SMARTBRIDGE ASSIGNMENT - 2

Modern Application Development (Java Spring Boot)

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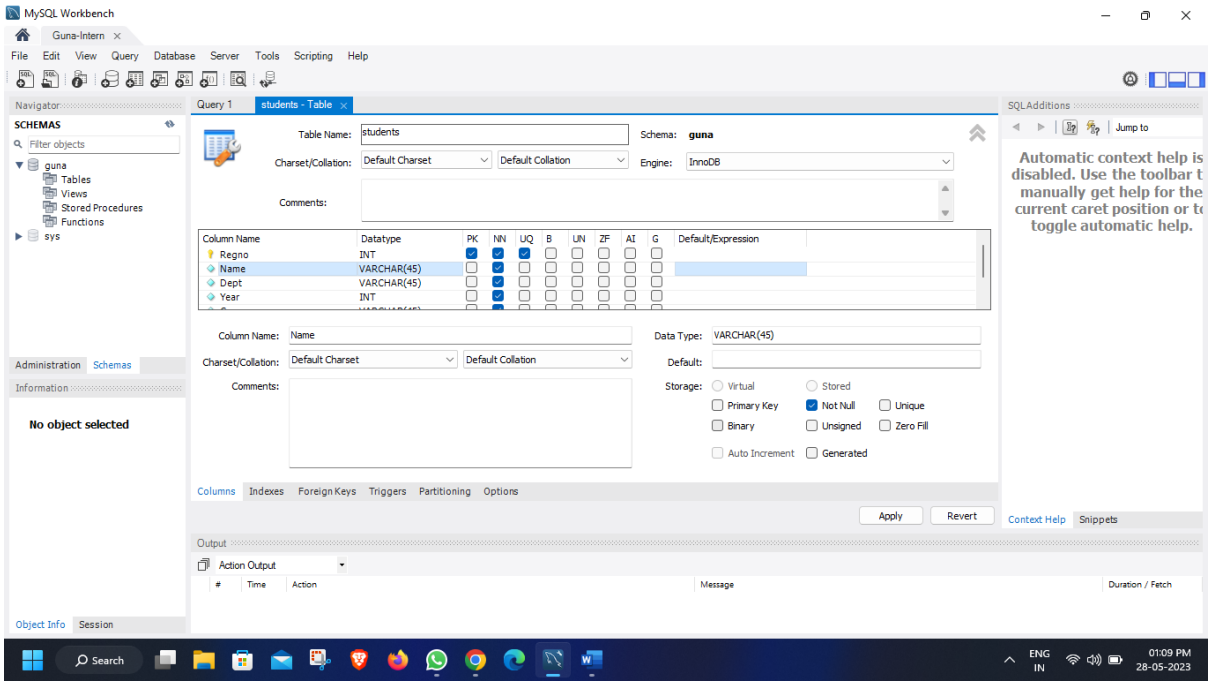
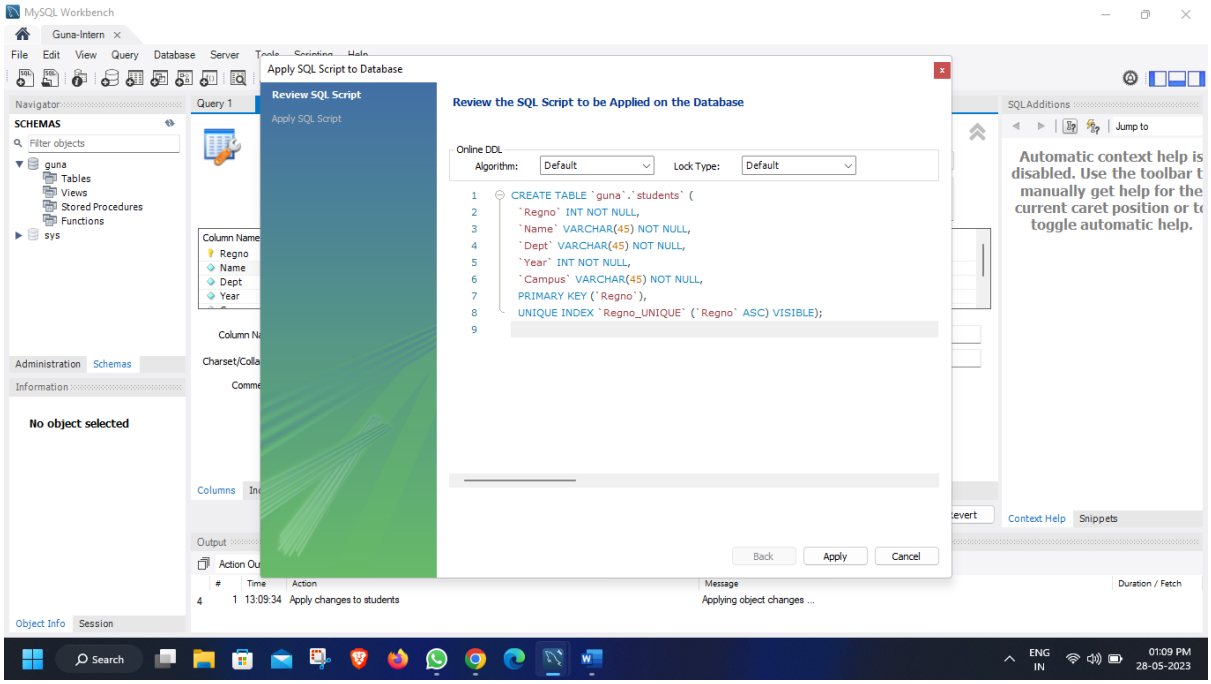
Task:-

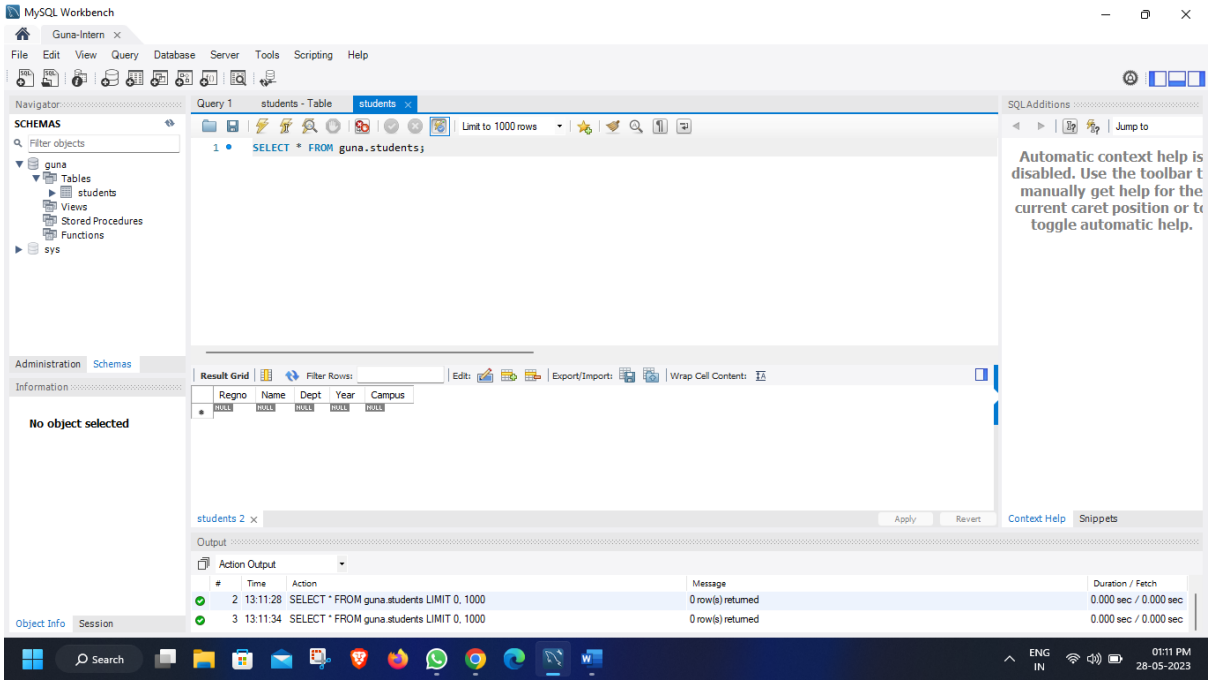
1.Create table, insert, update, delete and alter commands in MySQL.

Create Table:

```
CREATE TABLE `guna`.`students` (
  `Regno` INT NOT NULL,
  `Name` VARCHAR(45) NOT NULL,
  `Dept` VARCHAR(45) NOT NULL,
  `Year` INT NOT NULL,
  `Campus` VARCHAR(45) NOT NULL,
  PRIMARY KEY (`Regno`),
  UNIQUE INDEX `Regno_UNIQUE` (`Regno` ASC) VISIBLE);
```

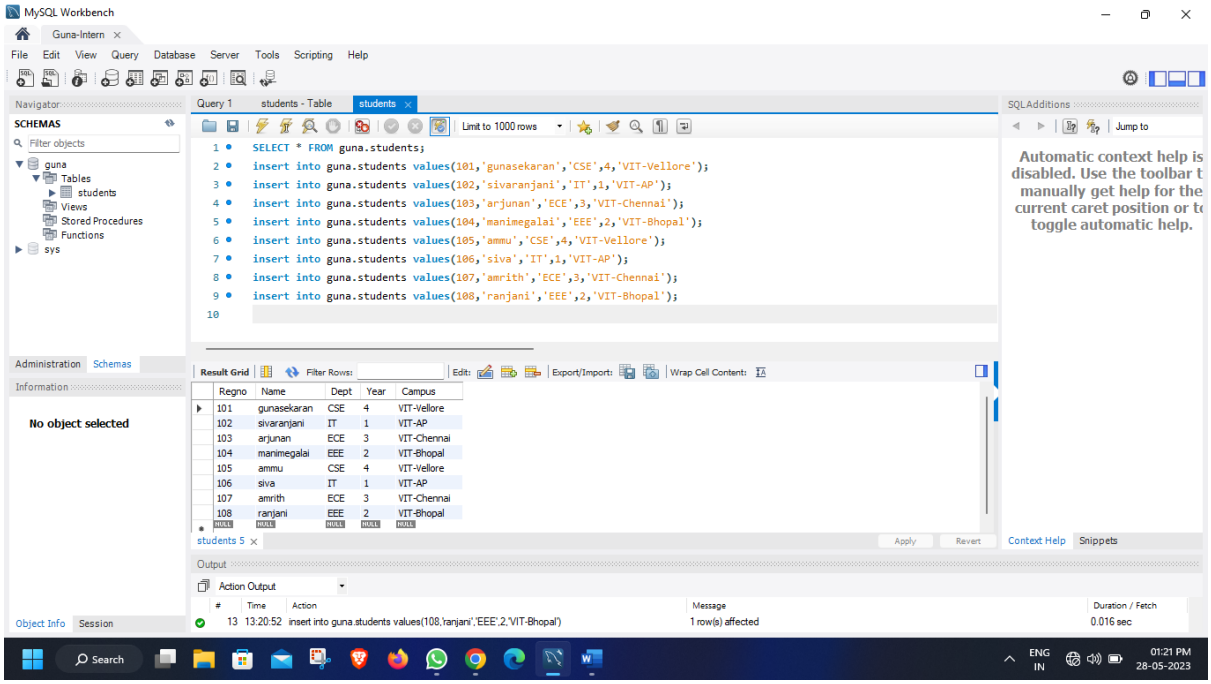






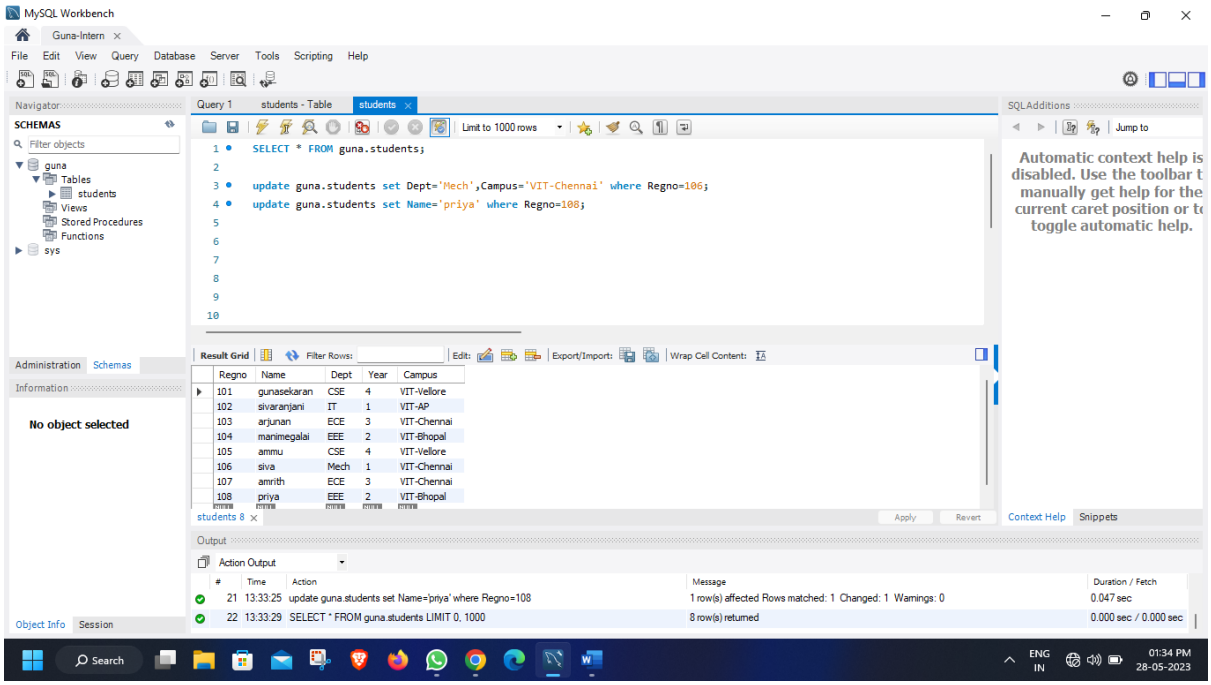
Insert Values:

insert into guna.students values(101,'gunasekaran','CSE',4,'VIT-Vellore');
insert into guna.students values(102,'sivaranjani','IT',1,'VIT-AP');
insert into guna.students values(103,'arjunan','ECE',3,'VIT-Chennai');
insert into guna.students values(104,'manimegalai','EEE',2,'VIT-Bhopal');
insert into guna.students values(105,'ammu','CSE',4,'VIT-Vellore');
insert into guna.students values(106,'siva','IT',1,'VIT-AP');
insert into guna.students values(107,'amrith','ECE',3,'VIT-Chennai');
insert into guna.students values(108,'ranjani','EEE',2,'VIT-Bhopal');



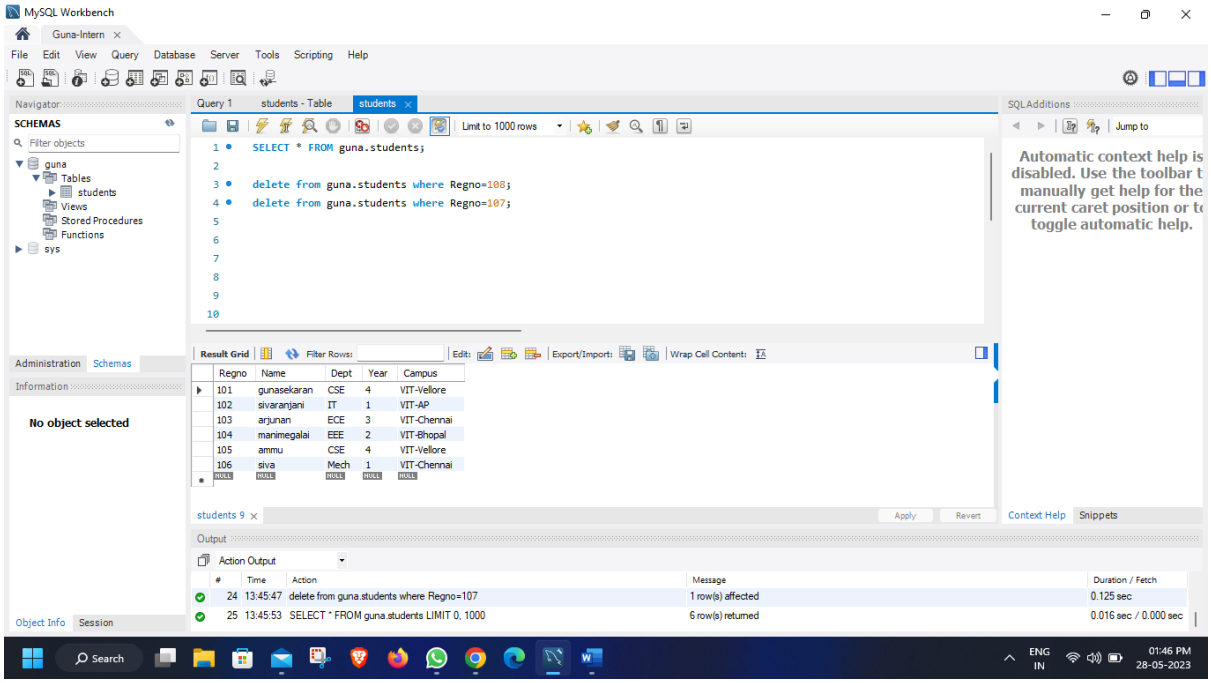
Update:

update guna.students set Dept='Mech',Campus='VIT-Chennai' where Regno=106;
update guna.students set Name='priya' where Regno=108;



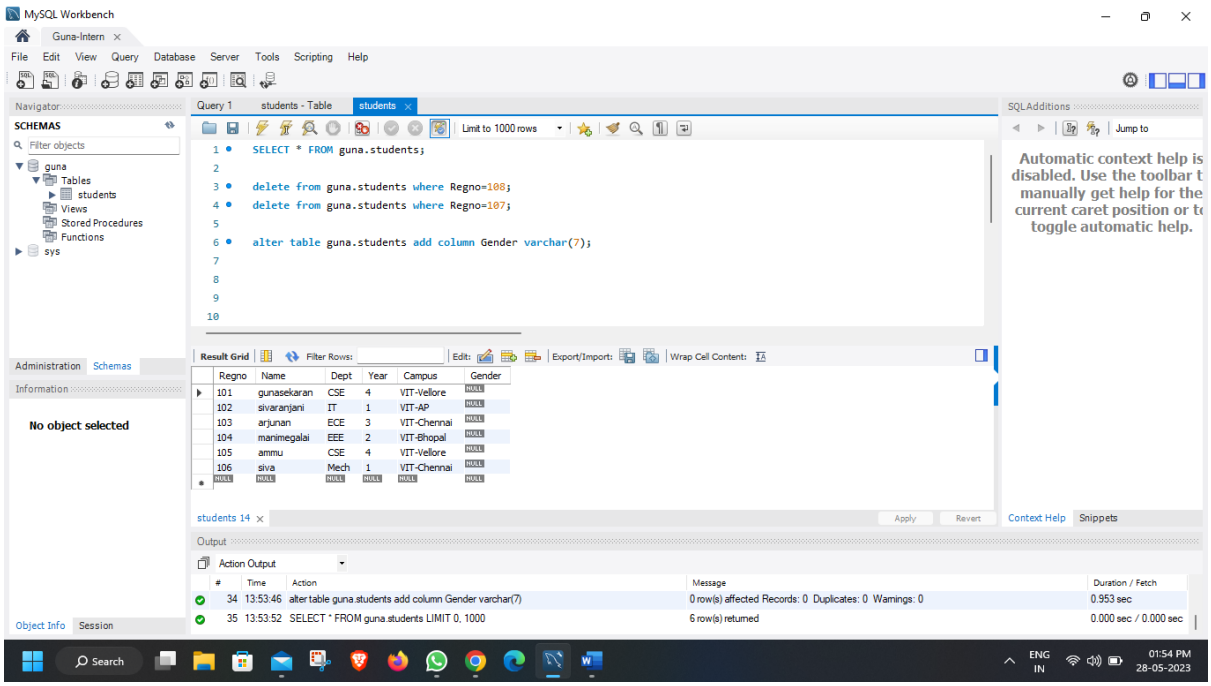
Delete:

delete from guna.students where Regno=108;
delete from guna.students where Regno=107;



Alter:

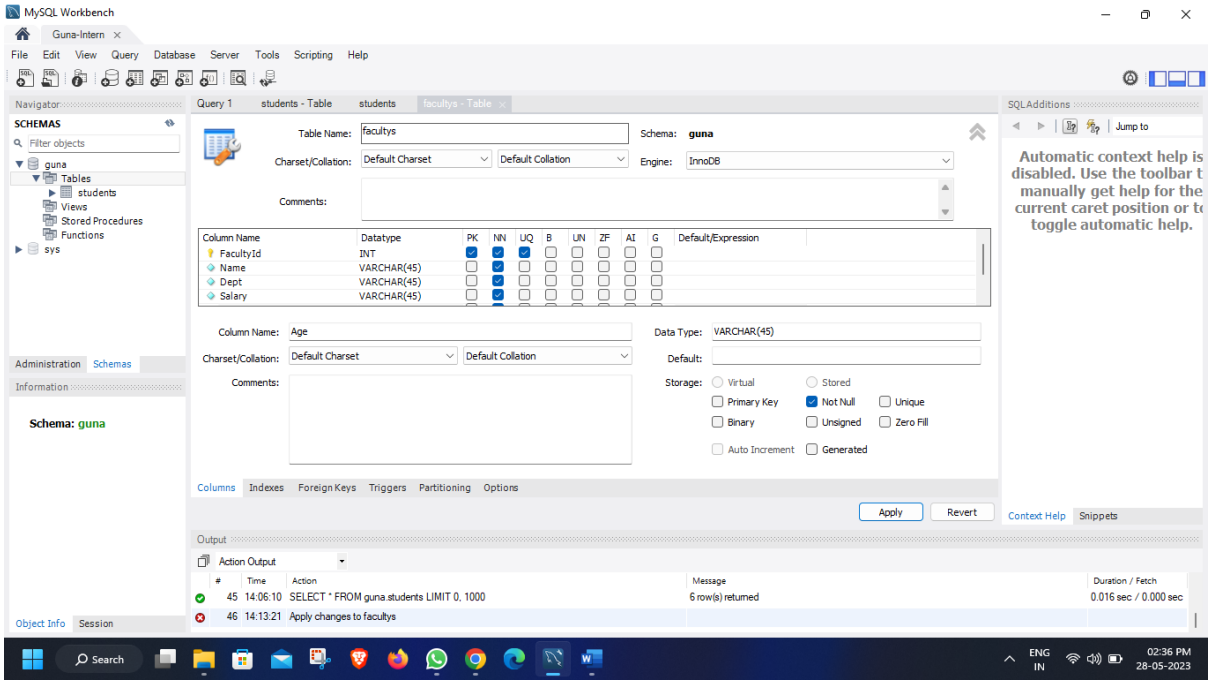
alter table guna.students add column Gender varchar(7);

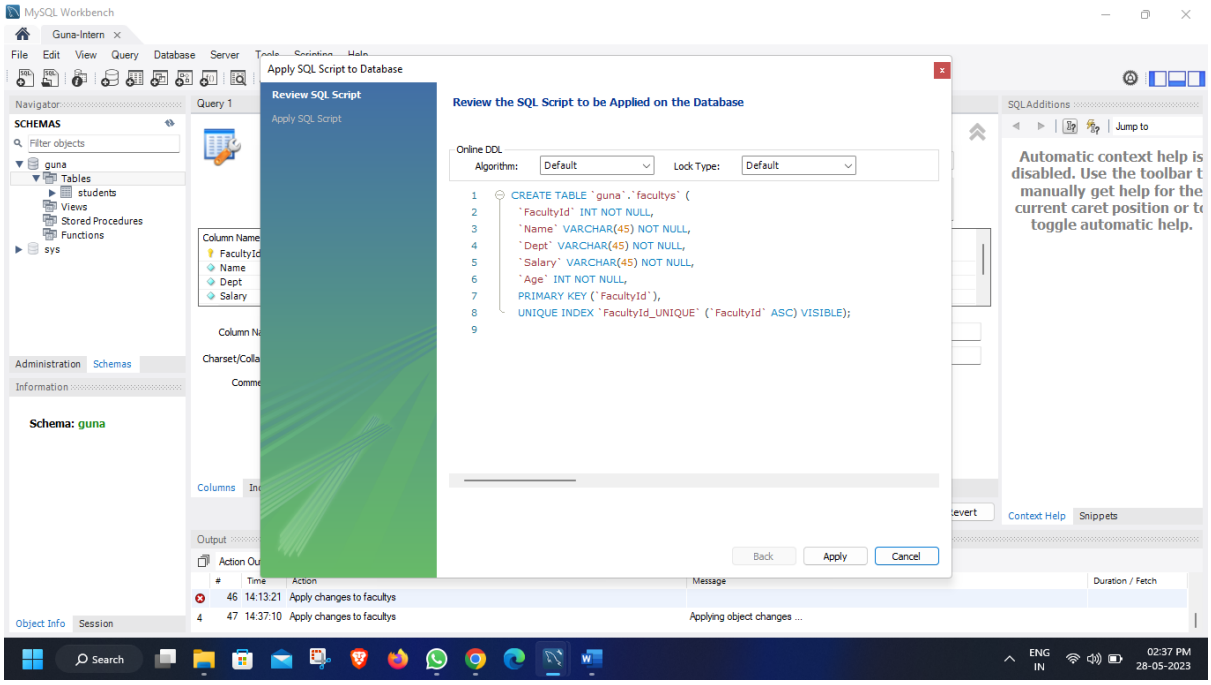


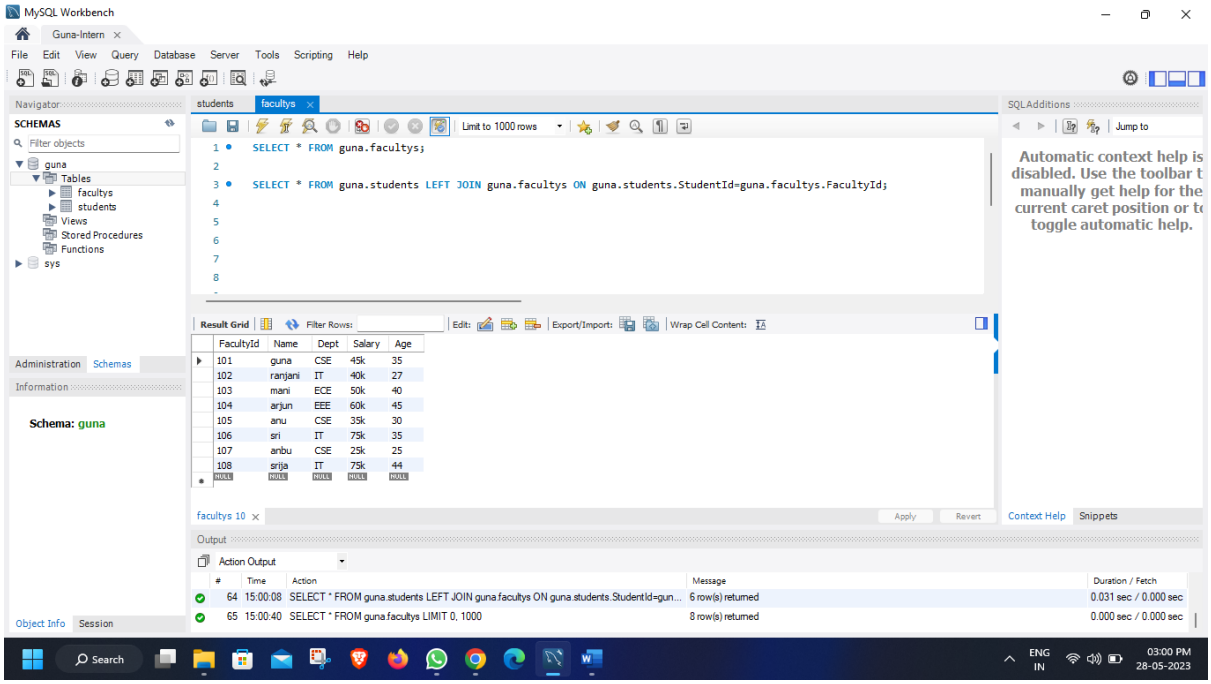
2.Create table and perform joins in MySQL.

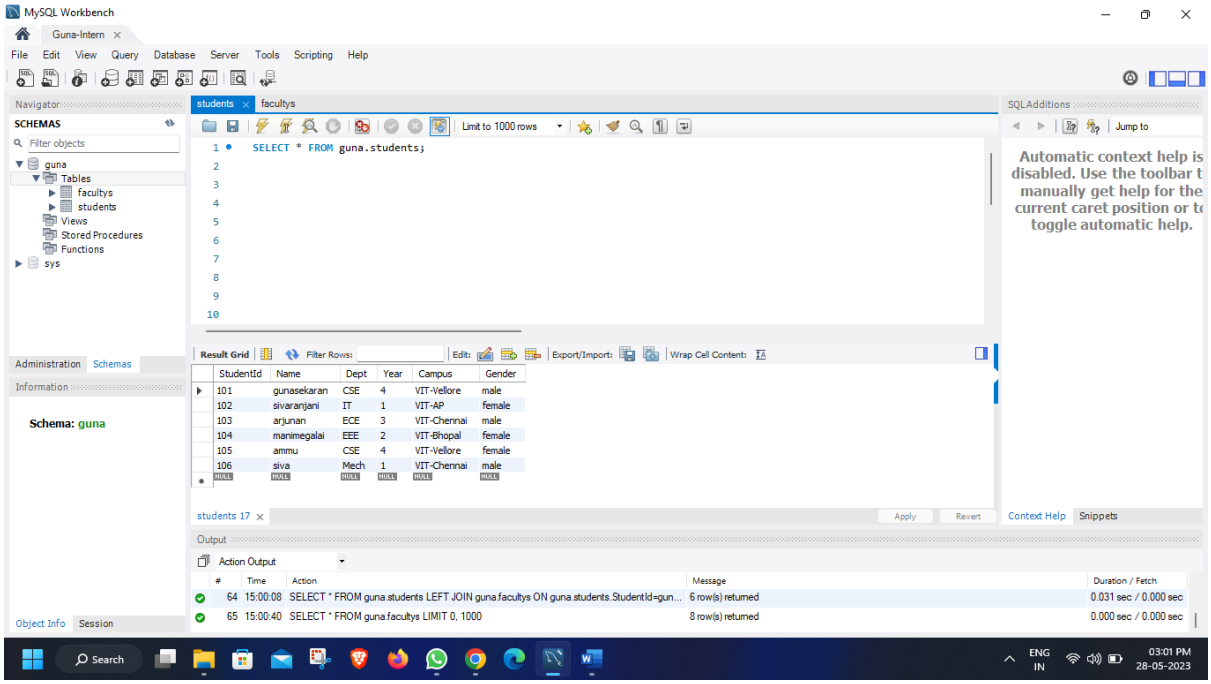
Create Table:

```
CREATE TABLE `guna`.`facultys` (
  `FacultyId` INT NOT NULL,
  `Name` VARCHAR(45) NOT NULL,
  `Dept` VARCHAR(45) NOT NULL,
  `Salary` VARCHAR(45) NOT NULL,
  `Age` INT NOT NULL,
  PRIMARY KEY (`FacultyId`),
  UNIQUE INDEX `FacultyId_UNIQUE` (`FacultyId` ASC) VISIBLE);
```







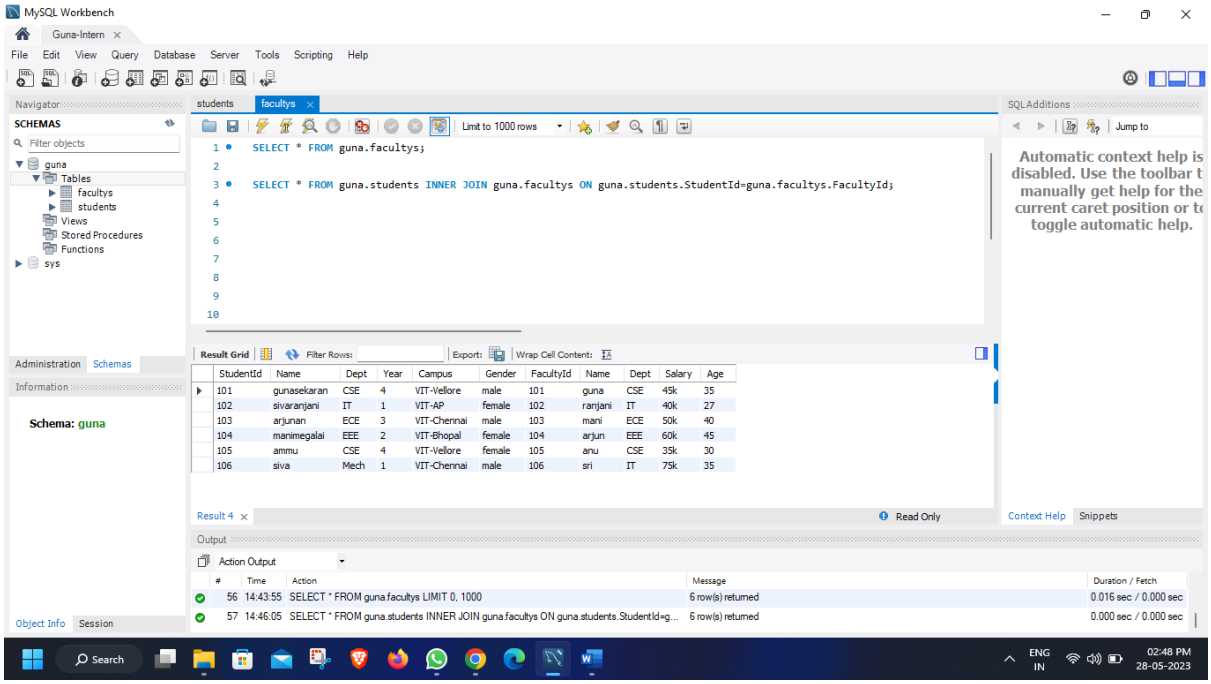


Inner Join:

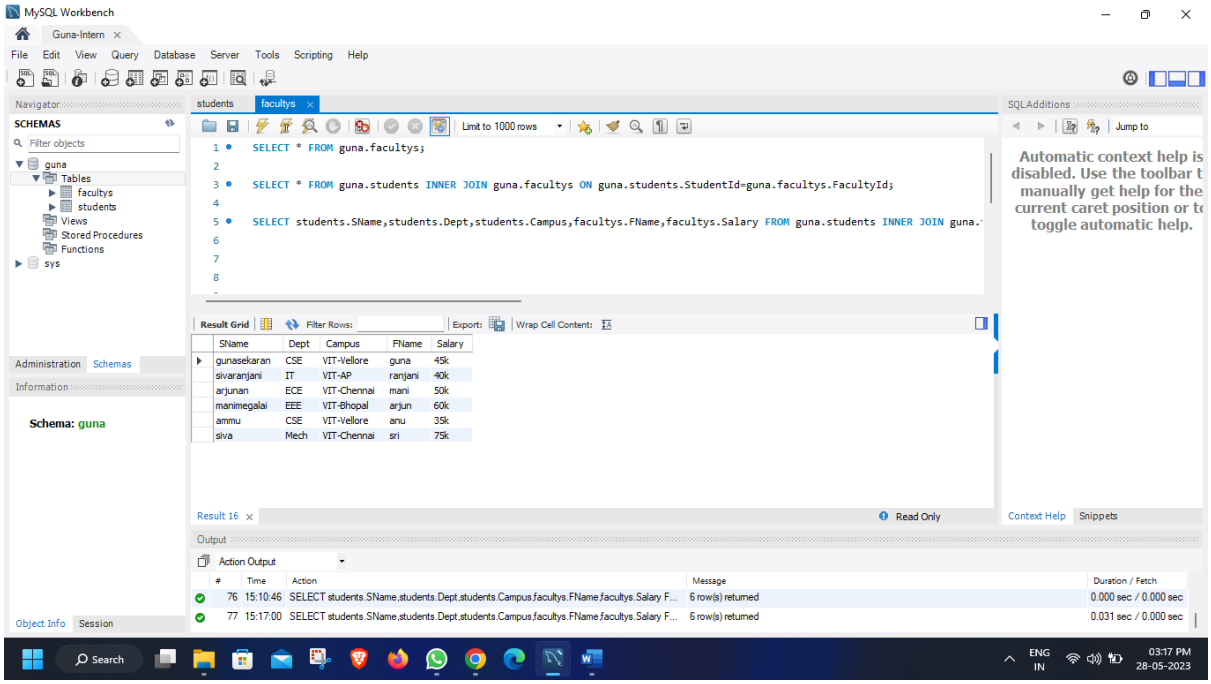
SELECT * FROM guna.students INNER JOIN guna.facultys ON guna.students.StudentId= guna.facultys.FacultyId;

(or)

SELECT students.SName,students.Dept,students.Campus,facultys.FName,facultys.Salary FROM guna.students INNER JOIN guna.facultys ON guna.students.StudentId= guna.facultys.FacultyId;



(or)

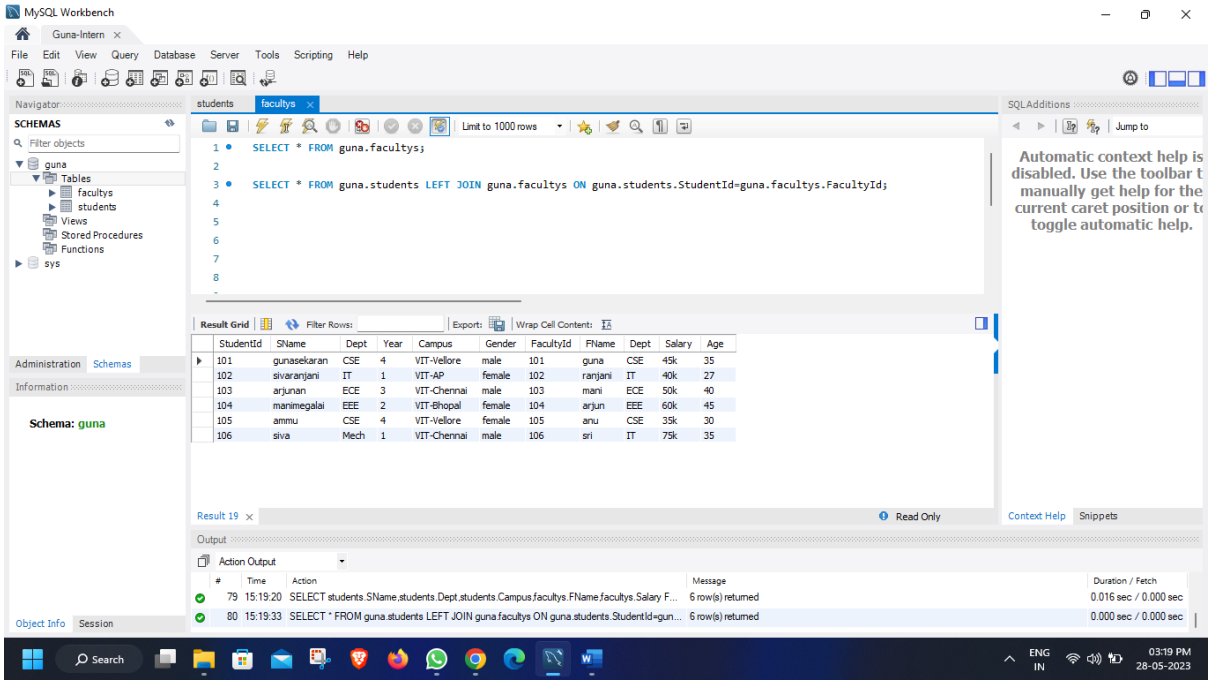


Left Join:

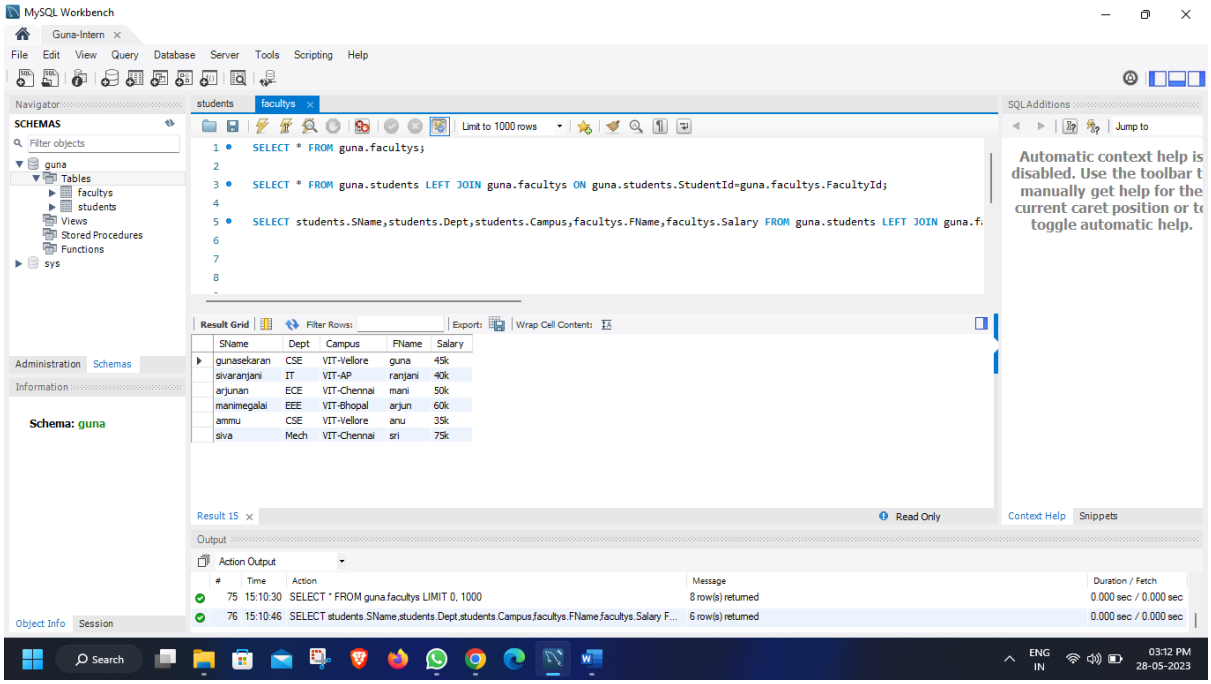
SELECT * FROM guna.students LEFT JOIN guna.facultys ON guna.students.StudentId= guna.facultys.FacultyId;

(or)

SELECT students.SName,students.Dept,students.Campus,facultys.FName,facultys.Salary FROM guna.students LEFT JOIN guna.facultys ON guna.students.StudentId= guna.facultys.FacultyId;



(or)

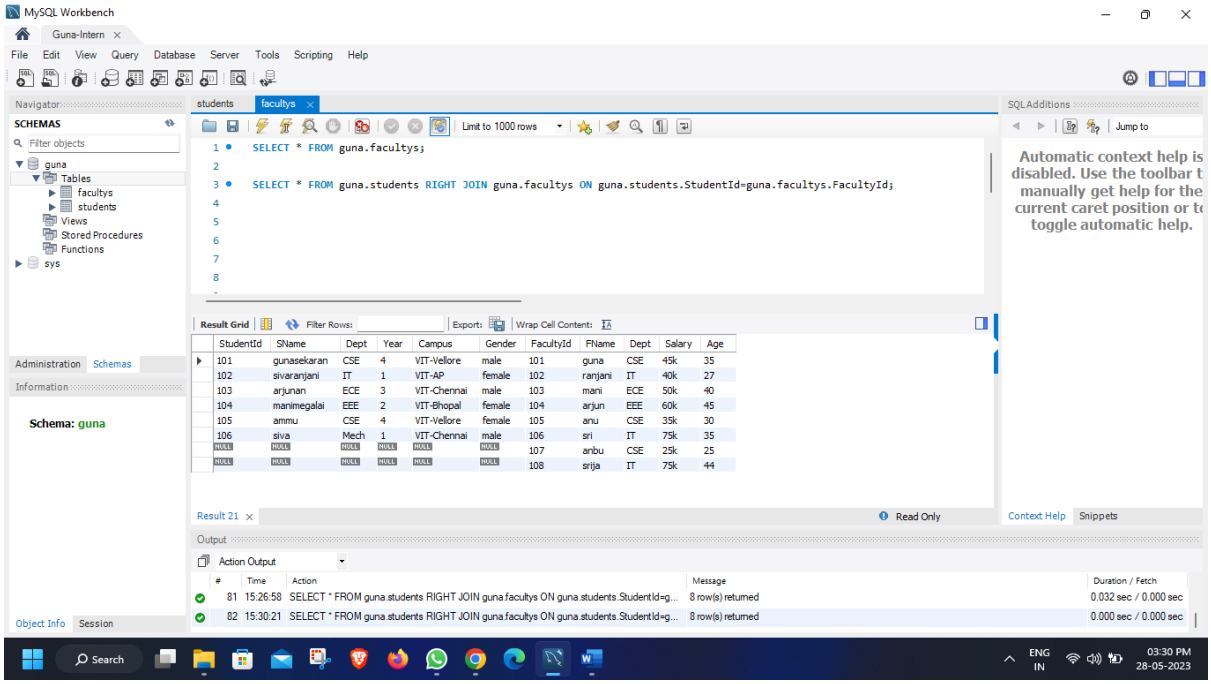


Right Join:

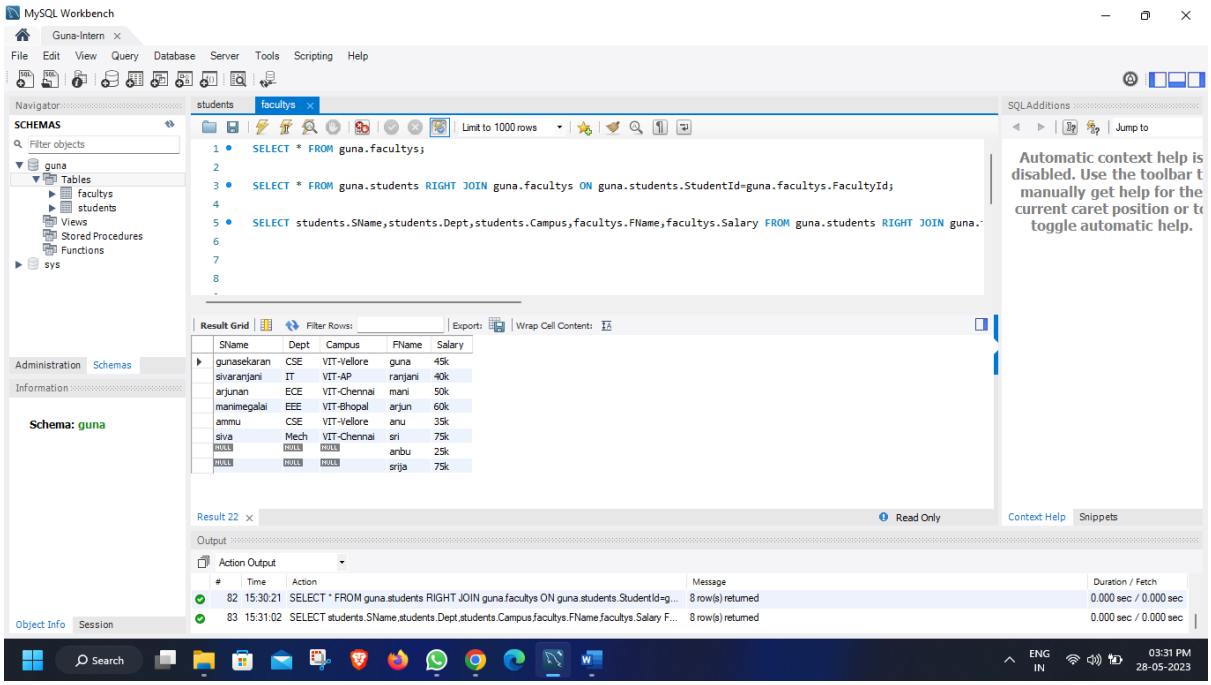
SELECT * FROM guna.students RIGHT JOIN guna.facultys ON guna.students.StudentId= guna.facultys.FacultyId;

(or)

SELECT students.SName,students.Dept,students.Campus,facultys.FName,facultys.Salary FROM guna.students RIGHT JOIN guna.facultys ON guna.students.StudentId= guna.facultys.FacultyId;


MySQL Workbench
Guna-Intern
File Edit View Query Database Server Tools Scripting Help
SCHEMAS
guna
Tables
facultys
students
Views
Stored Procedures
Functions
sys
1 SELECT * FROM guna.facultys;
3 SELECT * FROM guna.students RIGHT JOIN guna.facultys ON guna.students.StudentId=guna.facultys.FacultyId;
Result Grid
StudentId SName Dept Year Campus Gender FacultyId FName Dept Salary Age
101 gunasekaran CSE 4 VIT-Vellore male 101 guna CSE 45k 35
102 sivaranjani IT 1 VIT-AP female 102 ranjani IT 40k 27
103 arjunan ECE 3 VIT-Chennai male 103 mani ECE 50k 40
104 manimegalai EEE 2 VIT-Bhopal female 104 arjun EEE 60k 45
105 ammu CSE 4 VIT-Vellore female 105 anu CSE 35k 30
106 siva Mech 1 VIT-Chennai male 106 sri IT 75k 35
107 anbu CSE 25k 25
108 srija IT 75k 44
Result 21
Read Only
Output
Action Output
81 15:26:58 SELECT * FROM guna.students RIGHT JOIN guna.facultys ON guna.students.StudentId=g... 8 row(s) returned 0.032 sec / 0.000 sec
82 15:30:21 SELECT * FROM guna.students RIGHT JOIN guna.facultys ON guna.students.StudentId=g... 8 row(s) returned 0.000 sec / 0.000 sec
Schema: guna
Automatic context help is disabled. Use the toolbar t manually get help for the current caret position or t toggle automatic help.
Search
ENG IN
03:30 PM 28-05-2023

(or)


MySQL Workbench
Guna-Intern
File Edit View Query Database Server Tools Scripting Help
SCHEMAS
guna
Tables
facultys
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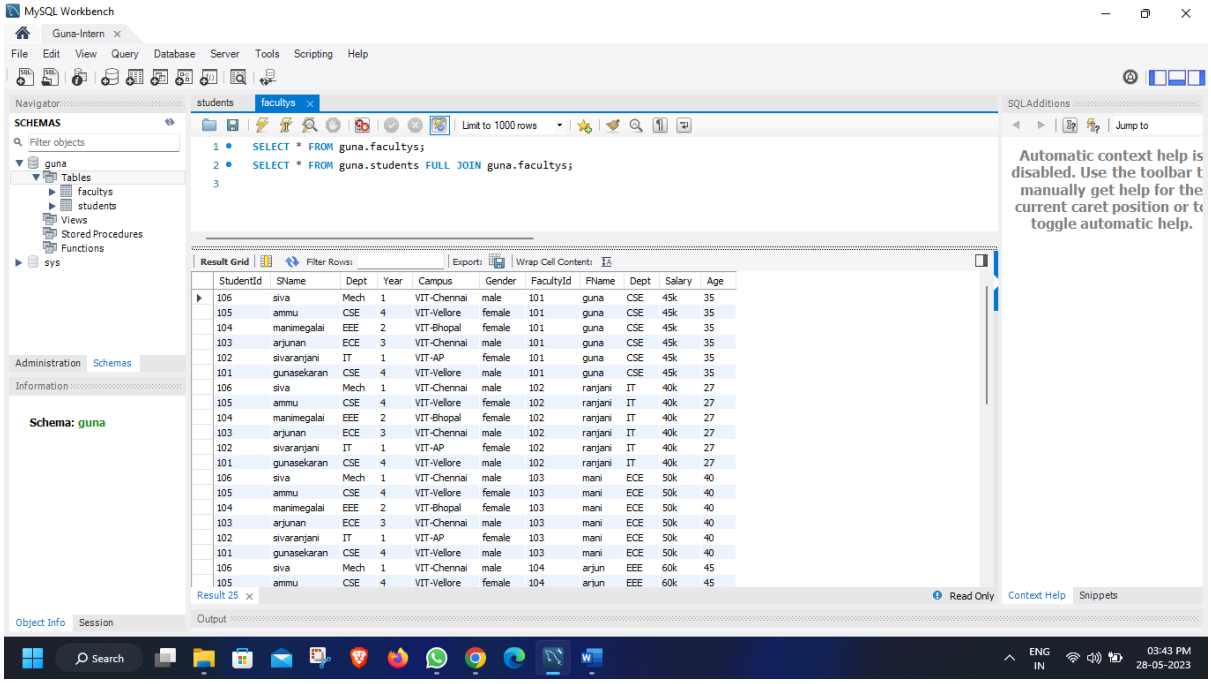
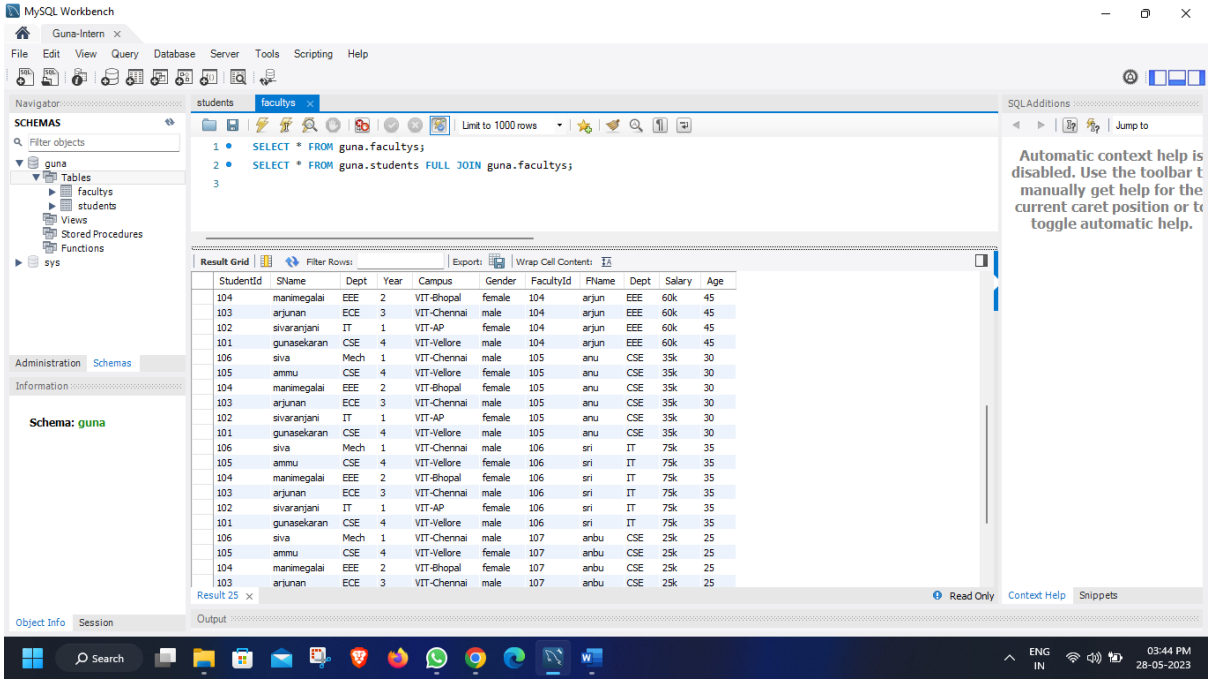
sys
1 SELECT * FROM guna.facultys;
3 SELECT * FROM guna.students RIGHT JOIN guna.facultys ON guna.students.StudentId=guna.facultys.FacultyId;
5 SELECT students.SName,students.Dept,students.Campus,facultys.FName,facultys.Salary FROM guna.students RIGHT JOIN guna.
Result Grid
SName Dept Campus FName Salary
gunasekaran CSE VIT-Vellore guna 45k
sivaranjani IT VIT-AP ranjani 40k
arjunan ECE VIT-Chennai mani 50k
manimegalai EEE VIT-Bhopal arjun 60k
ammu CSE VIT-Vellore anu 35k
siva Mech VIT-Chennai sri 75k
anbu 25k
srija 75k
Result 22
Read Only
Output
Action Output
82 15:30:21 SELECT * FROM guna.students RIGHT JOIN guna.facultys ON guna.students.StudentId=g... 8 row(s) returned 0.000 sec / 0.000 sec
83 15:31:02 SELECT students.SName,students.Dept,students.Campus,facultys.FName,facultys.Salary F... 8 row(s) returned 0.000 sec / 0.000 sec
Schema: guna
Search
ENG IN
03:31 PM 28-05-2023

Full Join:

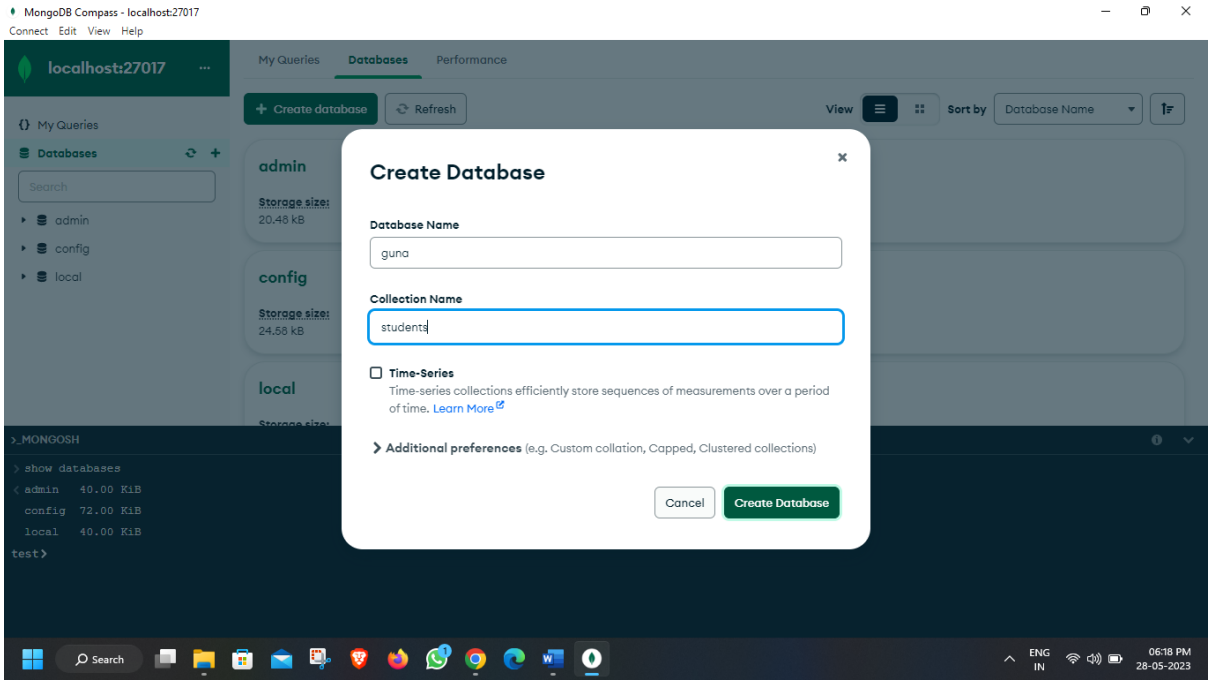
SELECT * FROM guna.students FULL JOIN guna.facultys;





3.Create table and insert, update, delete commands in Mongo.

Create Database:

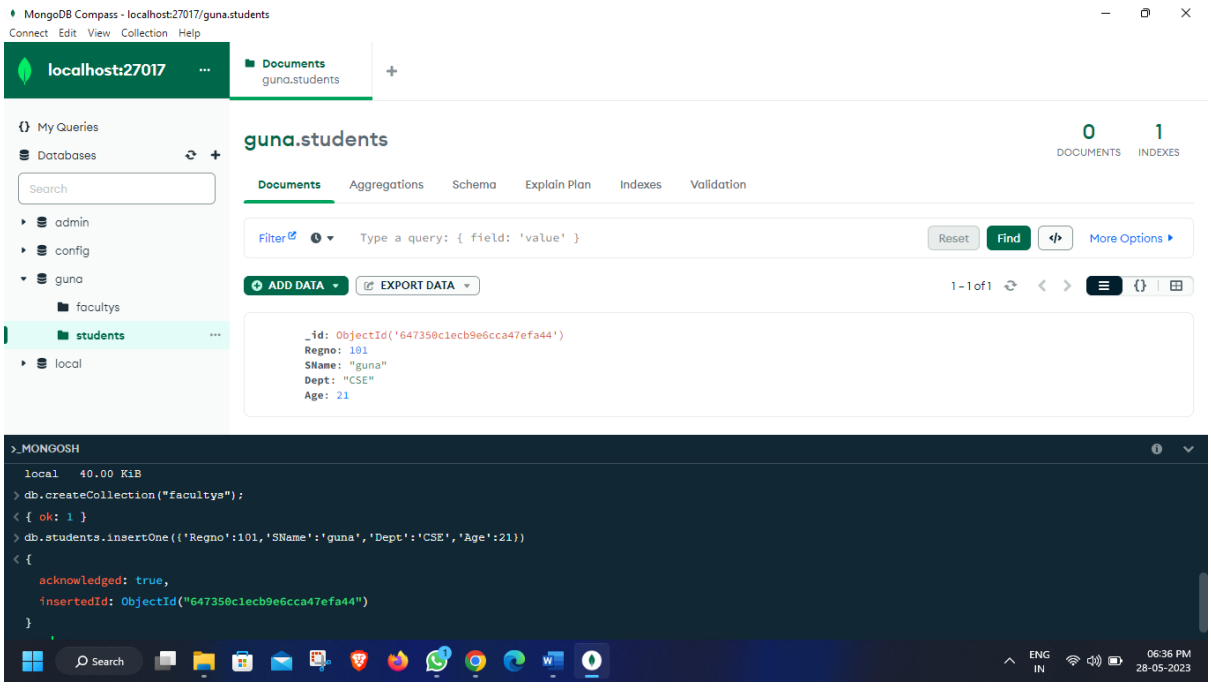


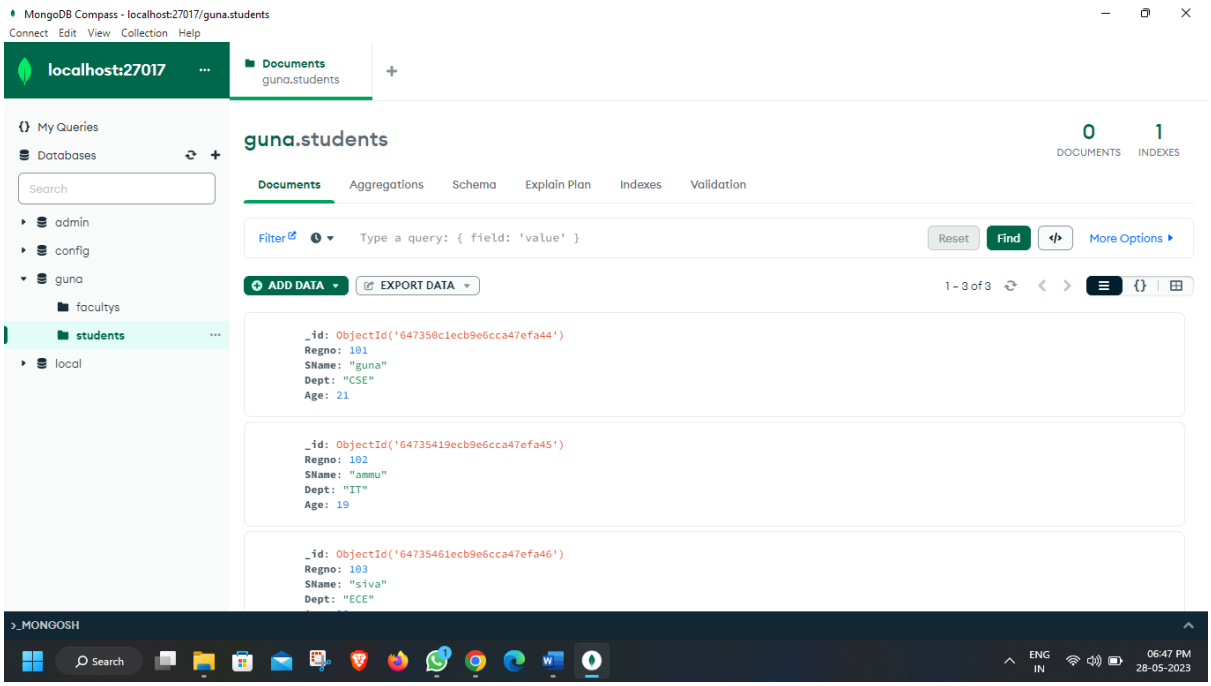
Create Collections:

db.createCollection("facultys");

Insert Values:

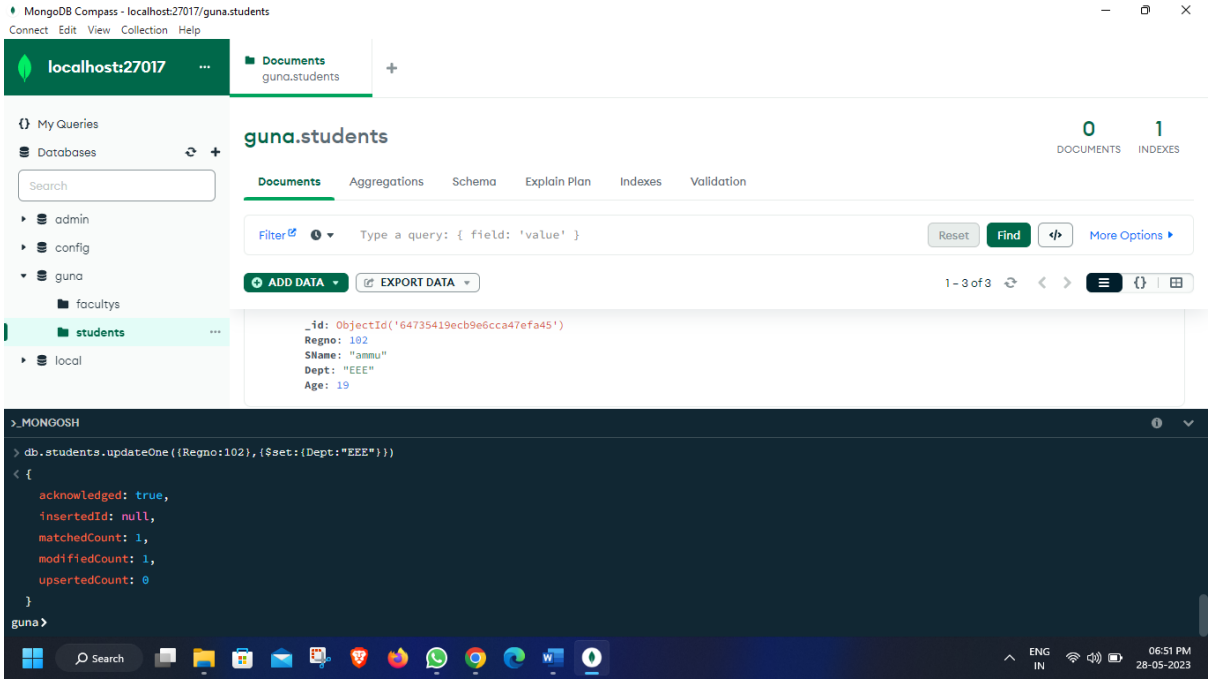
db.students.insertOne({'Regno':101,'SName':'guna','Dept':'CSE','Age':21})





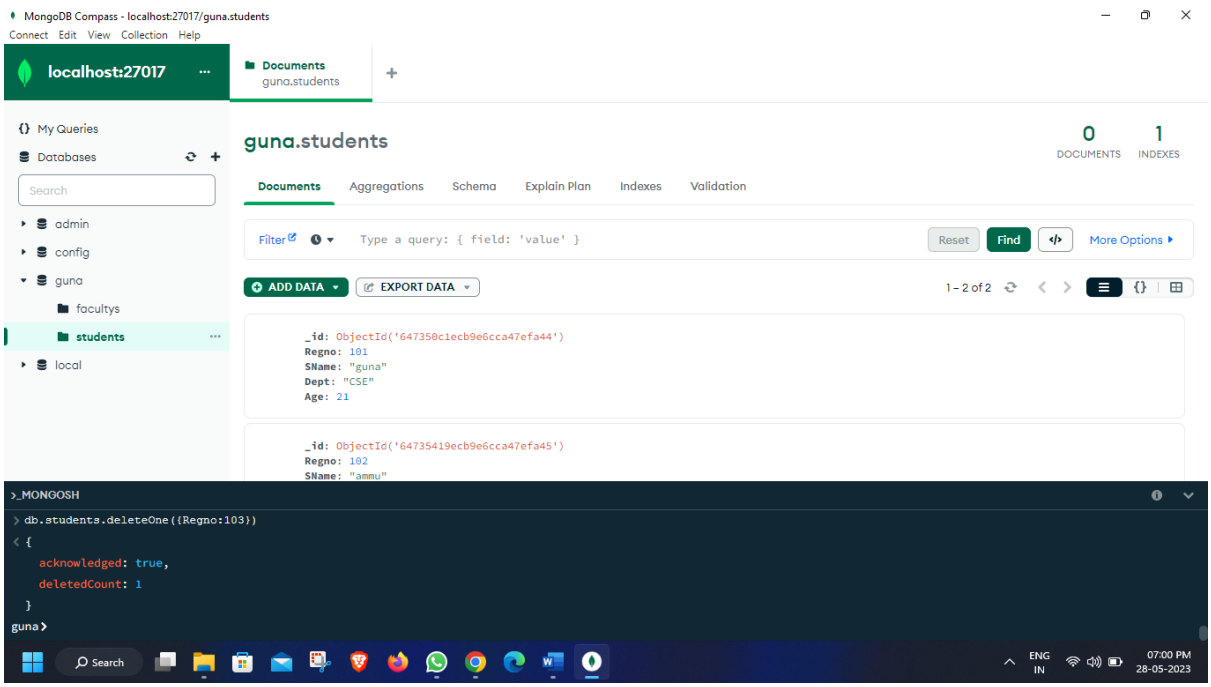
Update Values:

db.students.updateOne({Regno:102},{$set:{Dept:"EEE"}})



Delete values:

db.students.deleteOne({Regno:103})



Count of Documents:

db.students.countDocuments()