WEEK 2 ASSIGNMENT

Modern Application Development (Java Spring Boot)

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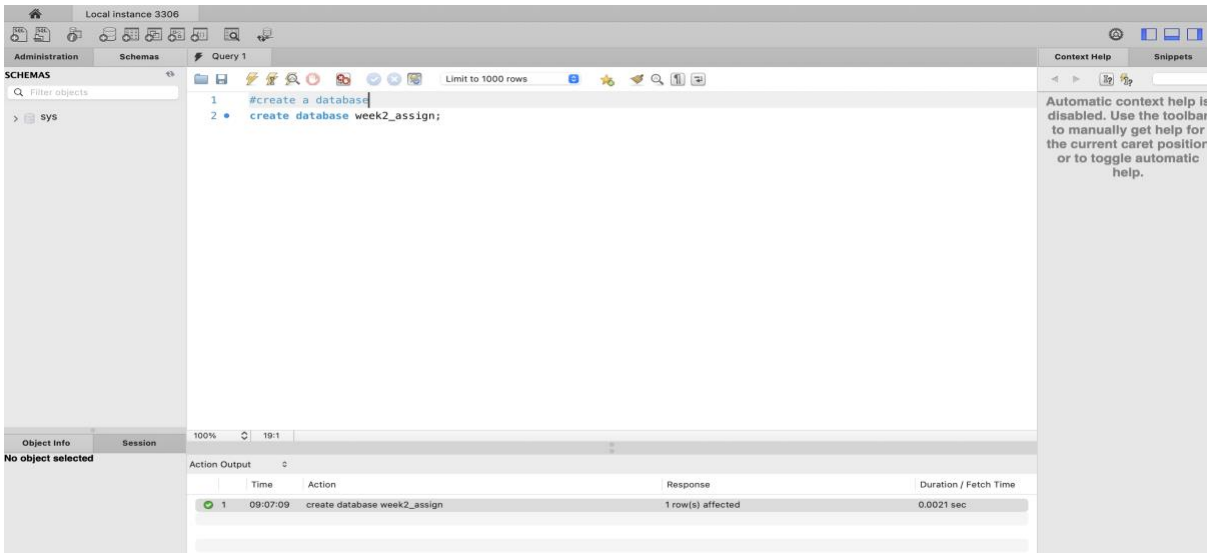
Reg.No.:20BCE0084

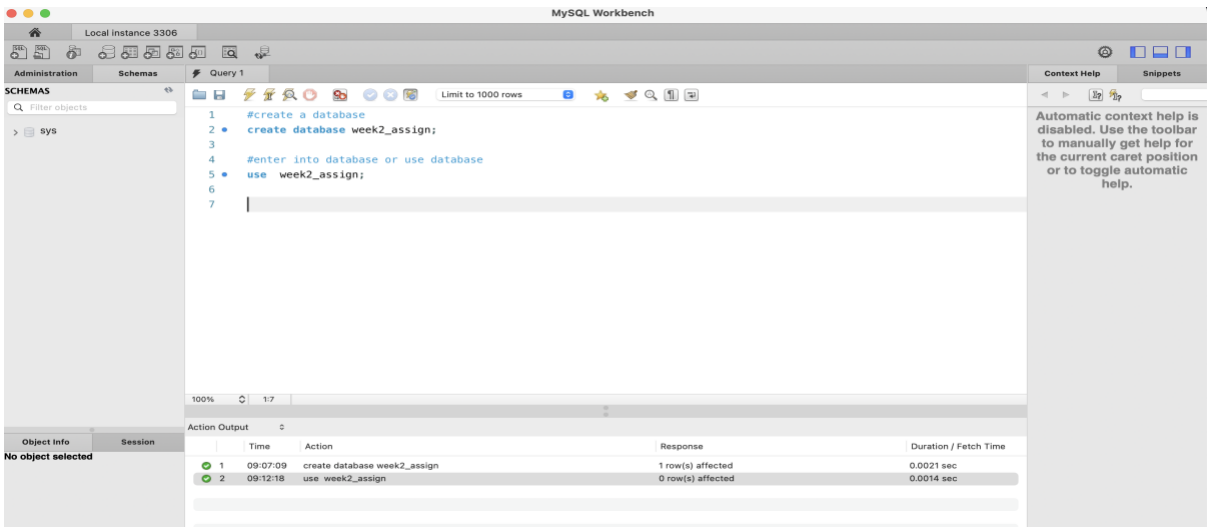
SQL:

CREATE UPDATE DELETE COMMANDS IN SQL

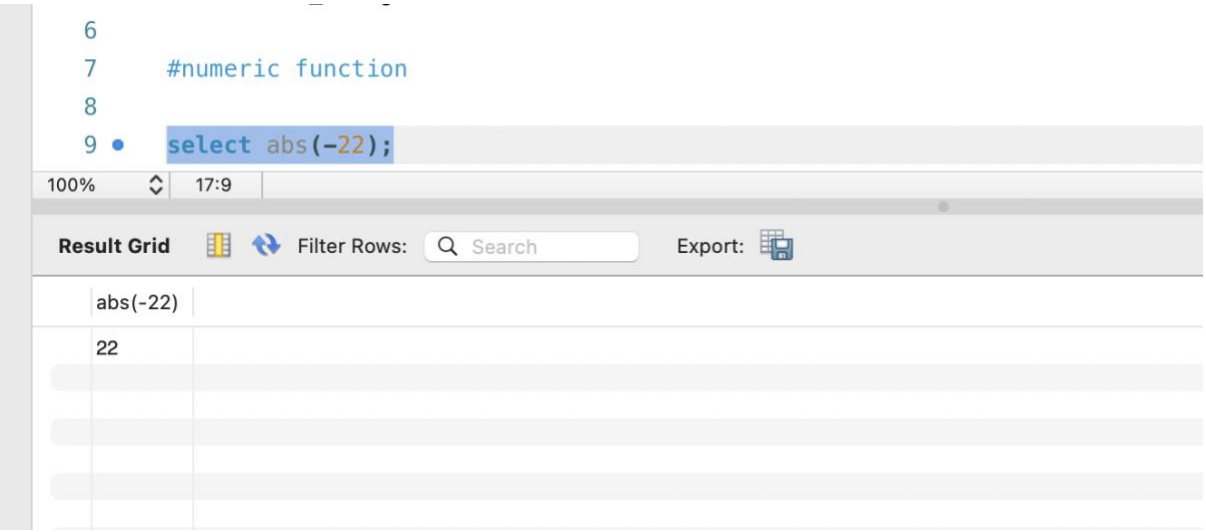
Create Database;



Use the database that is created



Example of numeric function



Find the created tables on the left side

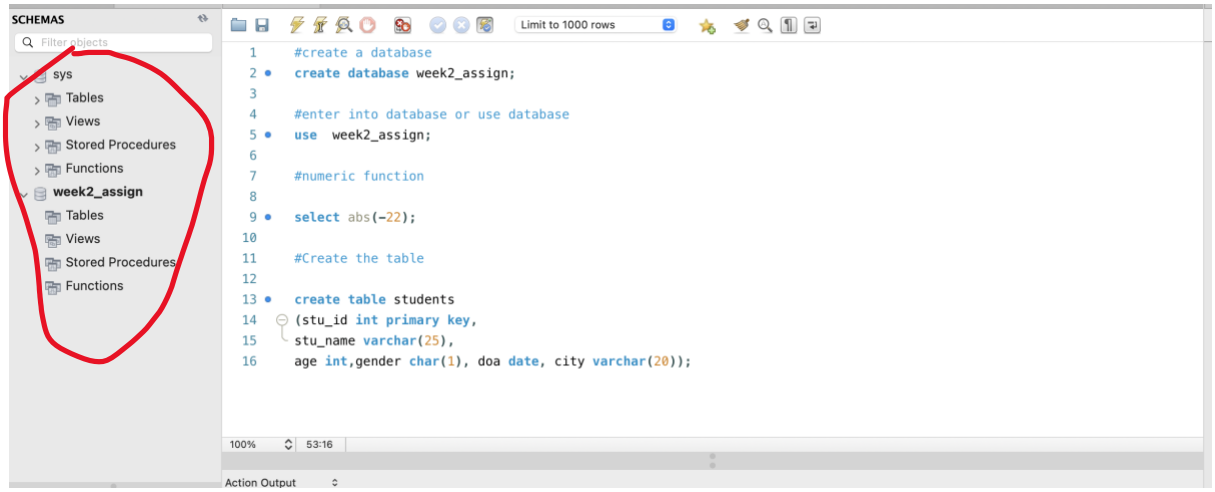
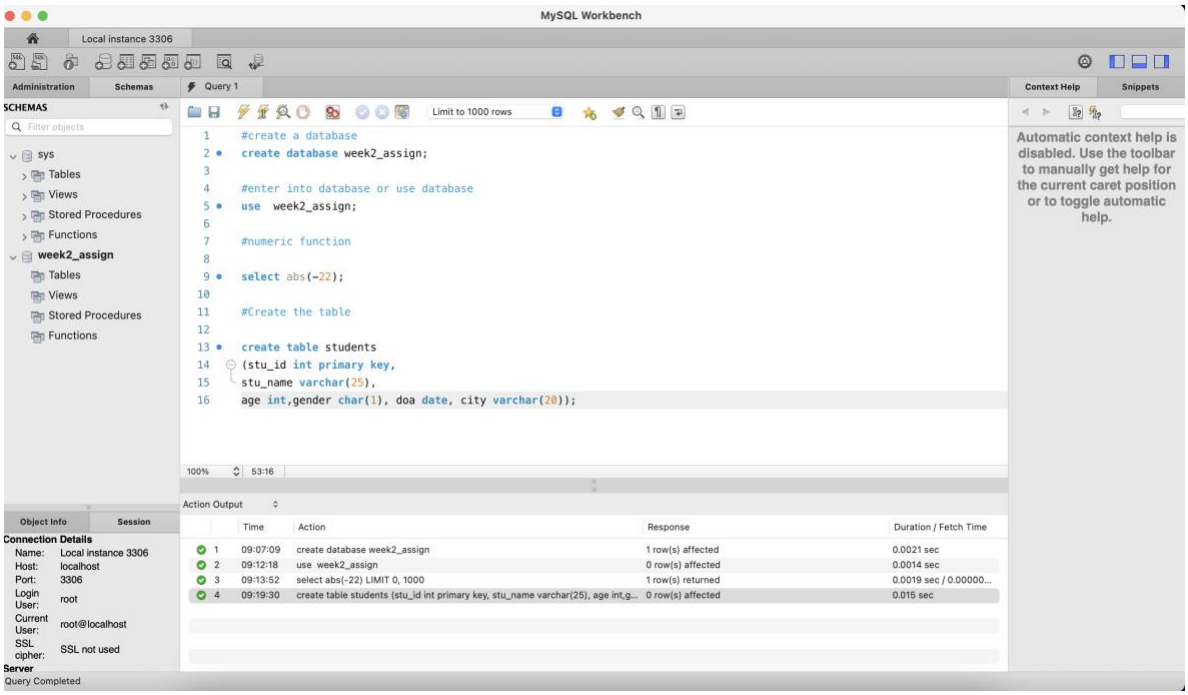
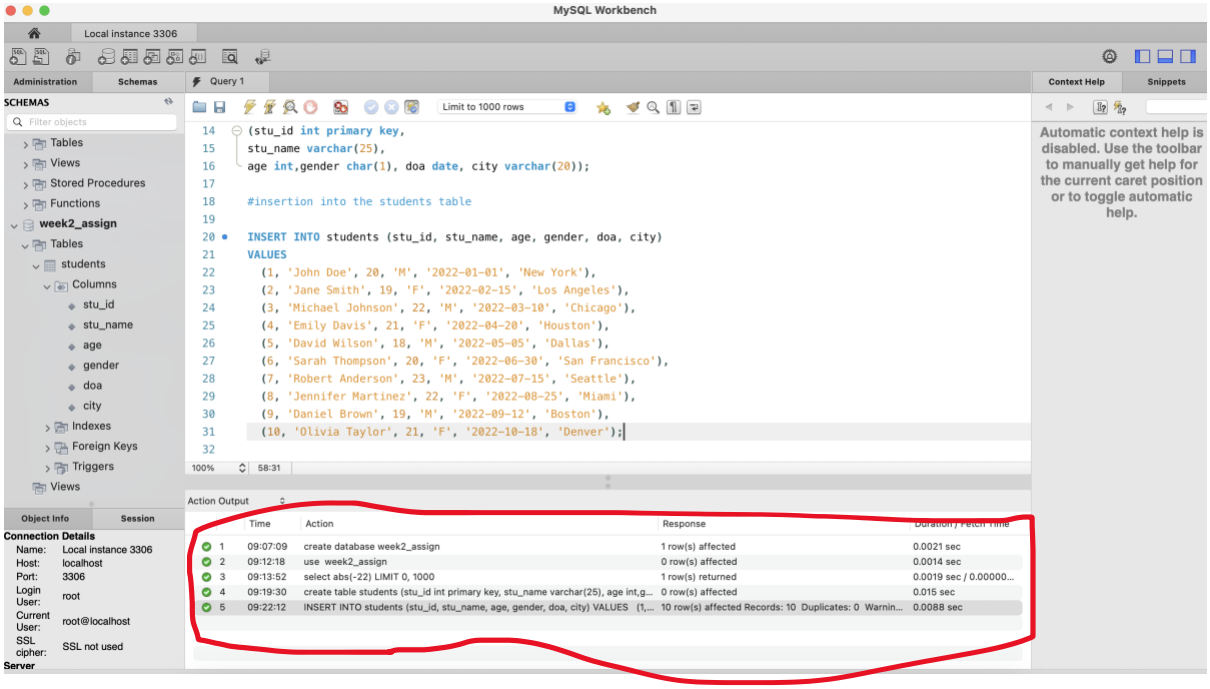
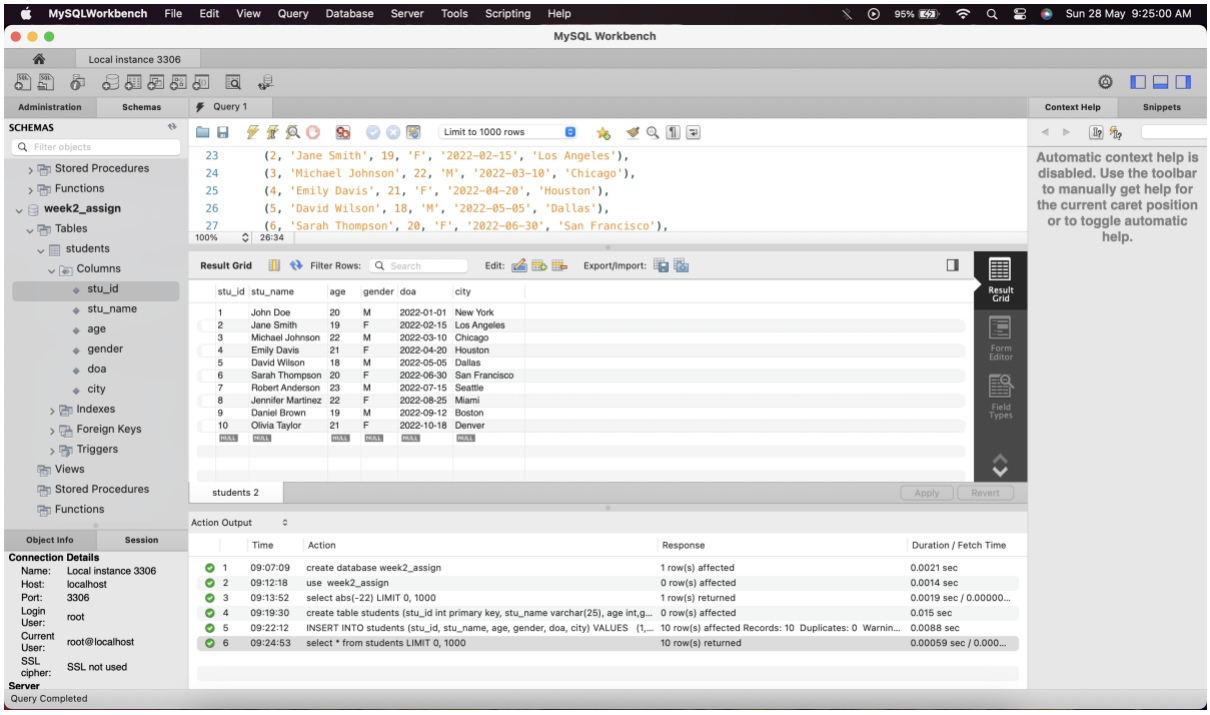


Table creation:

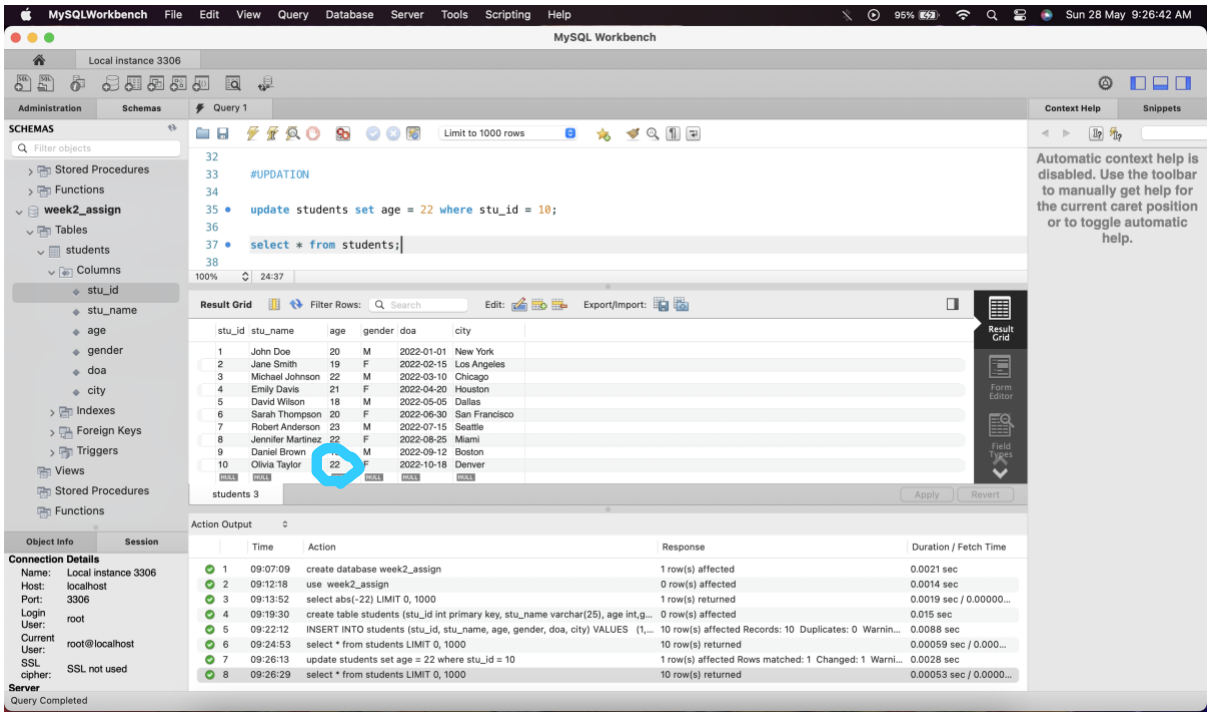


Insert Into student's table

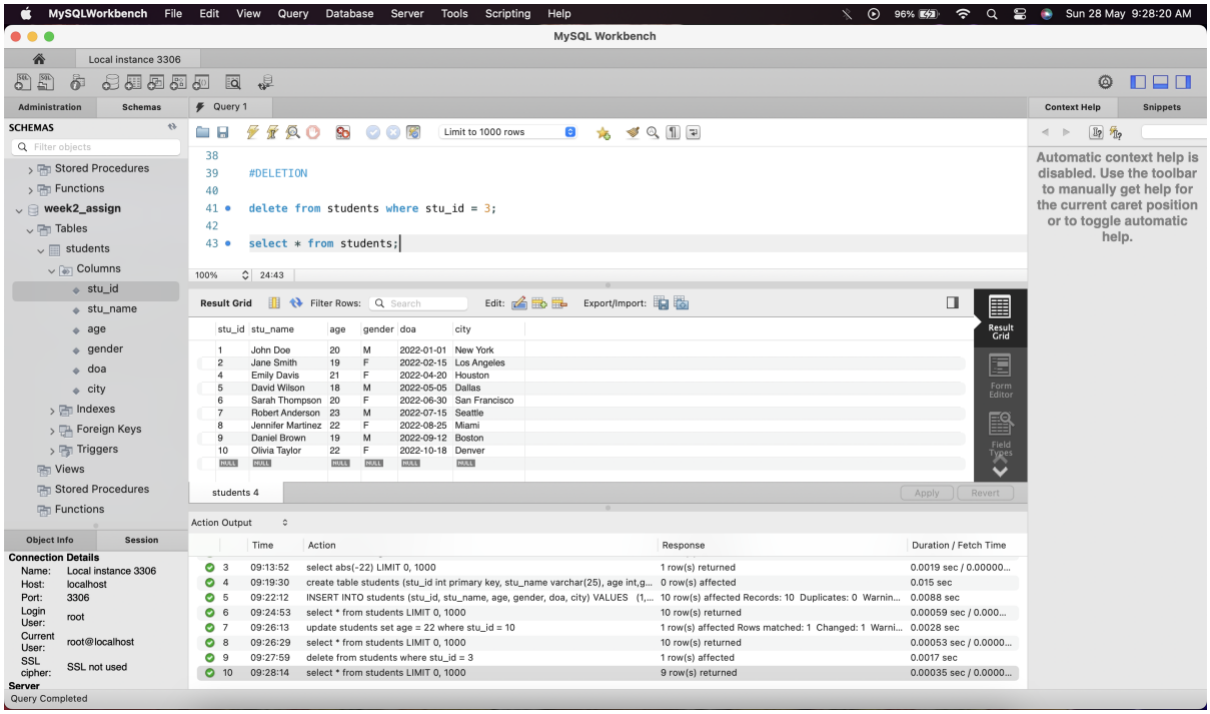




UPDATION



DELETION – Deleted the stu_id 3 records success



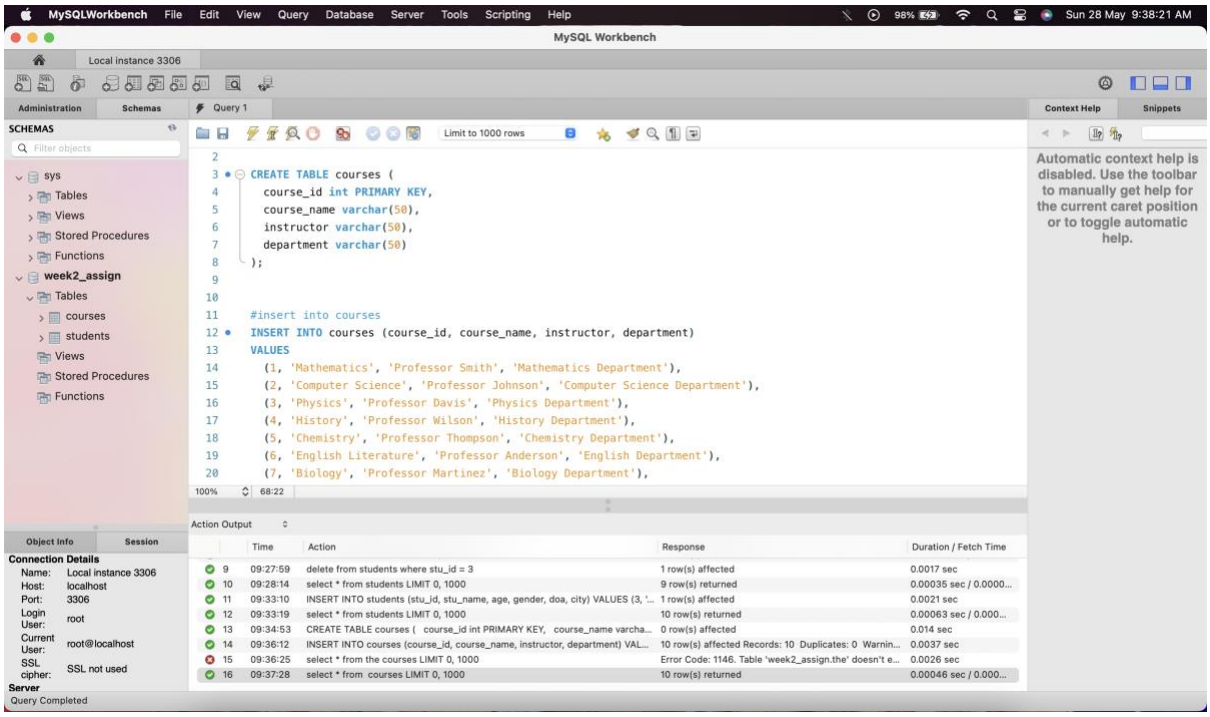
PERFORMED QUERIES:

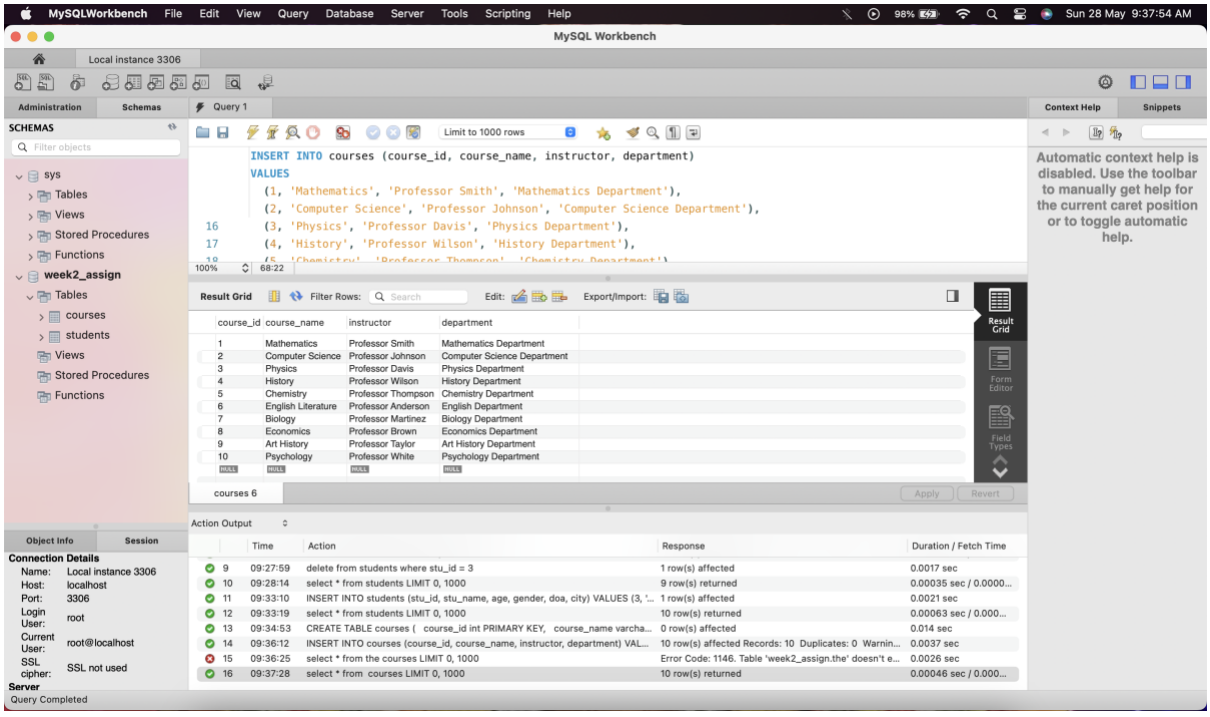
```
#create a database
create database week2_assign;

#enter into database or use database
use  week2_assign;

#numeric function

select abs(-22);

#Create the table

create table students
(stu_id int primary key,
stu_name varchar(25),
age int,gender char(1), doa date, city varchar(20));

#insertion into the students table

INSERT INTO students (stu_id, stu_name, age, gender, doa, city)
VALUES
  (1, 'John Doe', 20, 'M', '2022-01-01', 'New York'),
  (2, 'Jane Smith', 19, 'F', '2022-02-15', 'Los Angeles'),
  (3, 'Michael Johnson', 22, 'M', '2022-03-10', 'Chicago'),
  (4, 'Emily Davis', 21, 'F', '2022-04-20', 'Houston'),
  (5, 'David Wilson', 18, 'M', '2022-05-05', 'Dallas'),
  (6, 'Sarah Thompson', 20, 'F', '2022-06-30', 'San Francisco'),
```

```
  (7, 'Robert Anderson', 23, 'M', '2022-07-15', 'Seattle'),
  (8, 'Jennifer Martinez', 22, 'F', '2022-08-25', 'Miami'),
  (9, 'Daniel Brown', 19, 'M', '2022-09-12', 'Boston'),
  (10, 'Olivia Taylor', 21, 'F', '2022-10-18', 'Denver');

#UPDATION

update students set age = 22 where stu_id = 10;

select * from students;

#DELETION

delete from students where stu_id = 3;

select * from students;
```

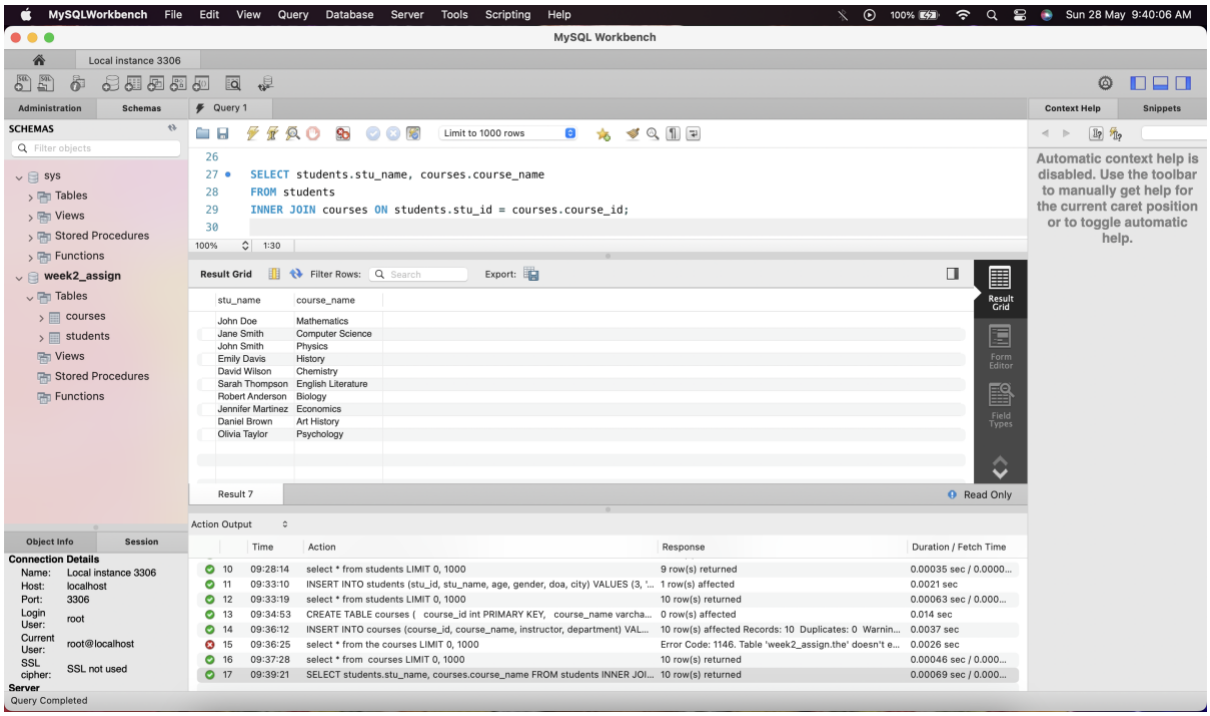
CREATE TABLES AND PERFORM JOINS

Creation and insertion of table and values

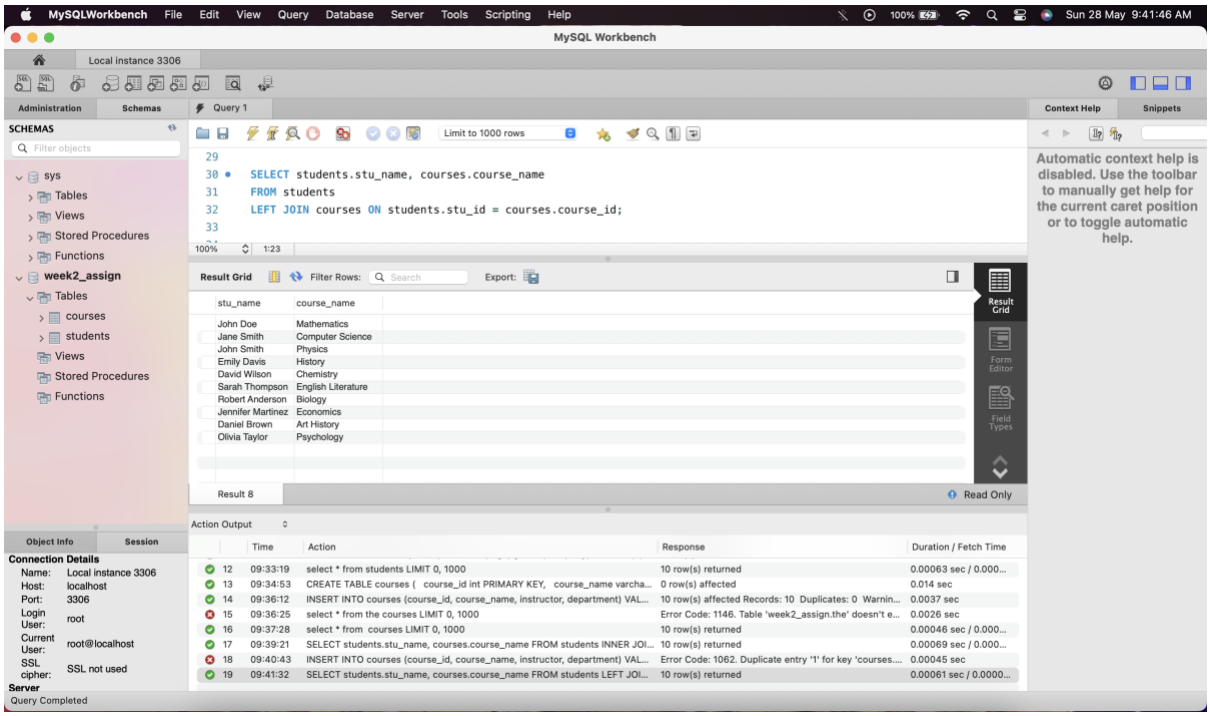




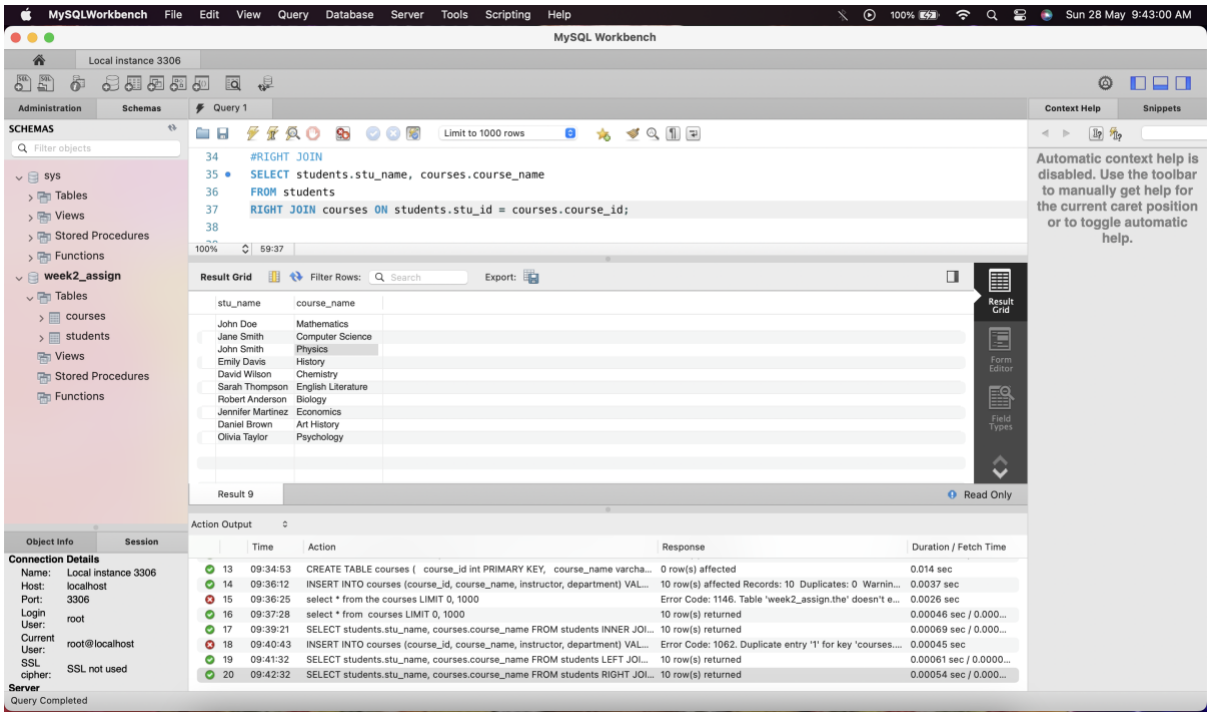
INNER JOIN



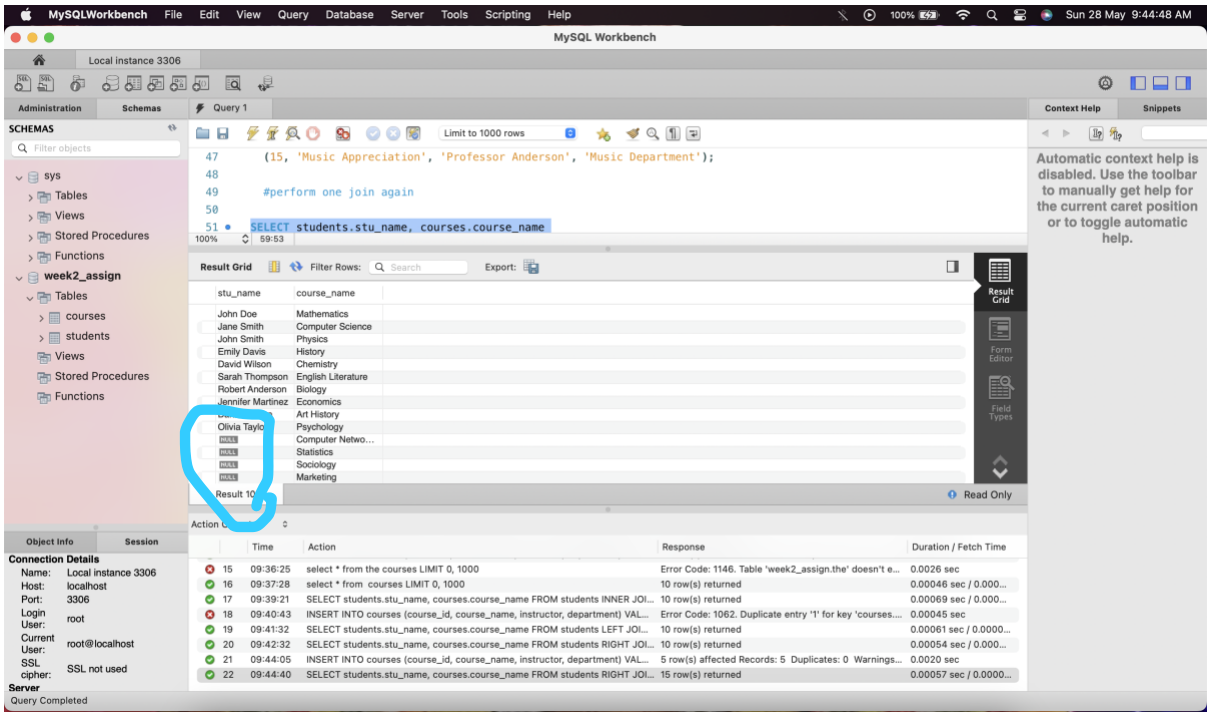
LEFT JOIN



RIGHT JOIN



There are 5 records that doesn’t match id so the value returned is null in student id.



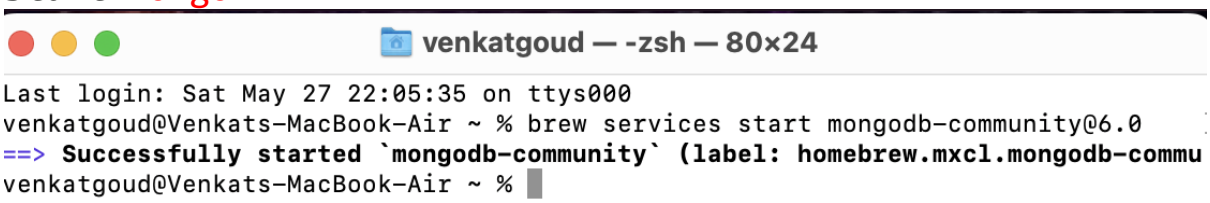
PERFORMED QUERIES:

```
#create another table

CREATE TABLE courses (
  course_id int PRIMARY KEY,
  course_name varchar(50),
  instructor varchar(50),
  department varchar(50)
);


#insert into courses
INSERT INTO courses (course_id, course_name, instructor,
department)
VALUES
  (1, 'Mathematics', 'Professor Smith', 'Mathematics
Department'),
  (2, 'Computer Science', 'Professor Johnson', 'Computer
Science Department'),
  (3, 'Physics', 'Professor Davis', 'Physics Department'),
  (4, 'History', 'Professor Wilson', 'History
Department'),
  (5, 'Chemistry', 'Professor Thompson', 'Chemistry
Department');



#INNER JOIN

SELECT students.stu_name, courses.course_name
FROM students
INNER JOIN courses ON students.stu_id = courses.course_id;

#LEFT JOIN

SELECT students.stu_name, courses.course_name
FROM students
LEFT JOIN courses ON students.stu_id = courses.course_id;

#RIGHT JOIN
```

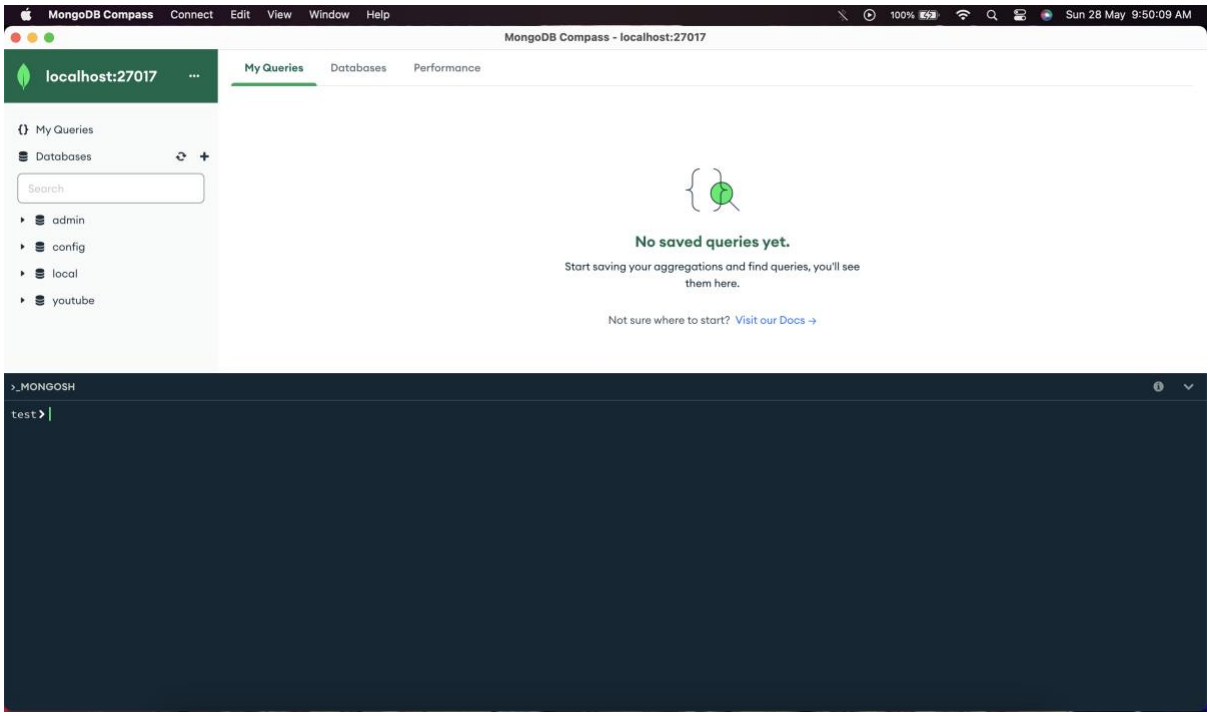
```
SELECT students.stu_name, courses.course_name
FROM students
RIGHT JOIN courses ON students.stu_id = courses.course_id;


#inserted more records
INSERT INTO courses (course_id, course_name, instructor,
department)
VALUES
  (11, 'Computer Networks', 'Professor Thompson',
'Computer Science Department'),
  (12, 'Statistics', 'Professor Wilson', 'Mathematics
Department'),
  (13, 'Sociology', 'Professor Davis', 'Social Sciences
Department'),
  (14, 'Marketing', 'Professor Johnson', 'Business
Department'),
  (15, 'Music Appreciation', 'Professor Anderson', 'Music
Department');

  #perform one join again

SELECT students.stu_name, courses.course_name
FROM students
RIGHT JOIN courses ON students.stu_id = courses.course_id;
```

CREATE UPDATE DELETE COMMANDS IN MONGODB

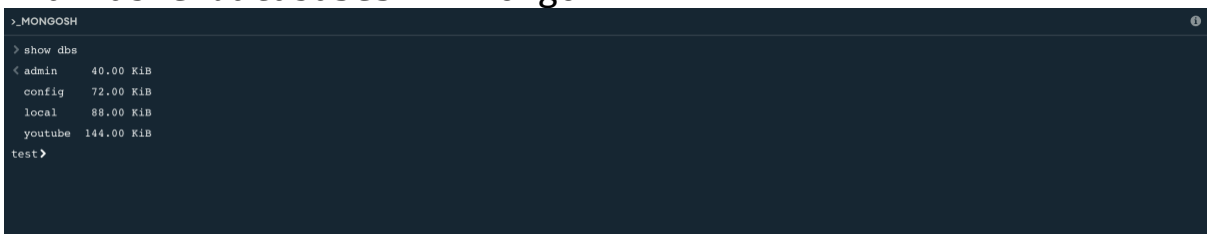
Start mongoDB



MongoDB compass



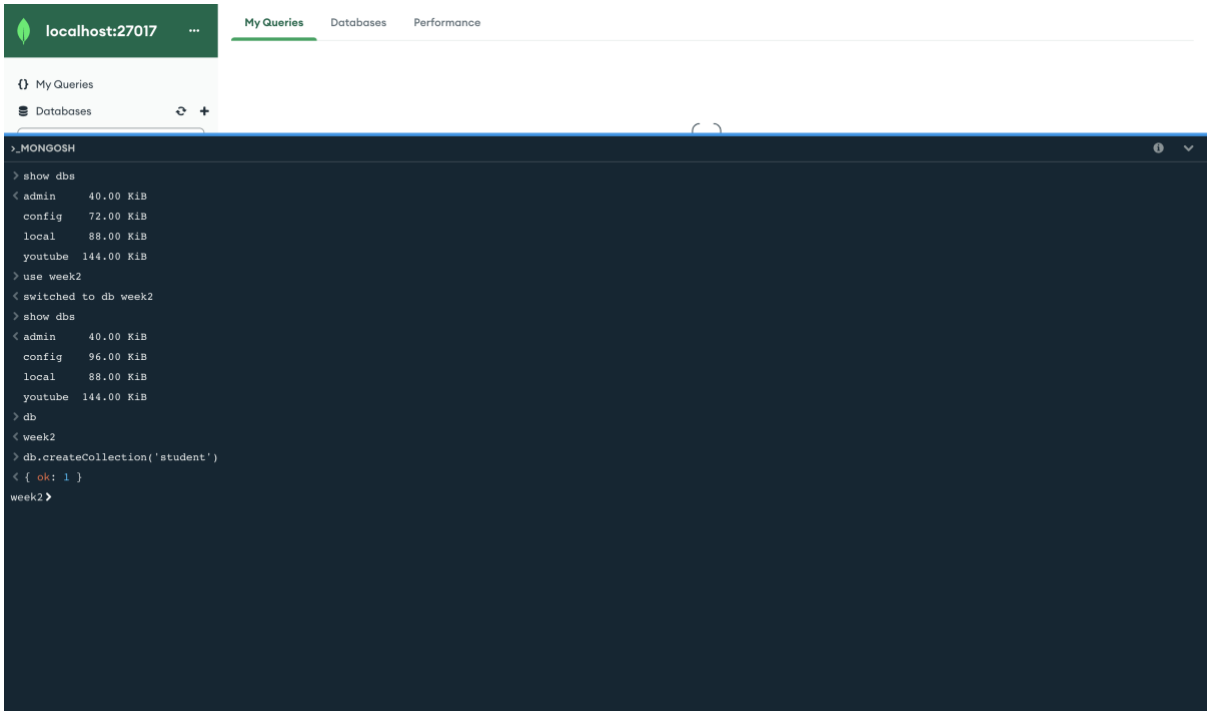
Available databases in mongoDB



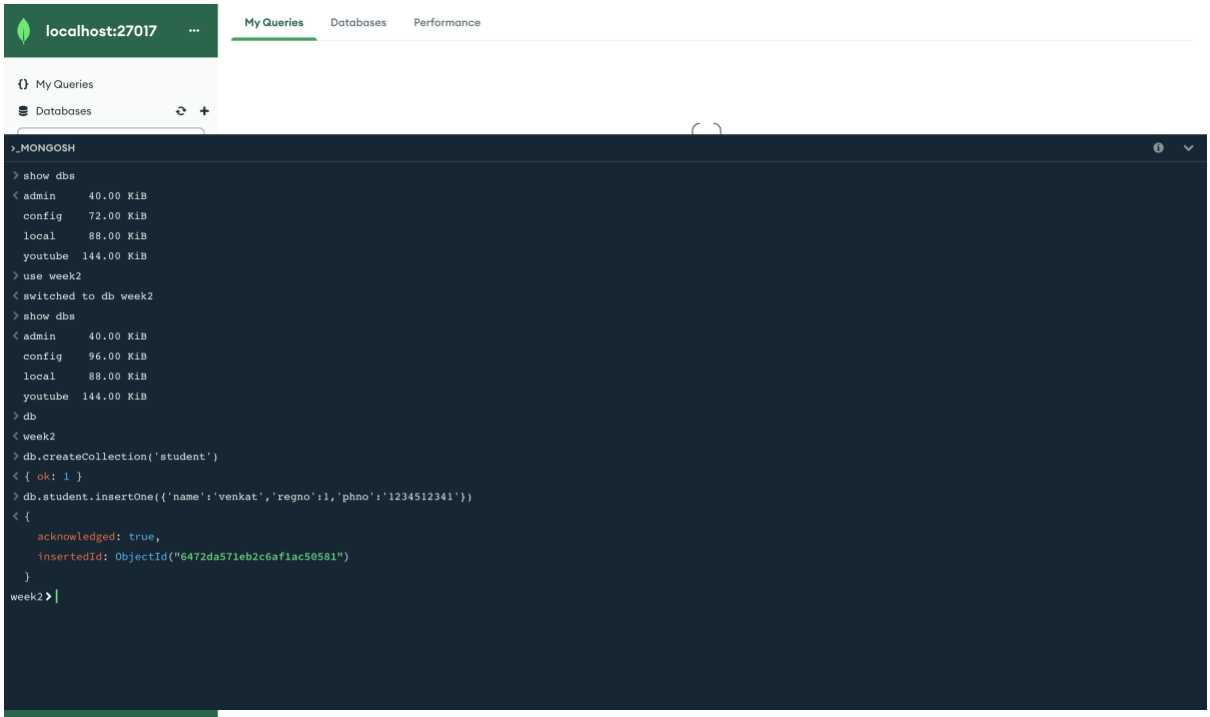
Create a new database week2

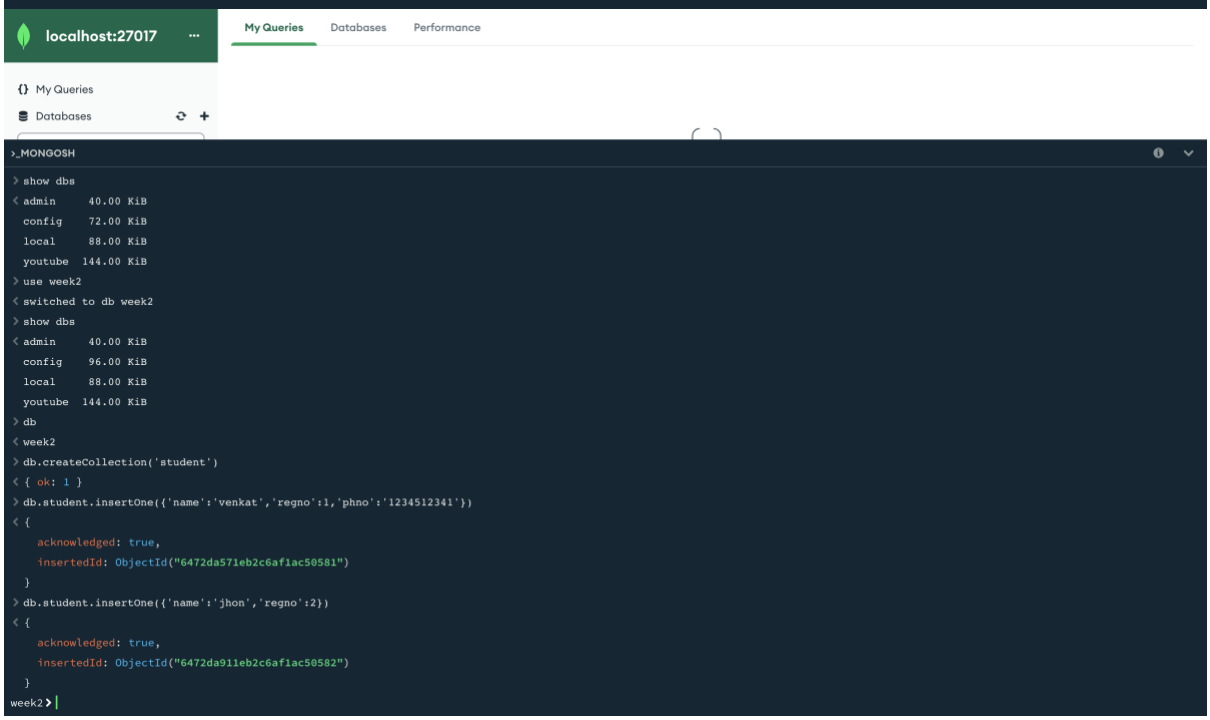
```
> show dbs
< admin     40.00 KiB
  config    72.00 KiB
  local     88.00 KiB
  youtube  144.00 KiB
> use week2
< switched to db week2
> show dbs
< admin     40.00 KiB
  config    96.00 KiB
  local     88.00 KiB
  youtube  144.00 KiB
> db
< week2
week2 >
```

Create a collection student



INSERTION

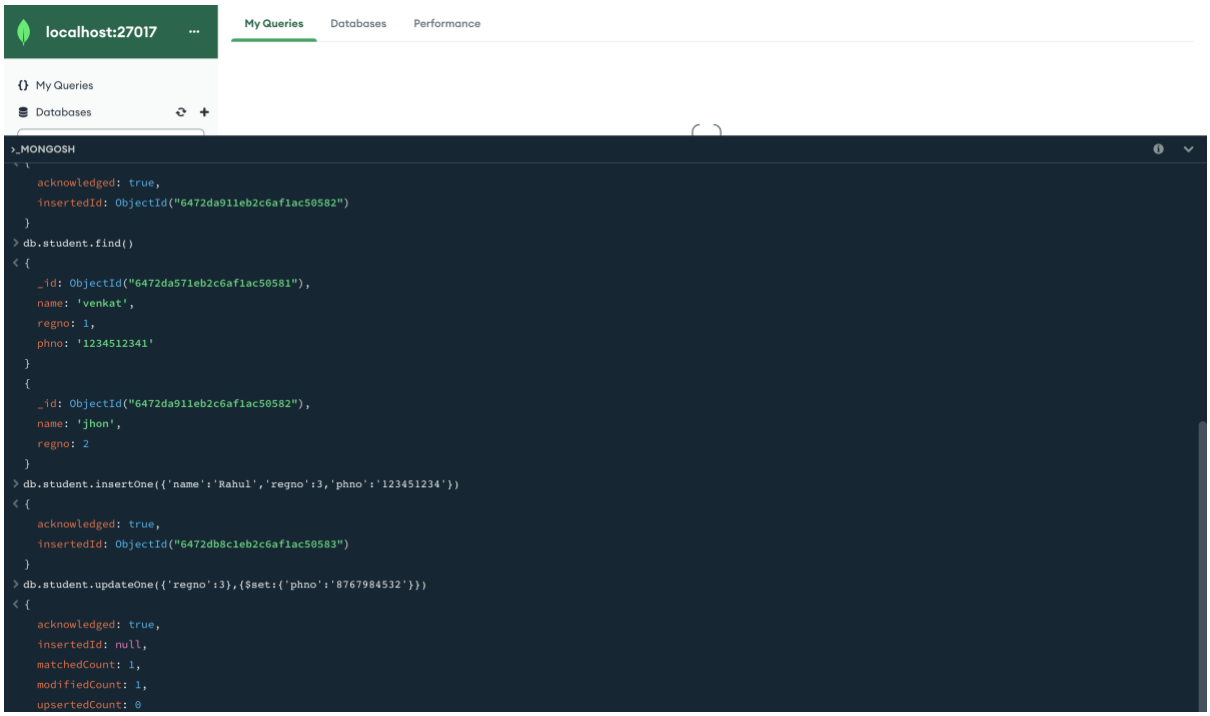




Find the inserted records

UPDATION

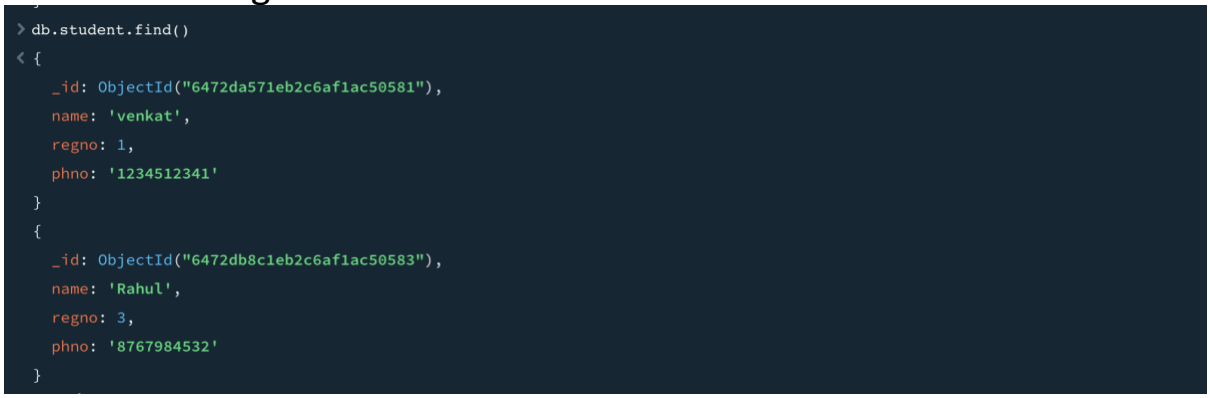
Updating the phone number of regno 3



Result.

DELETION

John record got deleted



Refresh the compass databases on the left pane you can find the database and records