WEEK 2 ASSESSMENT

Modern Application Development (Java Spring Boot)

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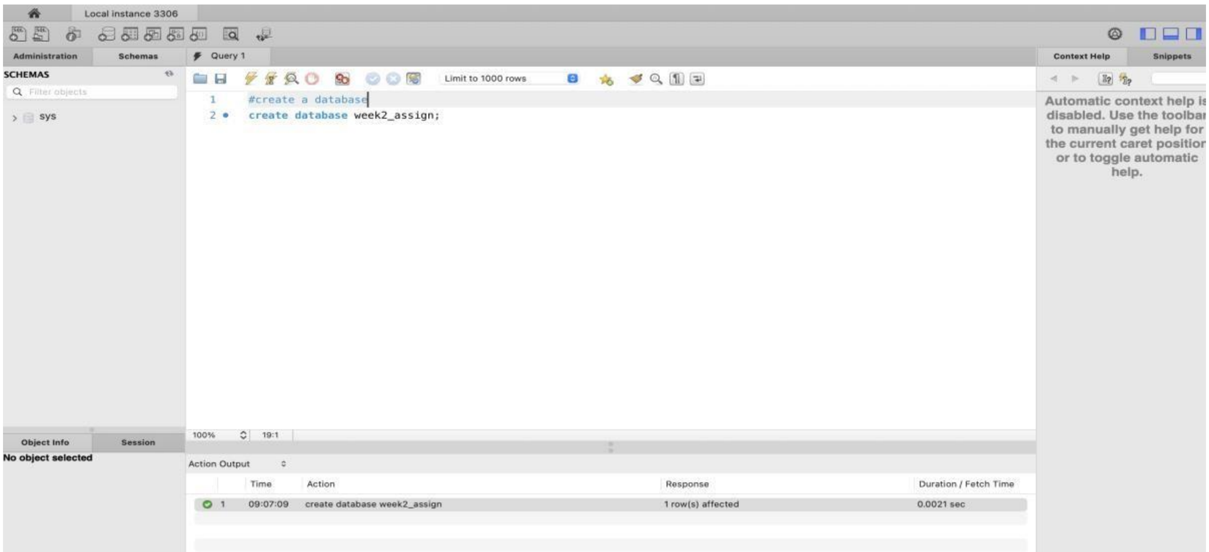
SQL:

Create Database;

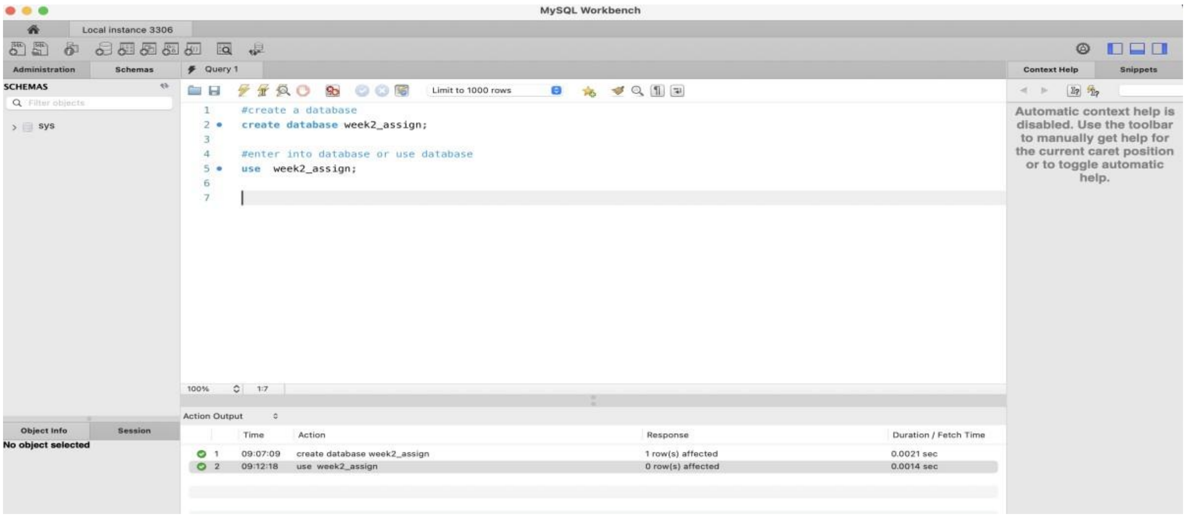


```
#create a database
create database week2_assign;
```

		Time	Action	Response	Duration / Fetch Time
✓	1	09:07:09	create database week2_assign	1 row(s) affected	0.0021 sec

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Use the database that is created

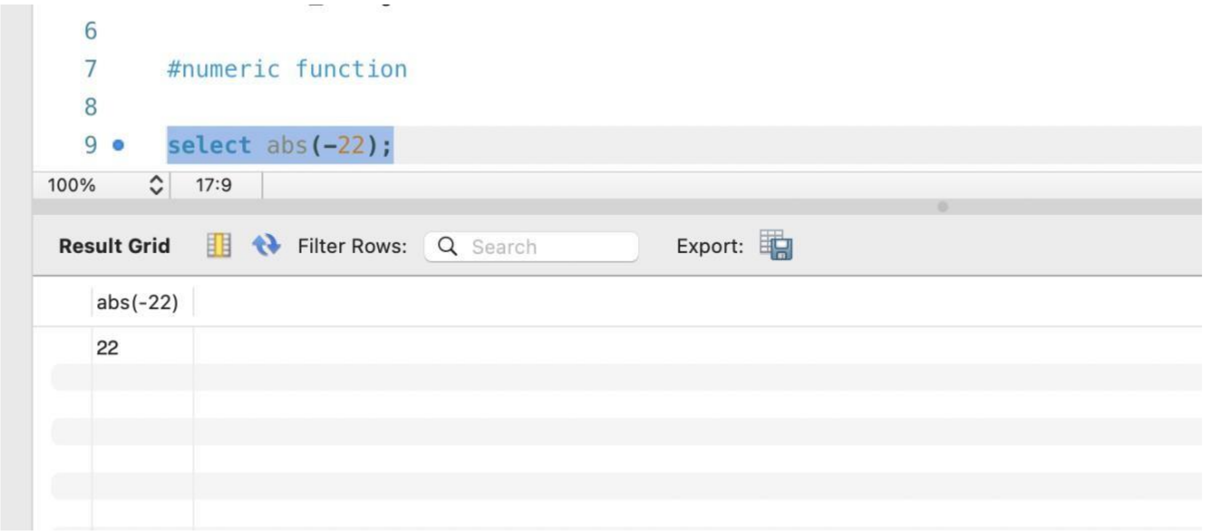


```
#create a database
create database week2_assign;

#enter into database or use database
use  week2_assign;


```

		Time	Action	Response	Duration / Fetch Time
✓	1	09:07:09	create database week2_assign	1 row(s) affected	0.0021 sec
✓	2	09:12:18	use week2_assign	0 row(s) affected	0.0014 sec

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

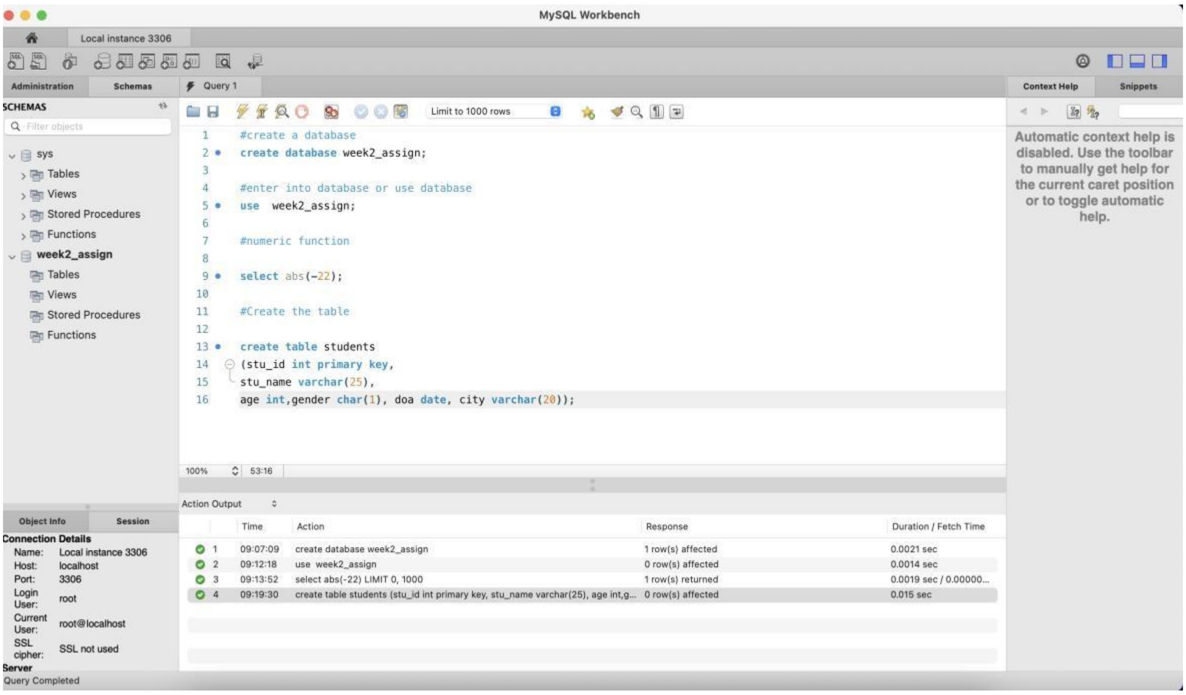
Example of numeric function



```
#numeric function

select abs(-22);
```

```
abs(-22)
22
```

Table creation:



```
#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));
```

Action Output

		Time	Action	Response	Duration / Fetch Time
✓	1	09:07:09	create database week2_assign	1 row(s) affected	0.0021 sec
✓	2	09:12:18	use week2_assign	0 row(s) affected	0.0014 sec
✓	3	09:13:52	select abs(-22) LIMIT 0, 1000	1 row(s) returned	0.0019 sec / 0.00000...
✓	4	09:19:30	create table students (stu_id int primary key, stu_name varchar(25), age int,g...	0 row(s) affected	0.015 sec

Connection Details

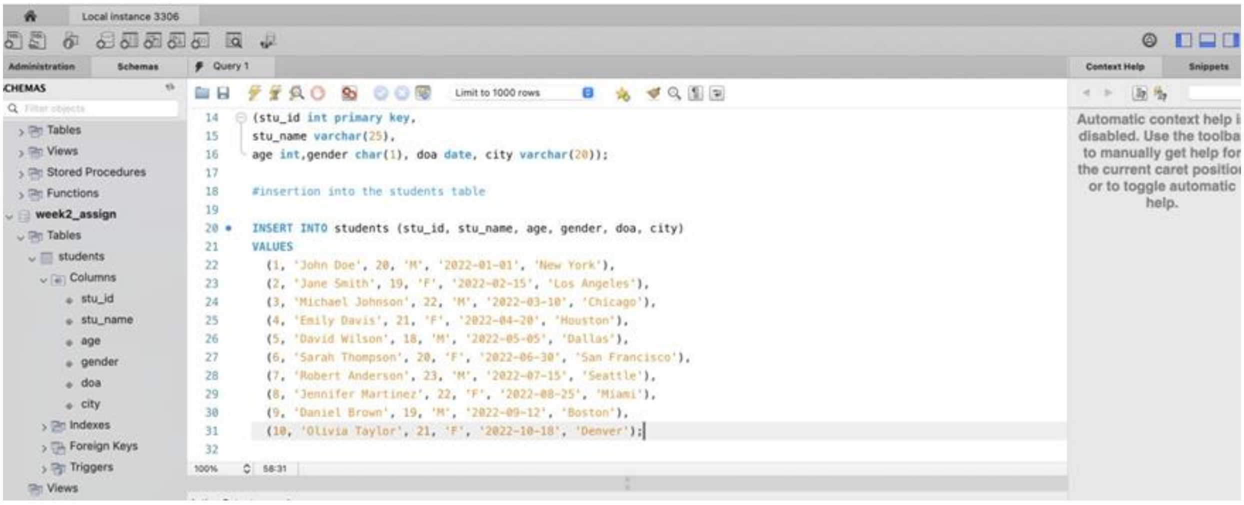
Name:	Local instance 3306
Host:	localhost
Port:	3306
Login User:	root
Current User:	root@localhost
SSL cipher:	SSL not used

Server

Query Completed

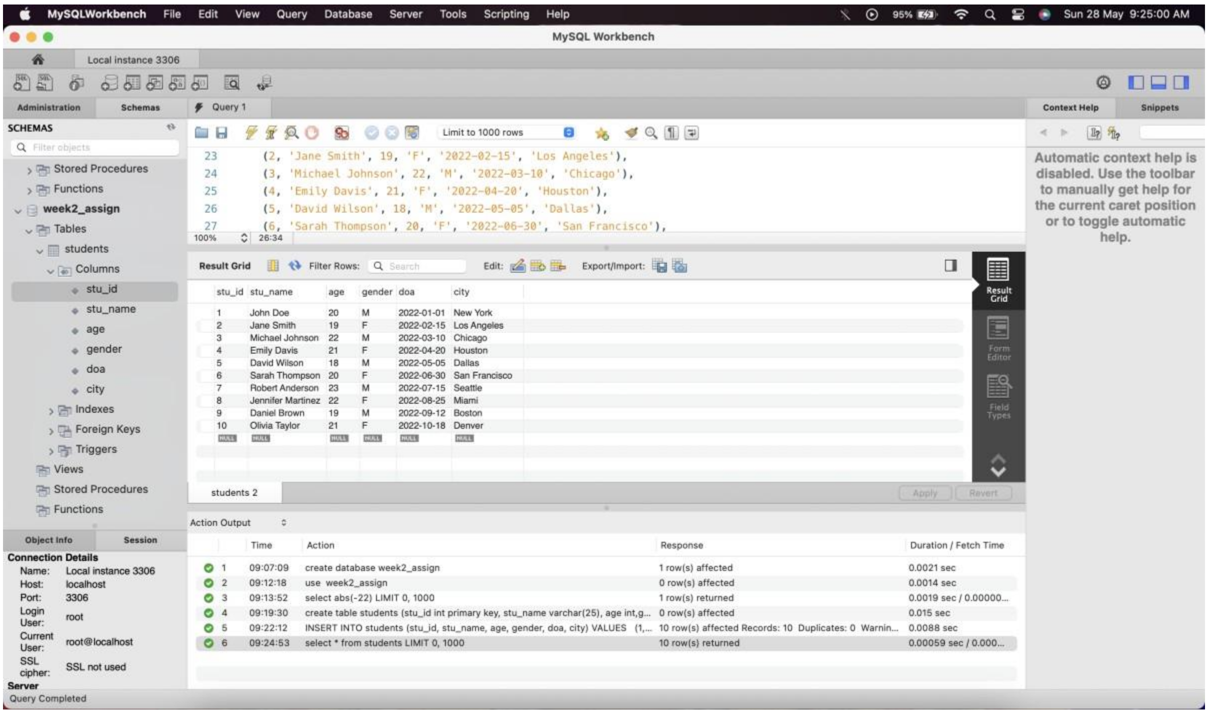
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Insert Into student's table



```
(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');
```

Automatic context help i disabled. Use the toolba to manually get help for the current caret positio or to toggle automatic help.

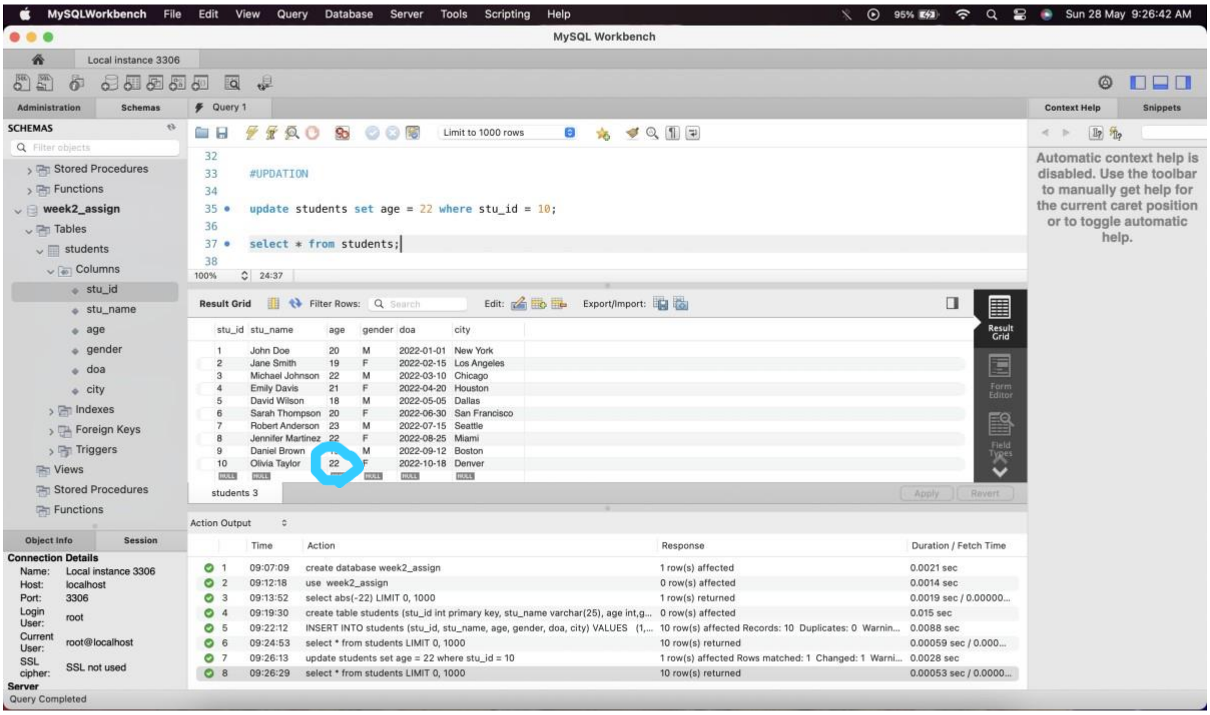


```
        (2, 'Jane Smith', 19, 'F', '2022-02-15', 'Los Angeles'),
        (3, 'Michael Johnson', 22, 'M', '2022-03-10', 'Chicago'),
        (4, 'Emily Davis', 21, 'F', '2022-04-20', 'Houston'),
        (5, 'David Wilson', 18, 'M', '2022-05-05', 'Dallas'),
        (6, 'Sarah Thompson', 20, 'F', '2022-06-30', 'San Francisco'),
```

stu_id	stu_name	age	gender	doa	city
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
NULL	NULL	NULL	NULL	NULL	NULL

```
    Time      Action                                                                       Response                                                   Duration / Fetch Time
1   09:07:09  create database week2_assign                                                 1 row(s) affected                                          0.0021 sec
2   09:12:18  use  week2_assign                                                            0 row(s) affected                                          0.0014 sec
3   09:13:52  select abs(-22) LIMIT 0, 1000                                                1 row(s) returned                                          0.0019 sec / 0.00000...
4   09:19:30  create table students (stu_id int primary key, stu_name varchar(25), age int,g...  0 row(s) affected                                    0.015 sec
5   09:22:12  INSERT INTO students (stu_id, stu_name, age, gender, doa, city) VALUES  (1,...  10 row(s) affected Records: 10  Duplicates: 0  Warnin...  0.0088 sec
6   09:24:53  select * from students LIMIT 0, 1000                                         10 row(s) returned                                         0.00059 sec / 0.000...
```

UPDATION

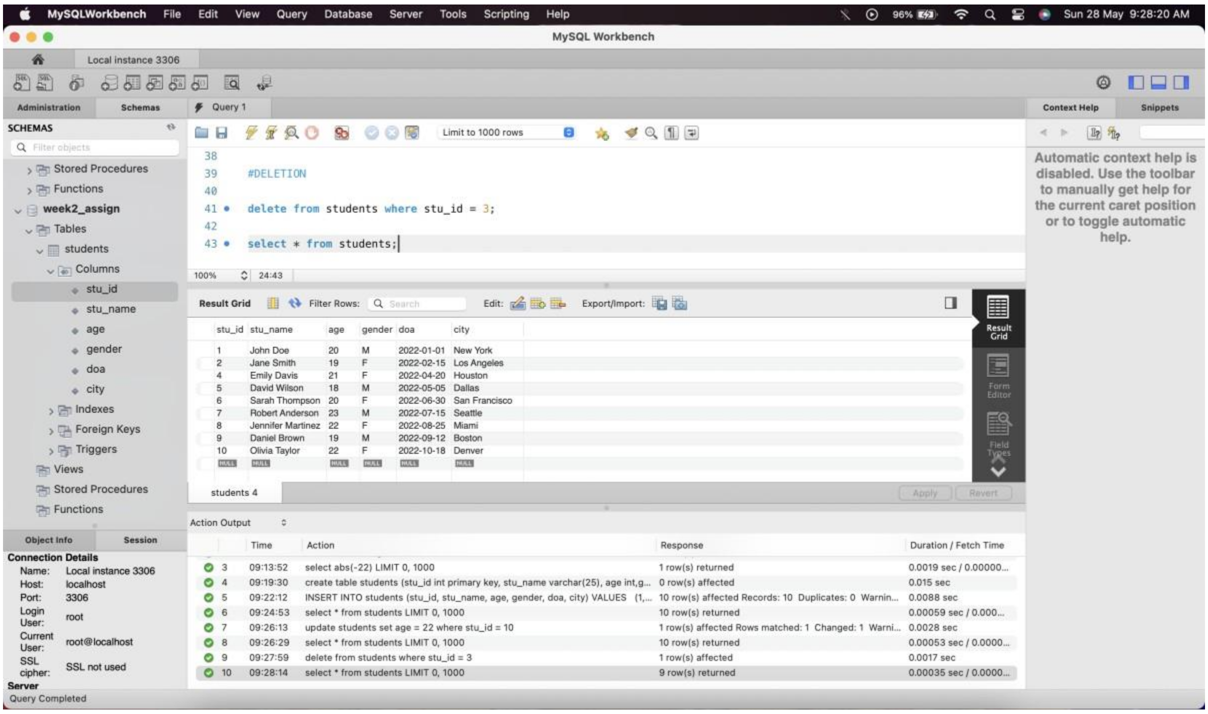


```
#UPDATION

update students set age = 22 where stu_id = 10;

select * from students;
```

stu_id	stu_name	age	gender	doa	city
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	22	F	2022-10-18	Denver
NULL	NULL	NULL	NULL	NULL	NULL

```
    Time      Action                                                                       Response                                                   Duration / Fetch Time
1   09:07:09  create database week2_assign                                                 1 row(s) affected                                          0.0021 sec
2   09:12:18  use  week2_assign                                                            0 row(s) affected                                          0.0014 sec
3   09:13:52  select abs(-22) LIMIT 0, 1000                                                1 row(s) returned                                          0.0019 sec / 0.00000...
4   09:19:30  create table students (stu_id int primary key, stu_name varchar(25), age int,g...  0 row(s) affected                                    0.015 sec
5   09:22:12  INSERT INTO students (stu_id, stu_name, age, gender, doa, city) VALUES  (1,...  10 row(s) affected Records: 10  Duplicates: 0  Warnin...  0.0088 sec
6   09:24:53  select * from students LIMIT 0, 1000                                         10 row(s) returned                                         0.00059 sec / 0.000...
7   09:26:13  update students set age = 22 where stu_id = 10                               1 row(s) affected Rows matched: 1  Changed: 1  Warni...    0.0028 sec
8   09:26:29  select * from students LIMIT 0, 1000                                         10 row(s) returned                                         0.00053 sec / 0.0000...
```

DELETION – Deleted the stu_id 3 records success



```
#DELETION

delete from students where stu_id = 3;

select * from students;
```

stu_id	stu_name	age	gender	doa	city
1	John Doe	20	M	2022-01-01	New York
2	Jane Smith	19	F	2022-02-15	Los Angeles
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	22	F	2022-10-18	Denver
NULL	NULL	NULL	NULL	NULL	NULL

	Time	Action	Response	Duration / Fetch Time
3	09:13:52	select abs(-22) LIMIT 0, 1000	1 row(s) returned	0.0019 sec / 0.00000...
4	09:19:30	create table students (stu_id int primary key, stu_name varchar(25), age int,g...	0 row(s) affected	0.015 sec
5	09:22:12	INSERT INTO students (stu_id, stu_name, age, gender, doa, city) VALUES (1,...	10 row(s) affected Records: 10 Duplicates: 0 Warnin...	0.0088 sec
6	09:24:53	select * from students LIMIT 0, 1000	10 row(s) returned	0.00059 sec / 0.000...
7	09:26:13	update students set age = 22 where stu_id = 10	1 row(s) affected Rows matched: 1 Changed: 1 Warni...	0.0028 sec
8	09:26:29	select * from students LIMIT 0, 1000	10 row(s) returned	0.00053 sec / 0.0000...
9	09:27:59	delete from students where stu_id = 3	1 row(s) affected	0.0017 sec
10	09:28:14	select * from students LIMIT 0, 1000	9 row(s) returned	0.00035 sec / 0.0000...

Connection Details
Name: Local instance 3306
Host: localhost
Port: 3306
Login User: root
Current User: root@localhost
SSL cipher: SSL not used
Server

PERFORMED QUERIES:

#create a database
create database week2_assign;

#enter into database or use databaseuse
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

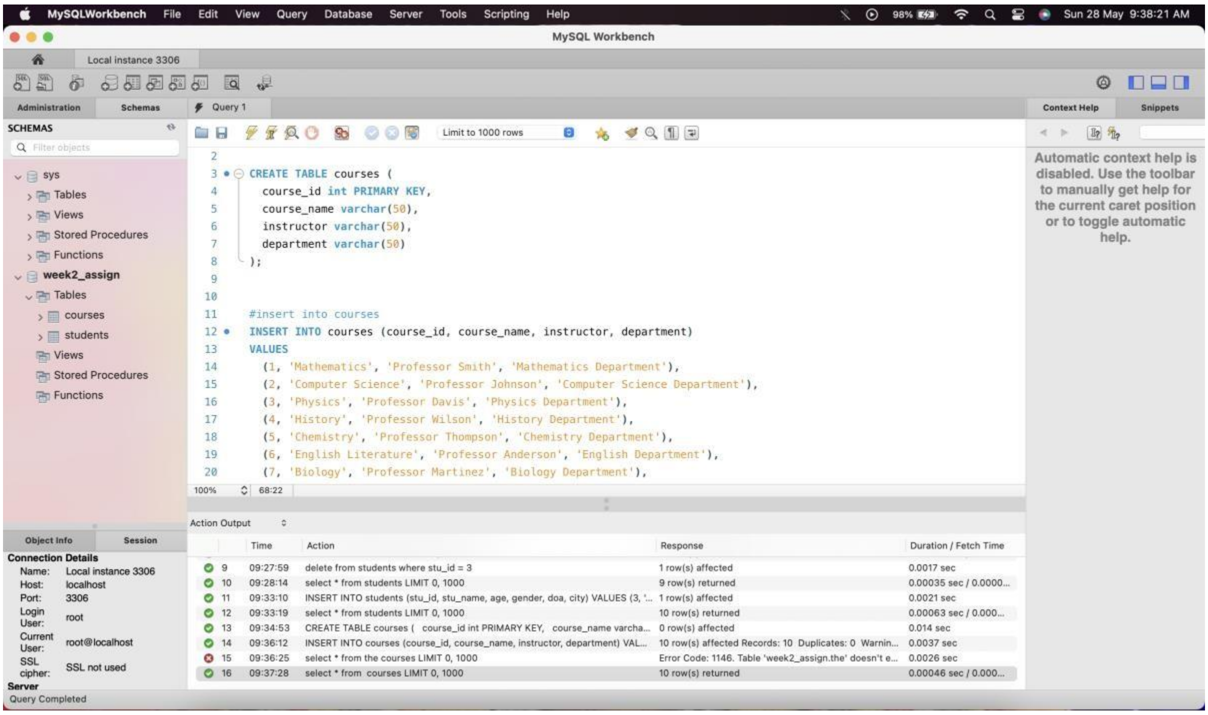
table

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

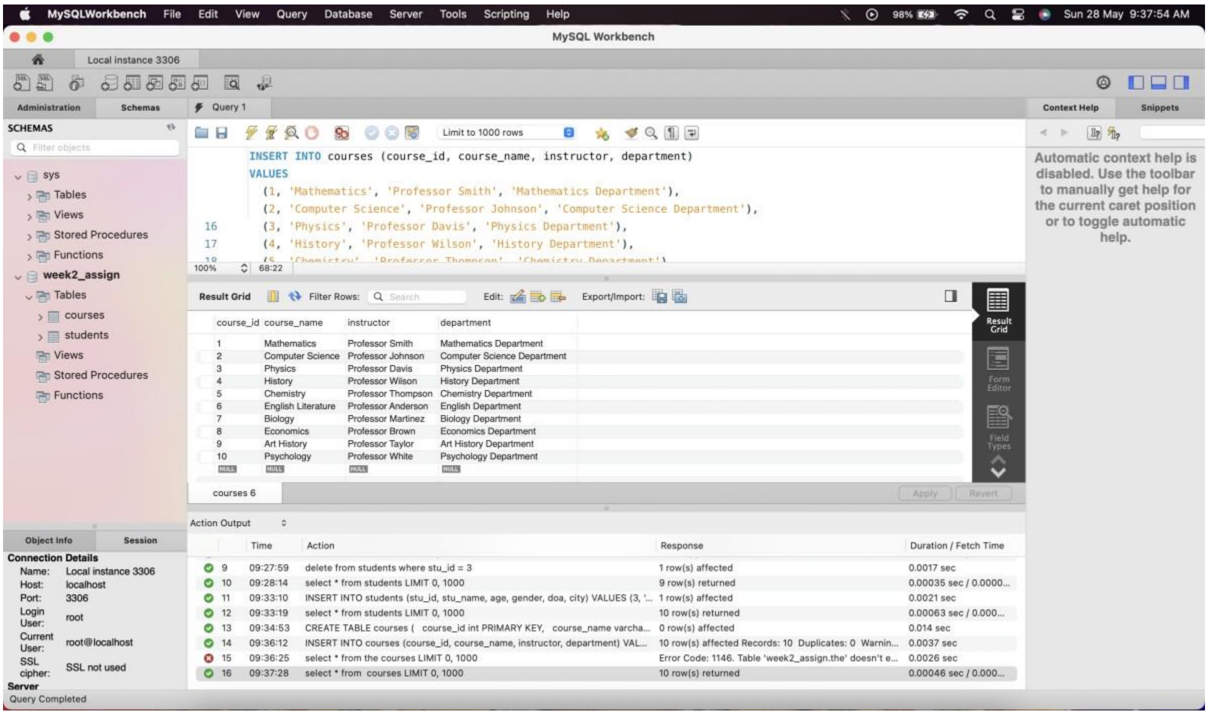


```
CREATE TABLE courses (
  course_id int PRIMARY KEY,
  course_name varchar(50),
  instructor varchar(50),
  department varchar(50)
);


#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'),
  (6, 'English Literature', 'Professor Anderson', 'English Department'),
  (7, 'Biology', 'Professor Martinez', 'Biology Department'),
```

```
    Time      Action                                                                   Response                                                      Duration / Fetch Time
✓ 9   09:27:59  delete from students where stu_id = 3                                    1 row(s) affected                                             0.0017 sec
✓ 10  09:28:14  select * from students LIMIT 0, 1000                                     9 row(s) returned                                             0.00035 sec / 0.0000...
✓ 11  09:33:10  INSERT INTO students (stu_id, stu_name, age, gender, doa, city) VALUES (3, '...  1 row(s) affected                                         0.0021 sec
✓ 12  09:33:19  select * from students LIMIT 0, 1000                                     10 row(s) returned                                            0.00063 sec / 0.000...
✓ 13  09:34:53  CREATE TABLE courses (   course_id int PRIMARY KEY,   course_name varcha...  0 row(s) affected                                         0.014 sec
✓ 14  09:36:12  INSERT INTO courses (course_id, course_name, instructor, department) VAL...  10 row(s) affected Records: 10  Duplicates: 0  Warnin...  0.0037 sec
✗ 15  09:36:25  select * from the courses LIMIT 0, 1000                                  Error Code: 1146. Table 'week2_assign.the' doesn't e...       0.0026 sec
✓ 16  09:37:28  select * from  courses LIMIT 0, 1000                                     10 row(s) returned                                            0.00046 sec / 0.000...
```

Connection Details
Name: Local instance 3306
Host: localhost
Port: 3306
Login User: root
Current User: root@localhost
SSL cipher: SSL not used

Query Completed



```
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'),
```

course_id	course_name	instructor	department
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
6	English Literature	Professor Anderson	English Department
7	Biology	Professor Martinez	Biology Department
8	Economics	Professor Brown	Economics Department
9	Art History	Professor Taylor	Art History Department
10	Psychology	Professor White	Psychology Department
NULL	NULL	NULL	NULL

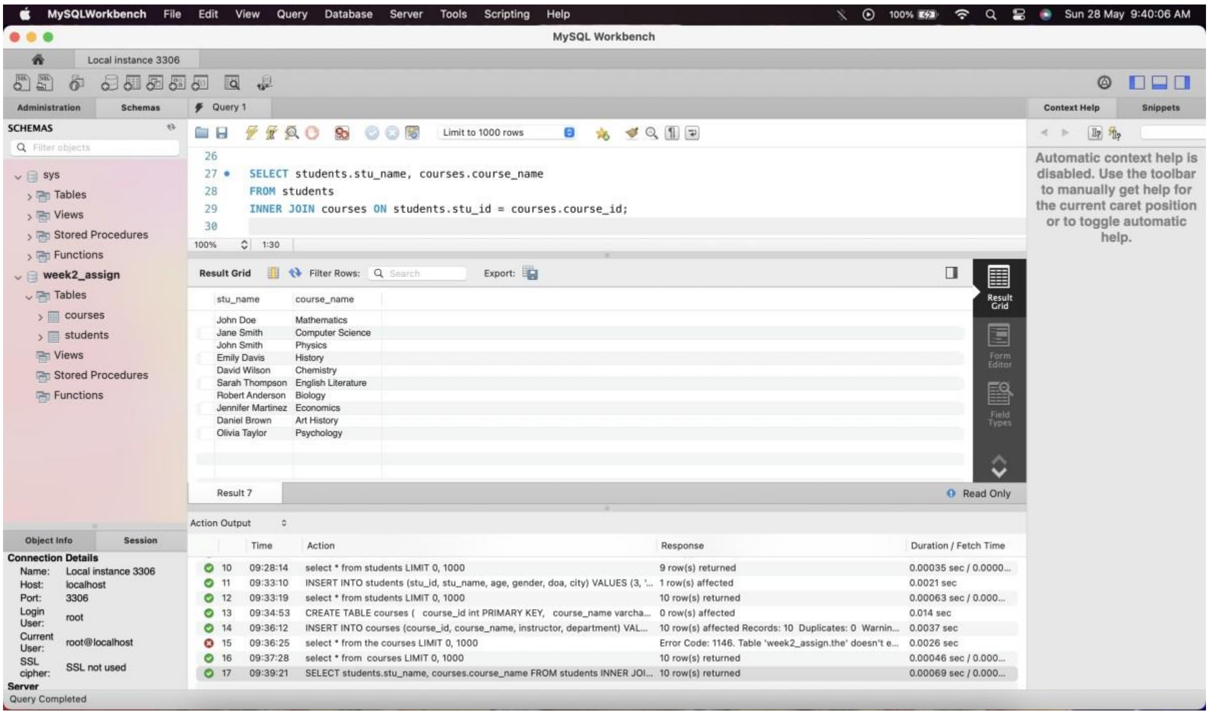
courses 6

```
    Time      Action                                                                   Response                                                      Duration / Fetch Time
✓ 9   09:27:59  delete from students where stu_id = 3                                    1 row(s) affected                                             0.0017 sec
✓ 10  09:28:14  select * from students LIMIT 0, 1000                                     9 row(s) returned                                             0.00035 sec / 0.0000...
✓ 11  09:33:10  INSERT INTO students (stu_id, stu_name, age, gender, doa, city) VALUES (3, '...  1 row(s) affected                                         0.0021 sec
✓ 12  09:33:19  select * from students LIMIT 0, 1000                                     10 row(s) returned                                            0.00063 sec / 0.000...
✓ 13  09:34:53  CREATE TABLE courses (   course_id int PRIMARY KEY,   course_name varcha...  0 row(s) affected                                         0.014 sec
✓ 14  09:36:12  INSERT INTO courses (course_id, course_name, instructor, department) VAL...  10 row(s) affected Records: 10  Duplicates: 0  Warnin...  0.0037 sec
✗ 15  09:36:25  select * from the courses LIMIT 0, 1000                                  Error Code: 1146. Table 'week2_assign.the' doesn't e...       0.0026 sec
✓ 16  09:37:28  select * from  courses LIMIT 0, 1000                                     10 row(s) returned                                            0.00046 sec / 0.000...
```

Connection Details
Name: Local instance 3306
Host: localhost
Port: 3306
Login User: root
Current User: root@localhost
SSL cipher: SSL not used

Query Completed

INNER JOIN



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

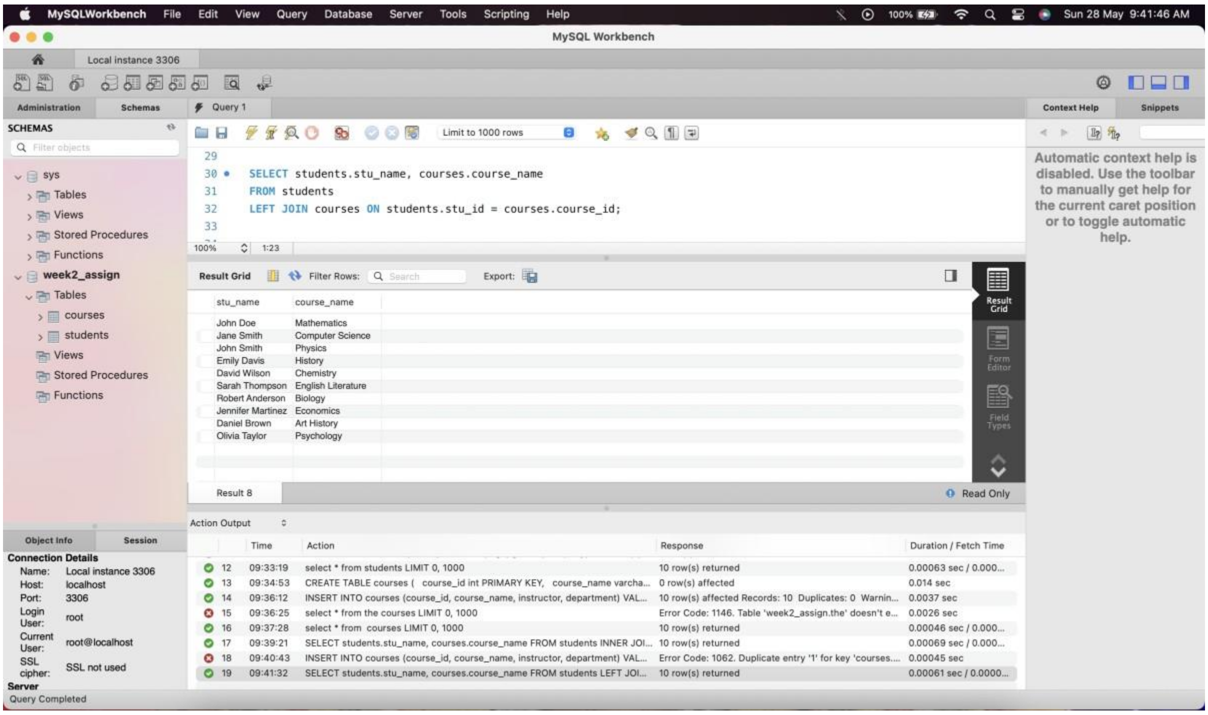
stu_name	course_name
John Doe	Mathematics
Jane Smith	Computer Science
John Smith	Physics
Emily Davis	History
David Wilson	Chemistry
Sarah Thompson	English Literature
Robert Anderson	Biology
Jennifer Martinez	Economics
Daniel Brown	Art History
Olivia Taylor	Psychology

Action Output

```
    Time      Action                                                                   Response                                                  Duration / Fetch Time
10  09:28:14  select * from students LIMIT 0, 1000                                     9 row(s) returned                                         0.00035 sec / 0.0000...
11  09:33:10  INSERT INTO students (stu_id, stu_name, age, gender, doa, city) VALUES (3, '...  1 row(s) affected                                  0.0021 sec
12  09:33:19  select * from students LIMIT 0, 1000                                     10 row(s) returned                                        0.00063 sec / 0.000...
13  09:34:53  CREATE TABLE courses (   course_id int PRIMARY KEY,   course_name varcha...  0 row(s) affected                                  0.014 sec
14  09:36:12  INSERT INTO courses (course_id, course_name, instructor, department) VAL...  10 row(s) affected Records: 10  Duplicates: 0  Warnin...  0.0037 sec
15  09:36:25  select * from the courses LIMIT 0, 1000                                  Error Code: 1146. Table 'week2_assign.the' doesn't e...   0.0026 sec
16  09:37:28  select * from  courses LIMIT 0, 1000                                     10 row(s) returned                                        0.00046 sec / 0.000...
17  09:39:21  SELECT students.stu_name, courses.course_name FROM students INNER JOI...  10 row(s) returned                                    0.00069 sec / 0.000...
```

Connection Details
Name: Local instance 3306
Host: localhost
Port: 3306
Login User: root
Current User: root@localhost
SSL cipher: SSL not used
Server

LEFT JOIN



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

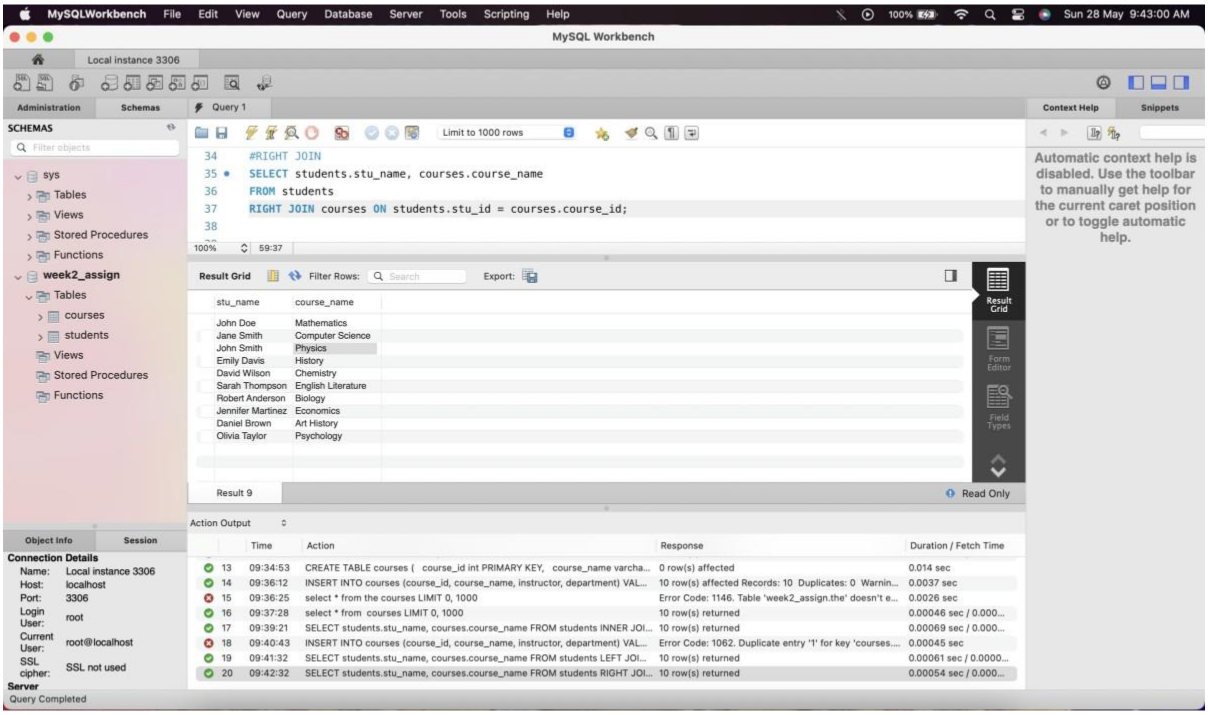
stu_name	course_name
John Doe	Mathematics
Jane Smith	Computer Science
John Smith	Physics
Emily Davis	History
David Wilson	Chemistry
Sarah Thompson	English Literature
Robert Anderson	Biology
Jennifer Martinez	Economics
Daniel Brown	Art History
Olivia Taylor	Psychology

Action Output

```
    Time      Action                                                                   Response                                                  Duration / Fetch Time
12  09:33:19  select * from students LIMIT 0, 1000                                     10 row(s) returned                                        0.00063 sec / 0.000...
13  09:34:53  CREATE TABLE courses (   course_id int PRIMARY KEY,   course_name varcha...  0 row(s) affected                                  0.014 sec
14  09:36:12  INSERT INTO courses (course_id, course_name, instructor, department) VAL...  10 row(s) affected Records: 10  Duplicates: 0  Warnin...  0.0037 sec
15  09:36:25  select * from the courses LIMIT 0, 1000                                  Error Code: 1146. Table 'week2_assign.the' doesn't e...   0.0026 sec
16  09:37:28  select * from  courses LIMIT 0, 1000                                     10 row(s) returned                                        0.00046 sec / 0.000...
17  09:39:21  SELECT students.stu_name, courses.course_name FROM students INNER JOI...  10 row(s) returned                                    0.00069 sec / 0.000...
18  09:40:43  INSERT INTO courses (course_id, course_name, instructor, department) VAL...  Error Code: 1062. Duplicate entry '1' for key 'courses....  0.00045 sec
19  09:41:32  SELECT students.stu_name, courses.course_name FROM students LEFT JOI...  10 row(s) returned                                     0.00061 sec / 0.0000...
```

Connection Details
Name: Local instance 3306
Host: localhost
Port: 3306
Login User: root
Current User: root@localhost
SSL cipher: SSL not used
Server

RIGHT JOIN



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

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

stu_name	course_name
John Doe	Mathematics
Jane Smith	Computer Science
John Smith	Physics
Emily Davis	History
David Wilson	Chemistry
Sarah Thompson	English Literature
Robert Anderson	Biology
Jennifer Martinez	Economics
Daniel Brown	Art History
Olivia Taylor	Psychology

		Time	Action	Response	Duration / Fetch Time
✓	13	09:34:53	CREATE TABLE courses (course_id int PRIMARY KEY, course_name varcha...	0 row(s) affected	0.014 sec
✓	14	09:36:12	INSERT INTO courses (course_id, course_name, instructor, department) VAL...	10 row(s) affected Records: 10 Duplicates: 0 Warnin...	0.0037 sec
✗	15	09:36:25	select * from the courses LIMIT 0, 1000	Error Code: 1146. Table 'week2_assign.the' doesn't e...	0.0026 sec
✓	16	09:37:28	select * from courses LIMIT 0, 1000	10 row(s) returned	0.00046 sec / 0.000...
✓	17	09:39:21	SELECT students.stu_name, courses.course_name FROM students INNER JOI...	10 row(s) returned	0.00069 sec / 0.000...
✗	18	09:40:43	INSERT INTO courses (course_id, course_name, instructor, department) VAL...	Error Code: 1062. Duplicate entry '1' for key 'courses....	0.00045 sec
✓	19	09:41:32	SELECT students.stu_name, courses.course_name FROM students LEFT JOI...	10 row(s) returned	0.00061 sec / 0.0000...
✓	20	09:42:32	SELECT students.stu_name, courses.course_name FROM students RIGHT JOI...	10 row(s) returned	0.00054 sec / 0.000...

Connection Details
Name: Local instance 3306
Host: localhost
Port: 3306
Login User: root
Current User: root@localhost
SSL cipher: SSL not used
Server

Query Completed

PERFORMED QUERIES:

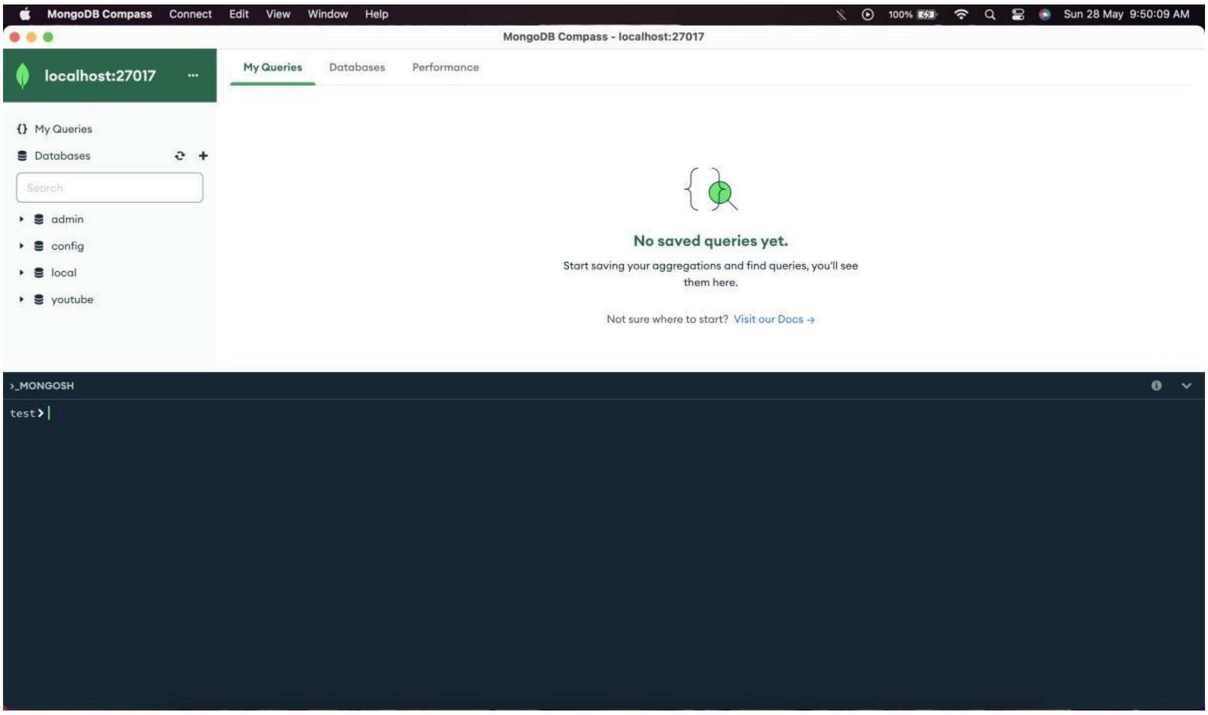
```
#create another table

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', 'MathematicsDepartment'),
    (2, 'Computer Science', 'Professor Johnson', 'ComputerScience Department'),
    (3, 'Physics', 'Professor Davis', 'Physics Department'),(4, 'History', 'Professor
    Wilson', 'History
Department'),
    (5, 'Chemistry', 'Professor Thompson', 'ChemistryDepartment');



#INNER JOIN

SELECT students.stu_name, courses.course_nameFROM
students
INNER JOIN courses ON students.stu_id = courses.course_id;#LEFT JOIN

SELECT students.stu_name, courses.course_nameFROM
students
LEFT JOIN courses ON students.stu_id = courses.course_id;#RIGHT JOIN
```

```
SELECT students.stu_name, courses.course_nameFROM
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', 'MathematicsDepartment'),
    (13, 'Sociology', 'Professor Davis', 'Social SciencesDepartment'),
    (14, 'Marketing', 'Professor Johnson', 'BusinessDepartment'),
    (15, 'Music Appreciation', 'Professor Anderson', 'MusicDepartment');

    #perform one join again

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

CREATE UPDATE DELETE COMMANDS IN MONGODB

Start mongoDB

MongoDB compass



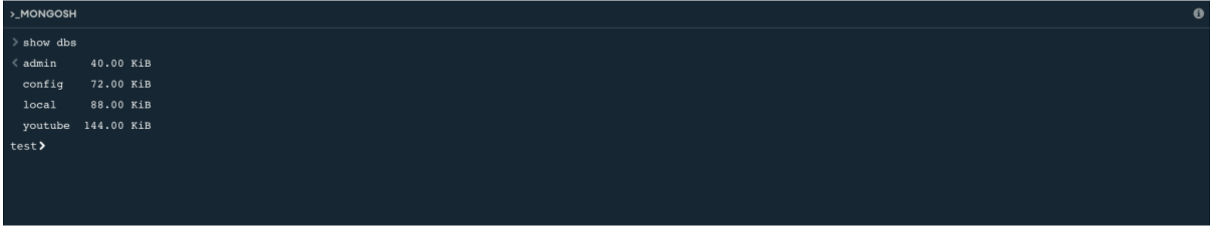
No saved queries yet.

Start saving your aggregations and find queries, you'll see them here.

Not sure where to start? Visit our Docs →

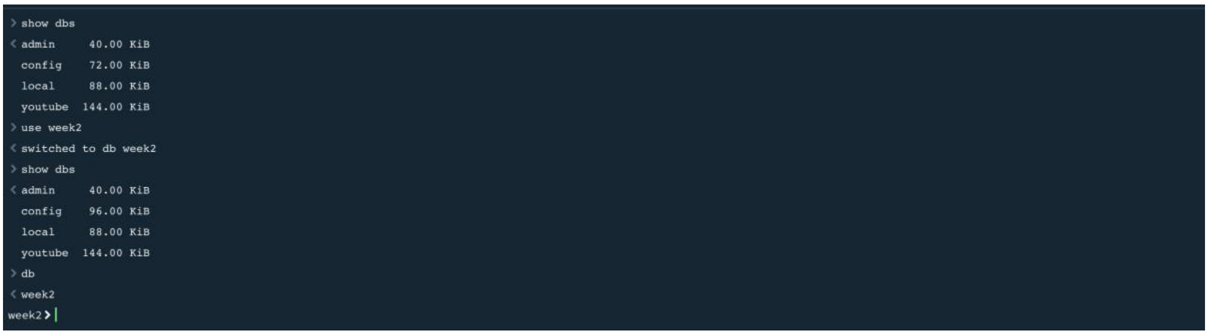
```
test>
```

Available databases in mongoDB



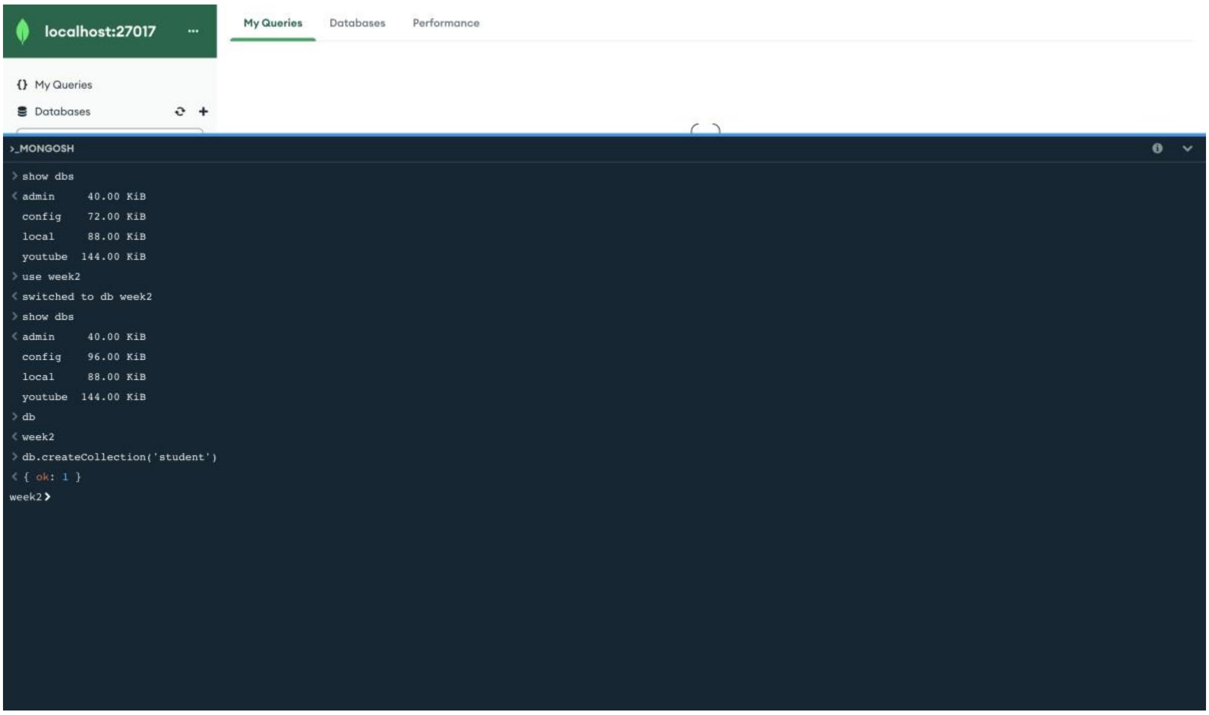
```
> show dbs
< admin     40.00 KiB
  config    72.00 KiB
  local     88.00 KiB
  youtube  144.00 KiB
test>
```

Create a new database week2



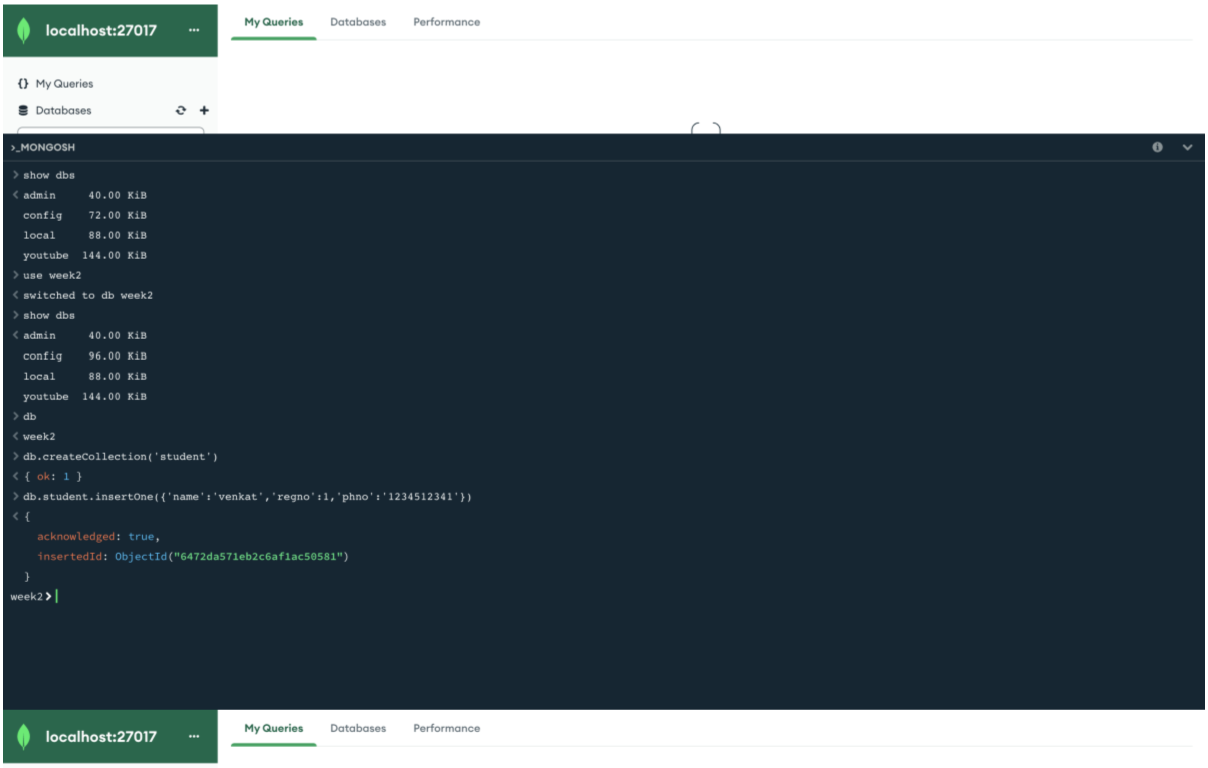
```
> show dbs
< admin     40.00 KiB
  config    72.00 KiB
  local     88.00 KiB
  youtube  144.00 KiB
> use week2
< switched to db week2
> show dbs
< admin     40.00 KiB
  config    96.00 KiB
  local     88.00 KiB
  youtube  144.00 KiB
> db
< week2
week2 >
```

Create a collection student

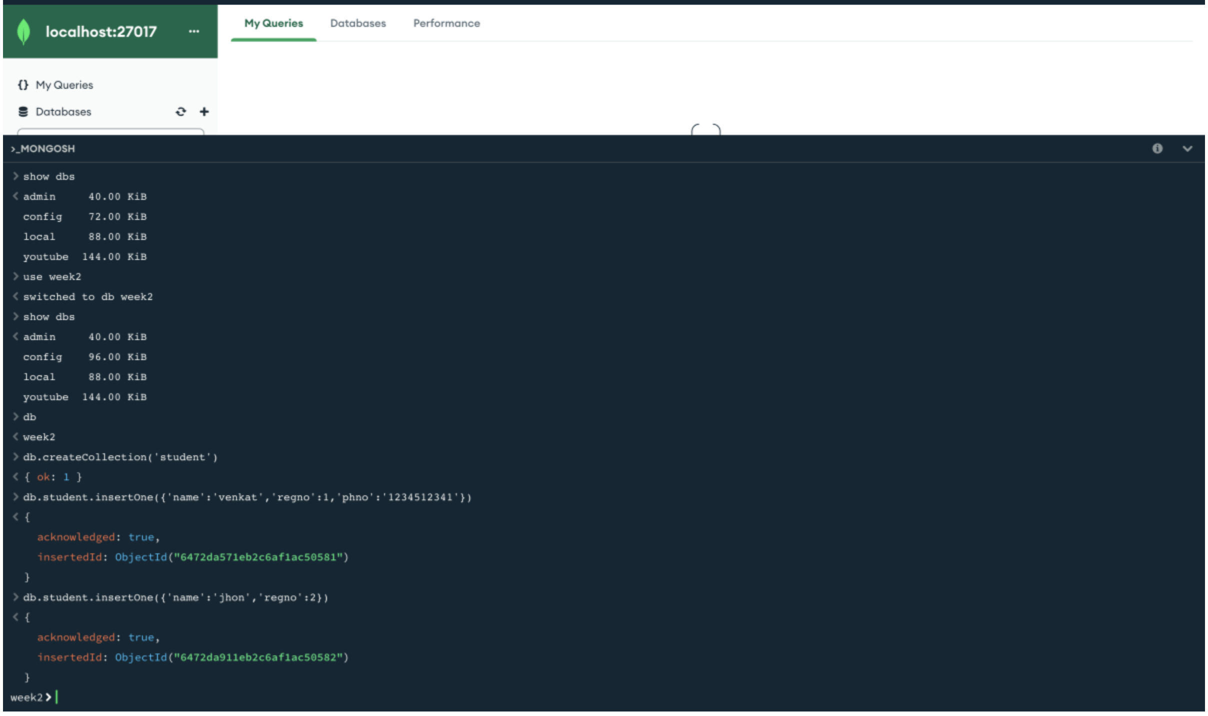


```
> show dbs
< admin     40.00 KiB
  config    72.00 KiB
  local     88.00 KiB
  youtube  144.00 KiB
> use week2
< switched to db week2
> show dbs
< admin     40.00 KiB
  config    96.00 KiB
  local     88.00 KiB
  youtube  144.00 KiB
> db
< week2
> db.createCollection('student')
< { ok: 1 }
week2 >
```

INSERTION

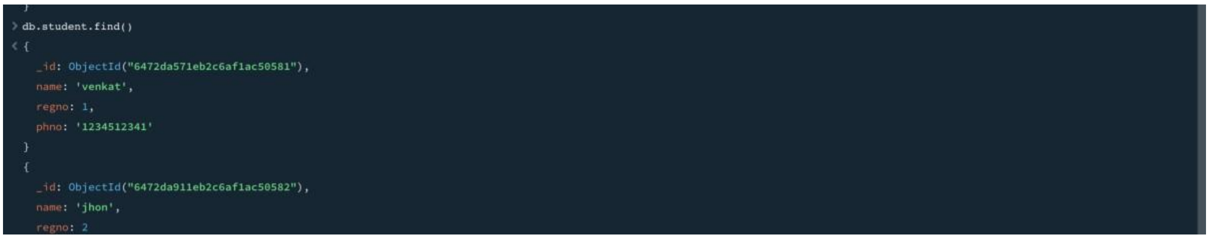


```
> show dbs
< admin     40.00 KiB
  config    72.00 KiB
  local     88.00 KiB
  youtube  144.00 KiB
> use week2
< switched to db week2
> show dbs
< admin     40.00 KiB
  config    96.00 KiB
  local     88.00 KiB
  youtube  144.00 KiB
> db
< week2
> db.createCollection('student')
< { ok: 1 }
> db.student.insertOne({'name':'venkat','regno':1,'phno':'1234512341'})
< {
    acknowledged: true,
    insertedId: ObjectId("6472da571eb2c6af1ac50581")
  }
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
> db.createCollection('student')
< { ok: 1 }
> db.student.insertOne({'name':'venkat','regno':1,'phno':'1234512341'})
< {
    acknowledged: true,
    insertedId: ObjectId("6472da571eb2c6af1ac50581")
  }
> db.student.insertOne({'name':'jhon','regno':2})
< {
    acknowledged: true,
    insertedId: ObjectId("6472da911eb2c6af1ac50582")
  }
week2 >
```

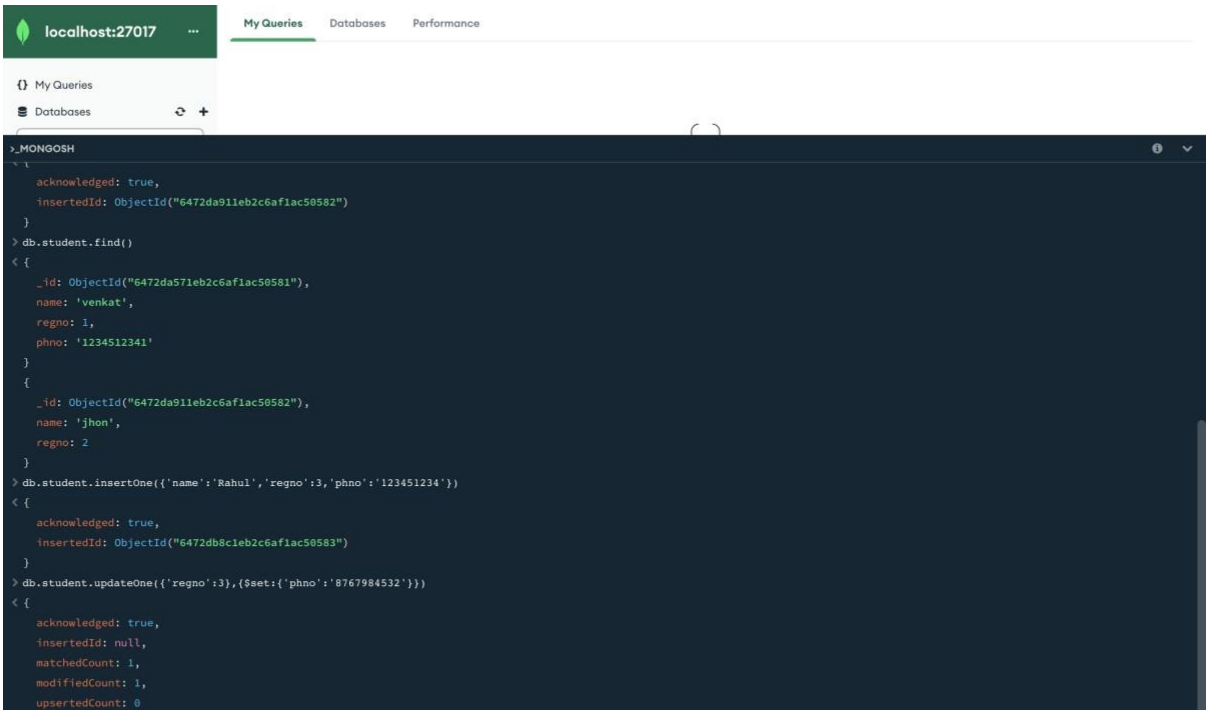
Find the inserted records



```
  }
> db.student.find()
< {
    _id: ObjectId("6472da571eb2c6af1ac50581"),
    name: 'venkat',
    regno: 1,
    phno: '1234512341'
  }
  {
    _id: ObjectId("6472da911eb2c6af1ac50582"),
    name: 'jhon',
    regno: 2
```

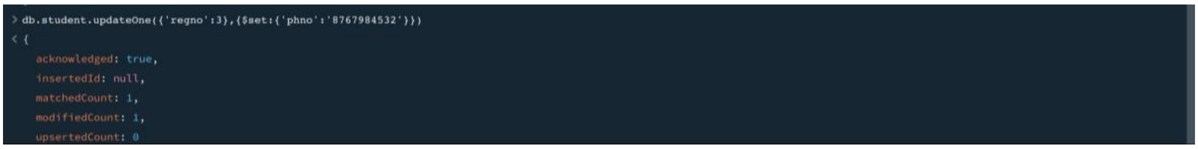
UPDATION

Updating the phone number of regno 3



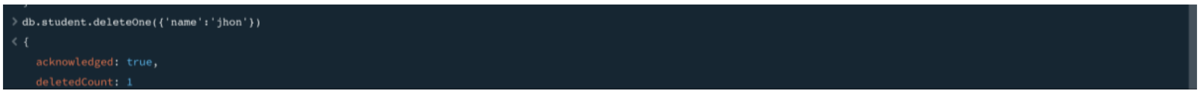
```
    acknowledged: true,
    insertedId: ObjectId("6472da911eb2c6af1ac50582")
  }
> db.student.find()
< {
    _id: ObjectId("6472da571eb2c6af1ac50581"),
    name: 'venkat',
    regno: 1,
    phno: '1234512341'
  }
  {
    _id: ObjectId("6472da911eb2c6af1ac50582"),
    name: 'jhon',
    regno: 2
  }
> db.student.insertOne({'name':'Rahul','regno':3,'phno':'123451234'})
< {
    acknowledged: true,
    insertedId: ObjectId("6472db8c1eb2c6af1ac50583")
  }
> db.student.updateOne({'regno':3},{$set:{'phno':'8767984532'}})
< {
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 1,
    upsertedCount: 0
```

Result.



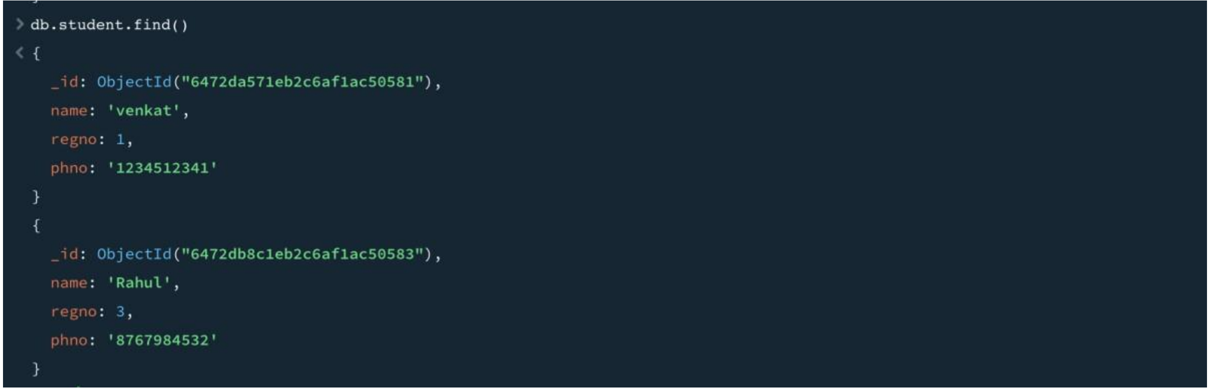
```
> db.student.updateOne({'regno':3},{$set:{'phno':'8767984532'}})
< {
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 1,
    upsertedCount: 0
```

DELETION



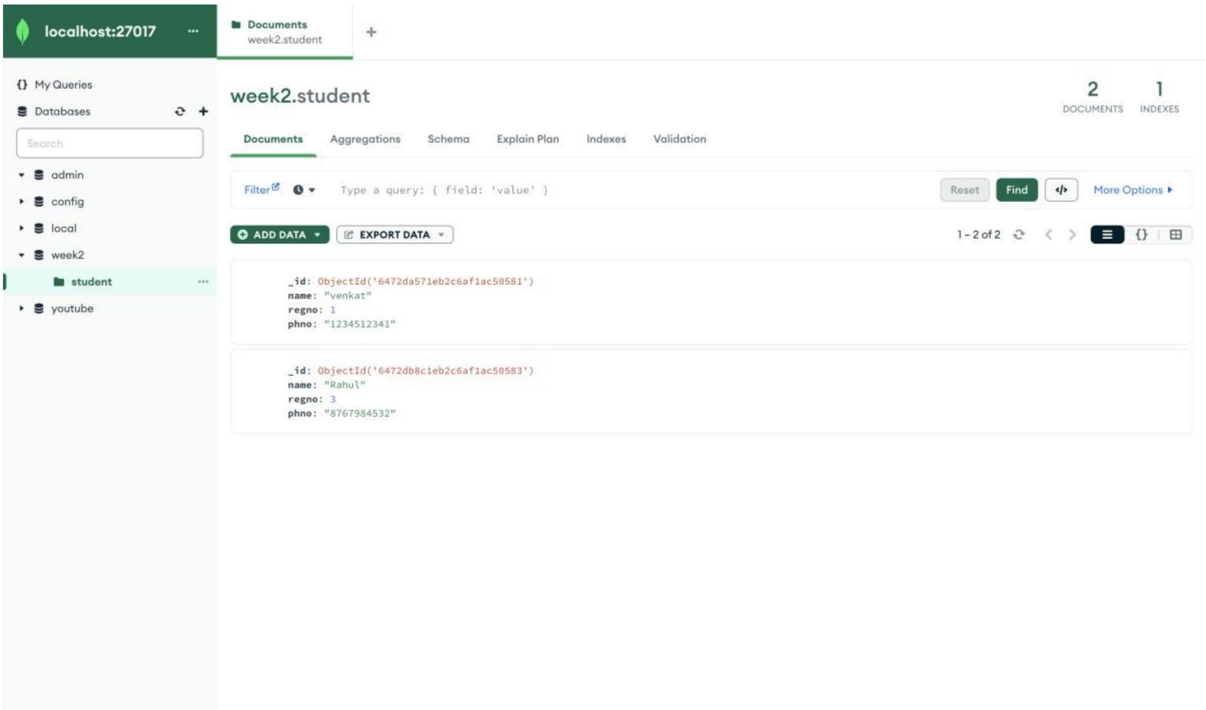
```
> db.student.deleteOne({'name':'jhon'})
< {
    acknowledged: true,
    deletedCount: 1
```

John record got deleted



```
> db.student.find()
< {
    _id: ObjectId("6472da571eb2c6af1ac50581"),
    name: 'venkat',
    regno: 1,
    phno: '1234512341'
  }
  {
    _id: ObjectId("6472db8c1eb2c6af1ac50583"),
    name: 'Rahul',
    regno: 3,
    phno: '8767984532'
  }
```

Refresh the compass databases on the left pane you canfind the database and records



```
_id: ObjectId('6472da571eb2c6af1ac50581')
name: "venkat"
regno: 1
phno: "1234512341"
```

```
_id: ObjectId('6472db8c1eb2c6af1ac50583')
name: "Rahul"
regno: 3
phno: "8767984532"
```