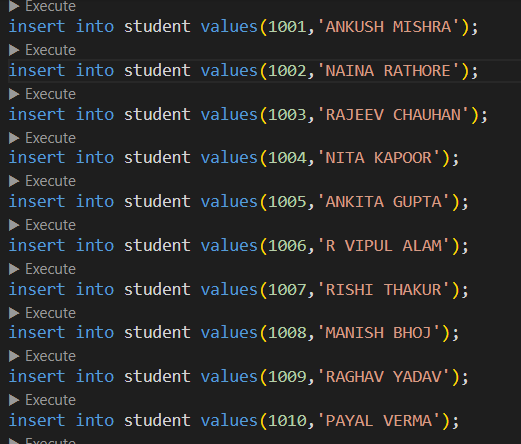
**(viii) Give a list of books taken by student with stud\_no as 1005**

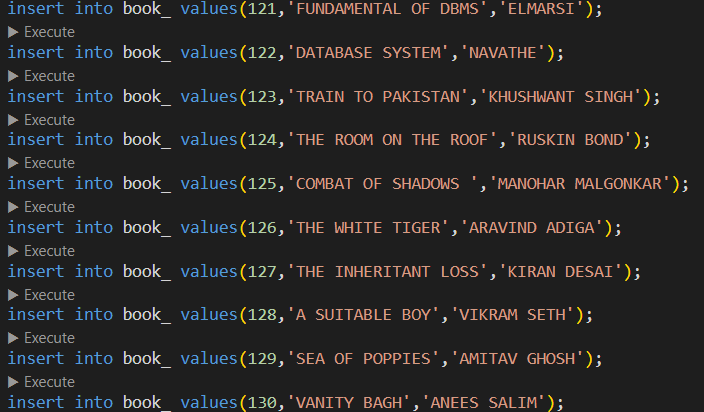
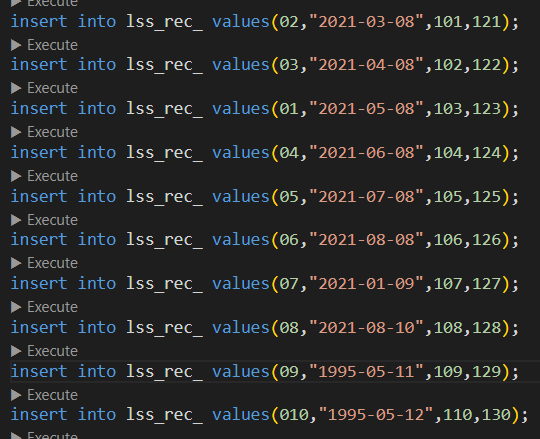
**(ix) Delete the List of books details which are issued as of today**

**(x) Create a view which lists out the iss\_no, iss \_date, stud\_name, book name**

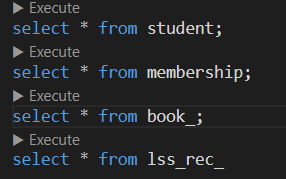
**(i)**

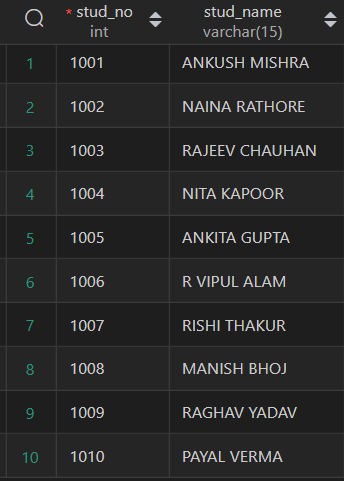
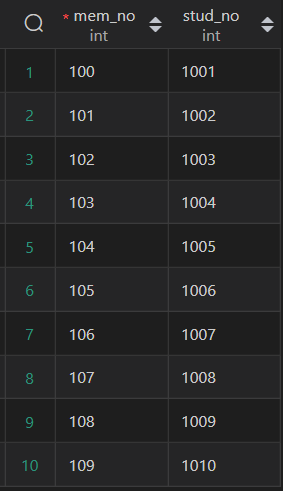
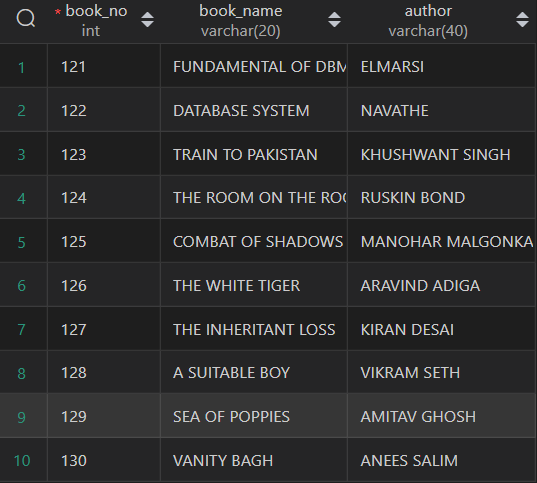
**(ii)**

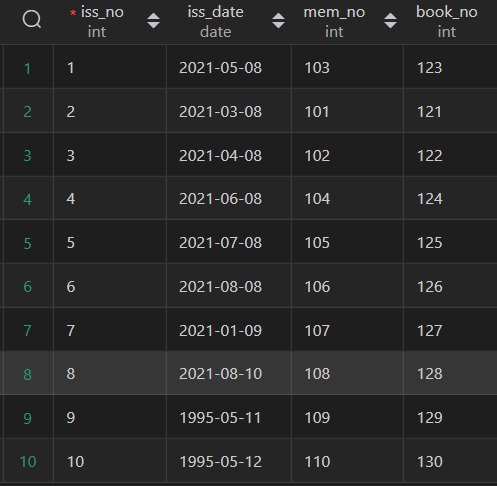
** **

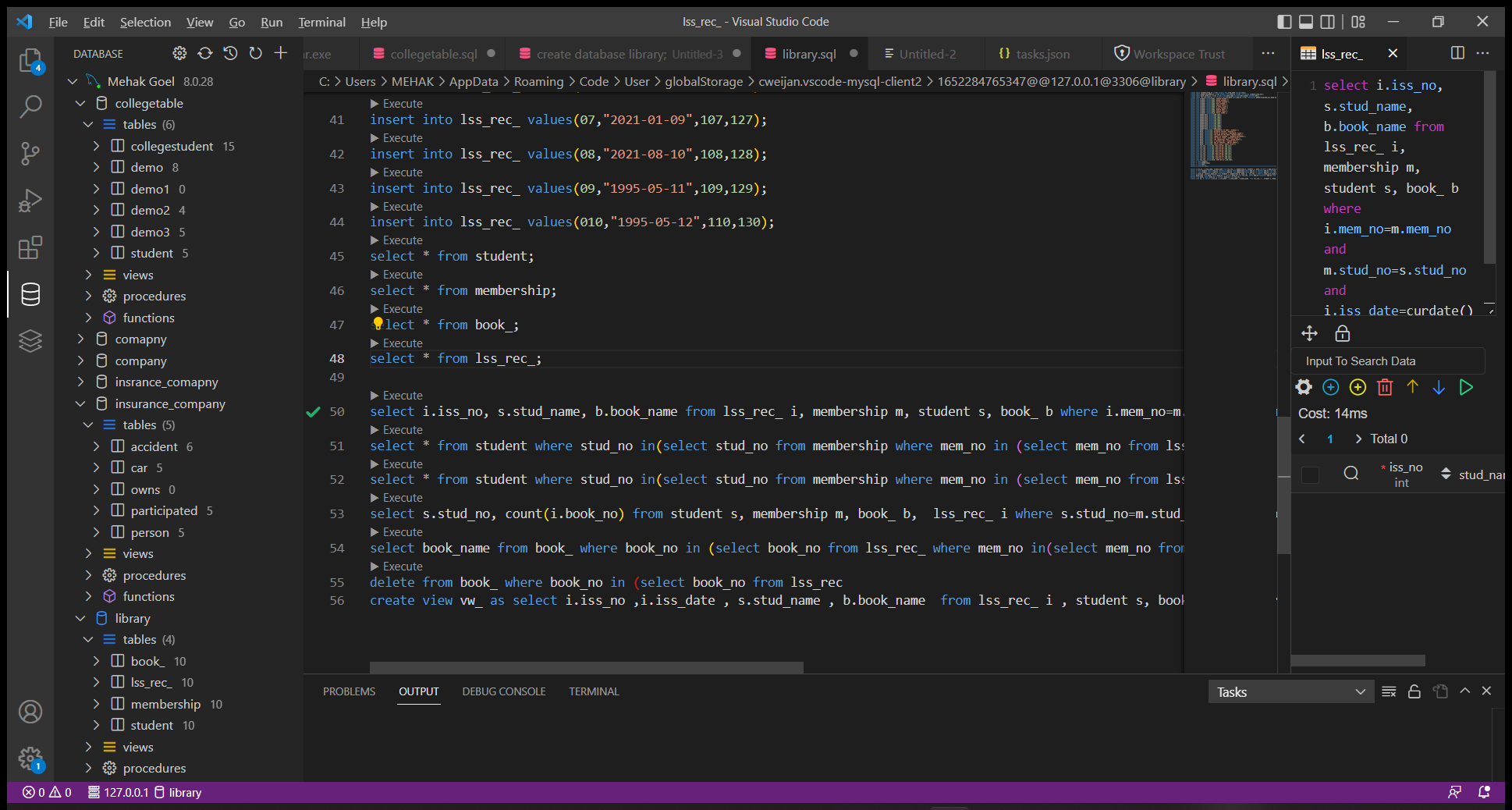
** **

**(iii)**

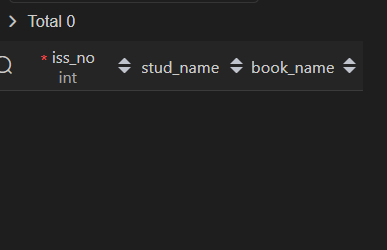
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**  **

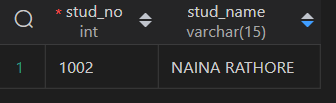
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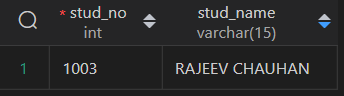
**(iv)**

**(v)**

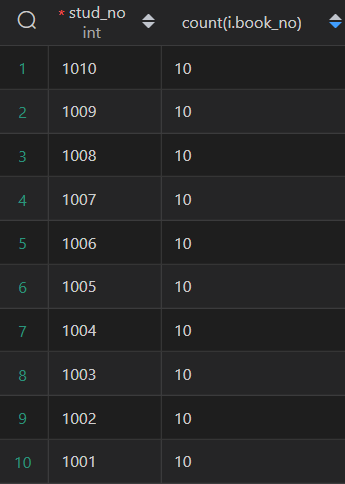
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**(vi)**

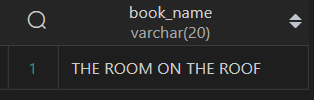
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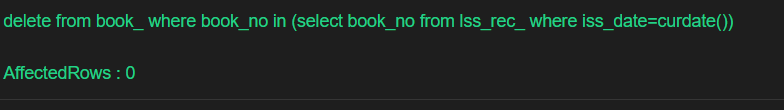
**(vii)**

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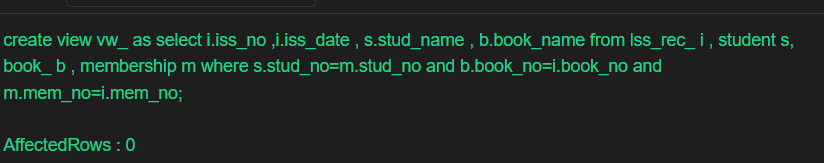
**(viii)**

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**(ix)**

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**(x)**

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