2️⃣

Java SpringBoot Assignment 2

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Q1) Create, Update and Delete commands in MySQL

```
create database school;

use school;

create table students (
  id INT PRIMARY KEY,
  name VARCHAR(50),
  age INT
);

insert into students (id, name, age)
values (1, 'Mayank', 20),
       (2, 'Arun', 22),
       (3, 'Anjali', 19);

select * from students;

update students
set name = 'Kartik'
where id = 2;

select * from students;

delete from students
where id = 3;

select * from students;
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	21:45:15	create database school	1 row(s) affected	0.000 sec
2	21:45:29	use school	0 row(s) affected	0.000 sec
3	21:45:51	create table students (id INT PRIMARY KEY, name VARCHAR(50), age INT)	0 row(s) affected	0.031 sec
4	21:47:03	insert into students (id, name, age) values (1, 'Mayank', 20), (2, 'Arun', 22), (3, 'Anjali', 19)	3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0	0.047 sec
5	21:47:41	select * from students LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
6	21:49:27	update students set name = 'Kartik' where id = 2	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.015 sec
7	21:49:35	select * from students LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
8	21:50:30	delete from students where id = 3	1 row(s) affected	0.000 sec
9	21:50:40	select * from students LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec

On displaying table

Result Grid | Filter Rc

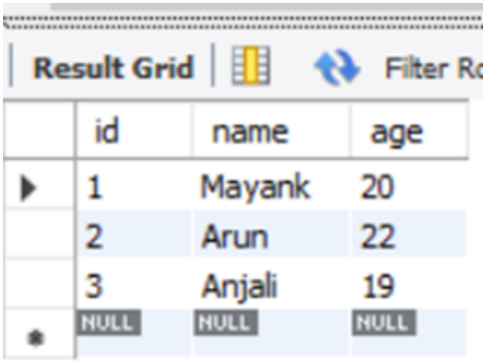
id	name	age
1	Mayank	20
2	Arun	22
3	Anjali	19
NULL	NULL	NULL

After updatation of table

Result Grid | Filter R

id	name	age
1	Mayank	20
2	Kartik	22
3	Anjali	19
NULL	NULL	NULL

After deleting entries table

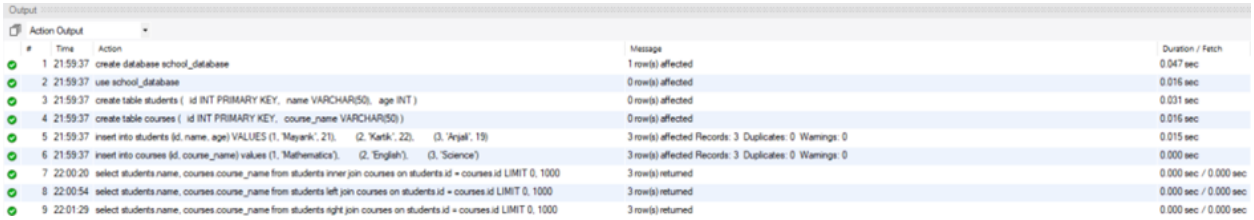


	id	name	age
▶	1	Mayank	20
	2	Arun	22
	3	Anjali	19
*	NULL	NULL	NULL

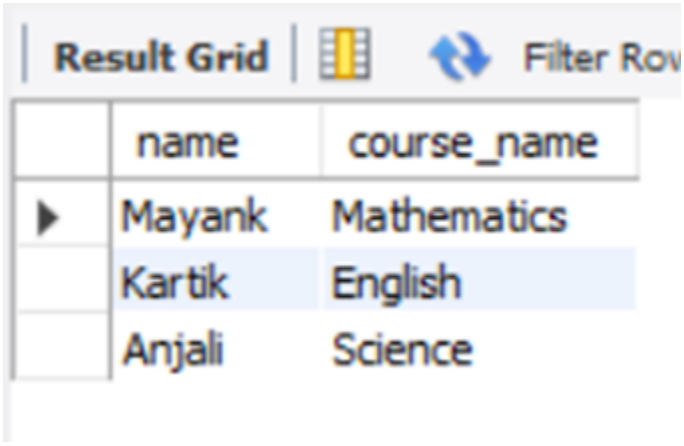
Q2) Join in MySQL

```
create database school_database;

use school_database;

create table students (
  id INT PRIMARY KEY,
  name VARCHAR(50),
  age INT
);

create table courses (
  id INT PRIMARY KEY,
  course_name VARCHAR(50)
);

insert into students (id, name, age)
VALUES (1, 'Mayank', 21),
       (2, 'Kartik', 22),
       (3, 'Anjali', 19);

insert into courses (id, course_name)
values (1, 'Mathematics'),
       (2, 'English'),
       (3, 'Science');

select students.name, courses.course_name
from students
inner join courses on students.id = courses.id;
```

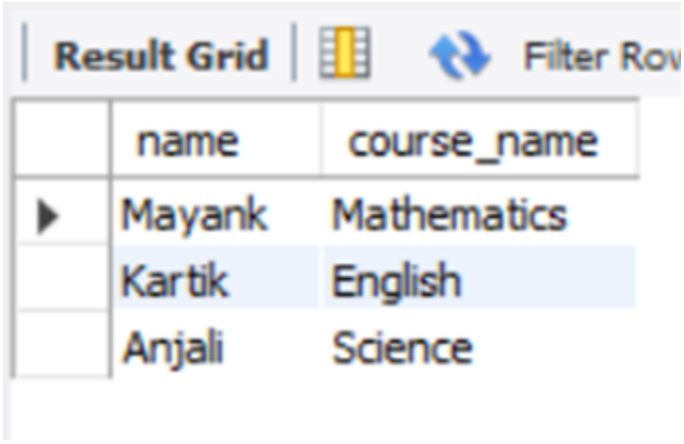
```
select students.name, courses.course_name
from students
left join courses on students.id = courses.id;

select students.name, courses.course_name
from students
right join courses on students.id = courses.id;

select students.name, courses.course_name
from students
full join courses on students.id = courses.id;
```



Inner Join

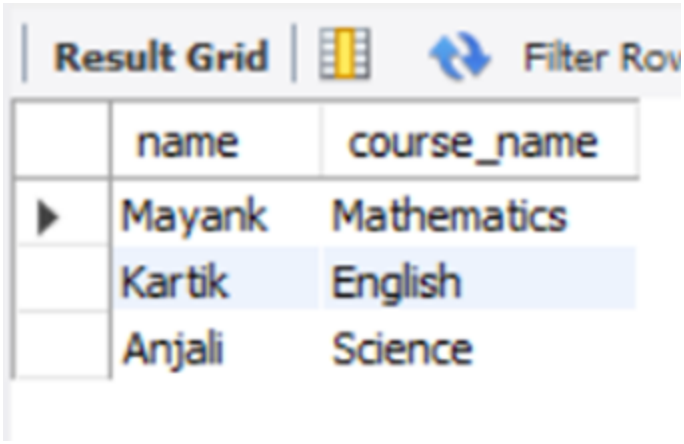


Left Join



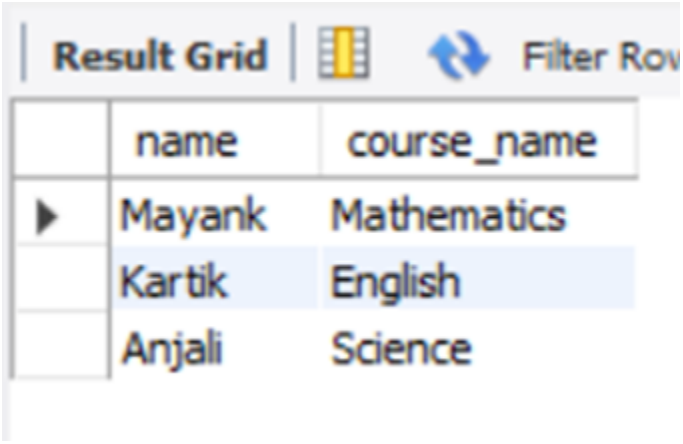
	name	course_name
▶	Mayank	Mathematics
	Kartik	English
	Anjali	Science

Right Join



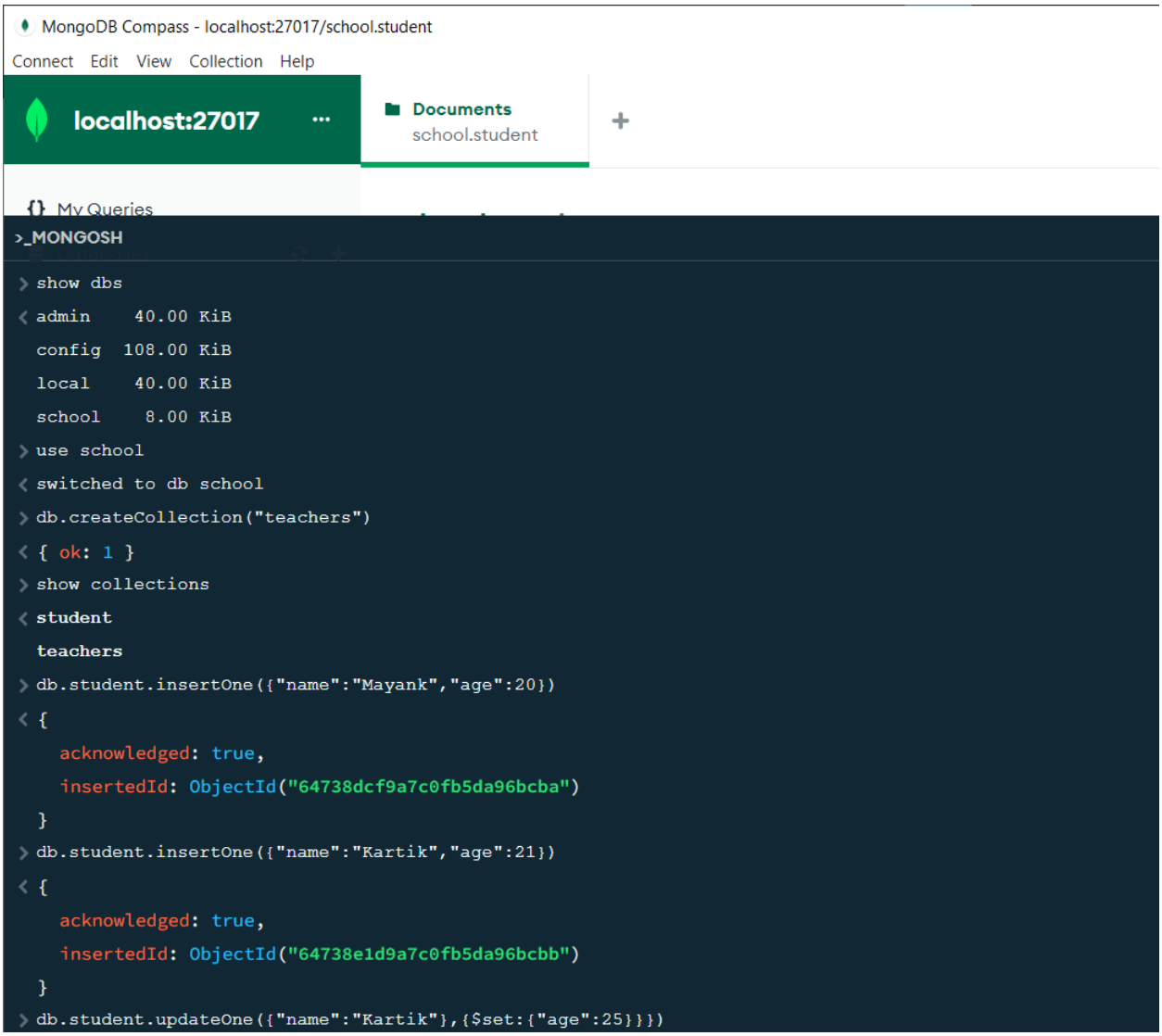
	name	course_name
▶	Mayank	Mathematics
	Kartik	English
	Anjali	Science

Full Join

- 

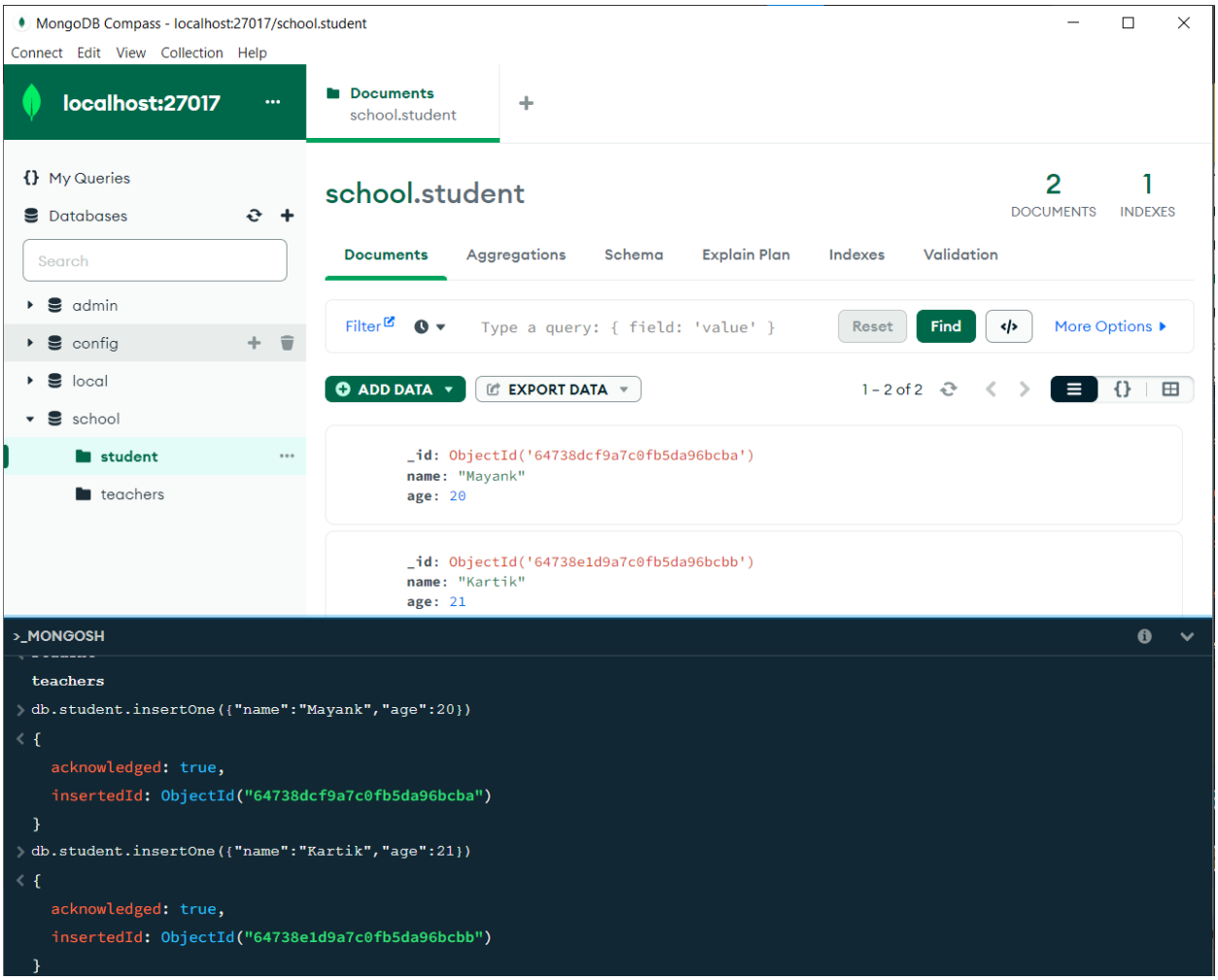
	name	course_name
▶	Mayank	Mathematics
	Kartik	English
	Anjali	Science

Create, Update, Delete commands in MongoDB

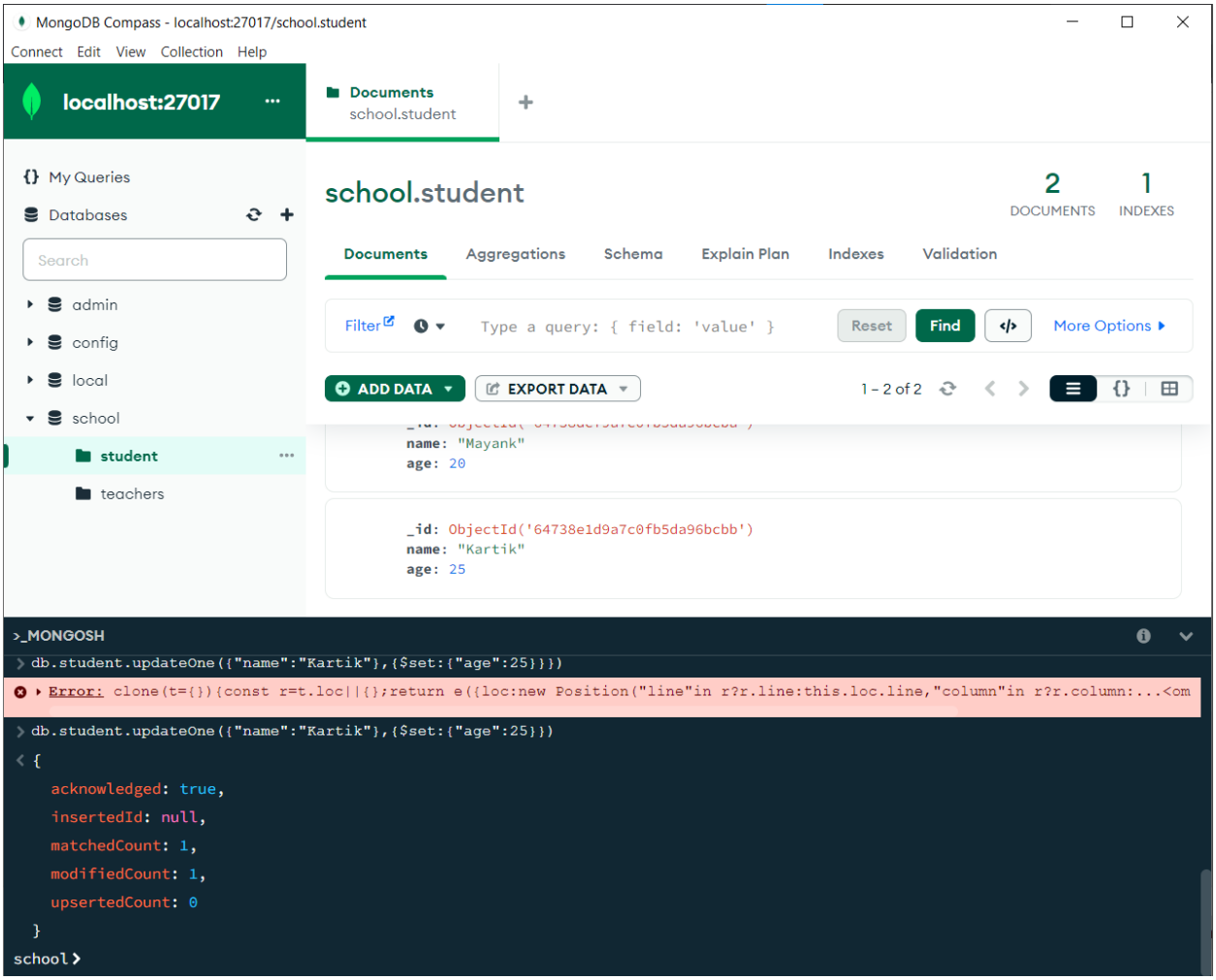

MongoDB Compass - localhost:27017/school.student
Connect Edit View Collection Help
localhost:27017
Documents
school.student
My Queries
>_MONGOSH
> show dbs
< admin 40.00 KiB
config 108.00 KiB
local 40.00 KiB
school 8.00 KiB
> use school
< switched to db school
> db.createCollection("teachers")
< { ok: 1 }
> show collections
< student
teachers
> db.student.insertOne({"name":"Mayank","age":20})
< {
acknowledged: true,
insertedId: ObjectId("64738dcf9a7c0fb5da96bcba")
}
> db.student.insertOne({"name":"Kartik","age":21})
< {
acknowledged: true,
insertedId: ObjectId("64738e1d9a7c0fb5da96bcbb")
}
> db.student.updateOne({"name":"Kartik"},{$set:{"age":25}})

> db.student.updateOne({"name":"Kartik"},{$set:{"age":25}})
< {
acknowledged: true,
insertedId: null,
matchedCount: 1,
modifiedCount: 1,
upsertedCount: 0
}
> db.student.deleteOne({"name":"Mayank"})
< {
acknowledged: true,
deletedCount: 1
}
school>

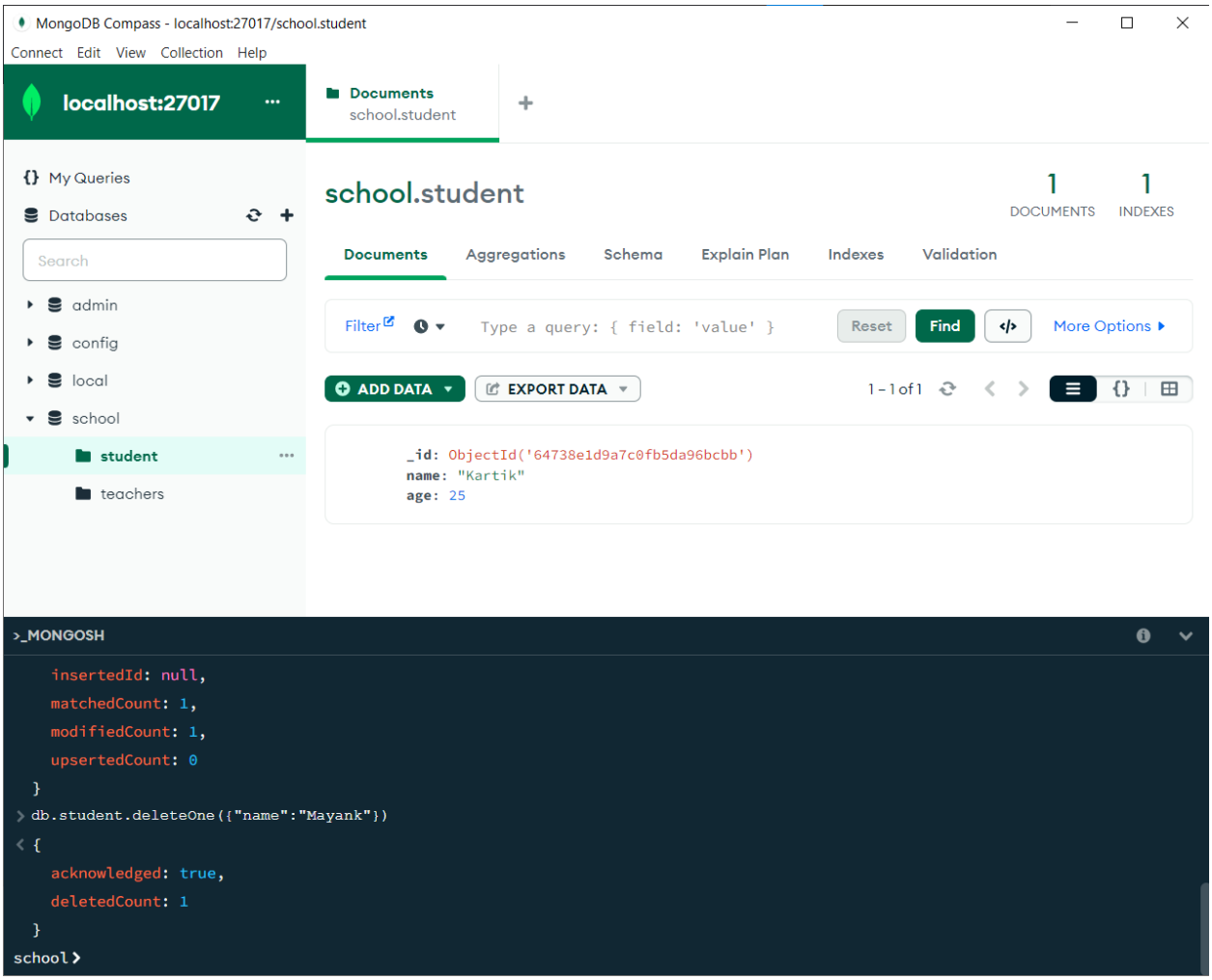
Create Entry



Update Entry



Delete Entry


MongoDB Compass - localhost:27017/school.student
Connect Edit View Collection Help
localhost:27017
Documents
school.student
My Queries
Databases
Search
admin
config
local
school
student
teachers
school.student
1
DOCUMENTS
1
INDEXES
Documents
Aggregations
Schema
Explain Plan
Indexes
Validation
Filter
Type a query: { field: 'value' }
Reset
Find
More Options
ADD DATA
EXPORT DATA
1 - 1 of 1
_id: ObjectId('64738e1d9a7c0fb5da96bcbb')
name: "Kartik"
age: 25
>_MONGOSH
insertedId: null,
matchedCount: 1,
modifiedCount: 1,
upsertedCount: 0
db.student.deleteOne({"name":"Mayank"})
acknowledged: true,
deletedCount: 1
school>