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Assignment - 2

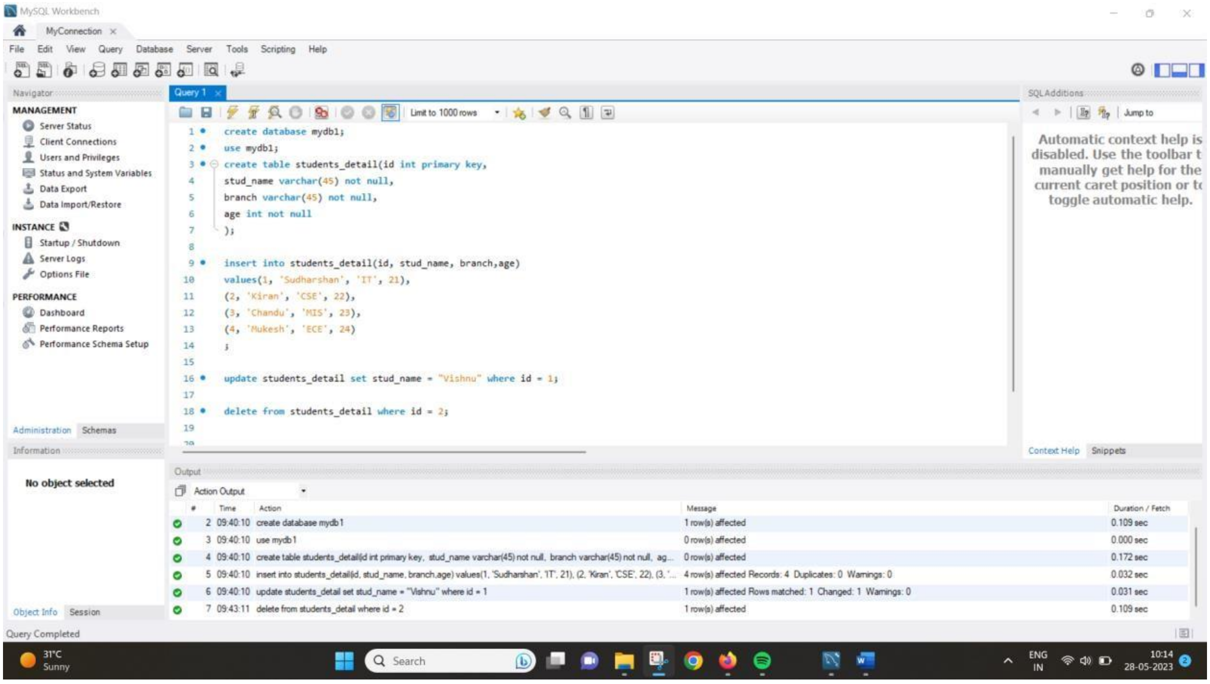
Question:

1. Create, update, delete commands in mysql
2. Create tables, and perform joins in mysql
3. Create, update, delete commands in mongo

MySQL commands:

1. Create, update, delete commands in MySQL

```
create database mydb1;
use mydb1;
create table students_detail(id int primary key,
stud_name varchar(45) not null,
branch varchar(45) not null,
age int not null
);

insert into students_detail(id, stud_name, branch,age)
values(1, 'Sudharshan', 'IT', 21),
(2, 'Kiran', 'CSE', 22),
(3, 'Chandu', 'MIS', 23),
(4, 'Mukesh', 'ECE', 24)
;

update students_detail set stud_name = "Vishnu" where id = 1;

delete from students_detail where id = 2;
```

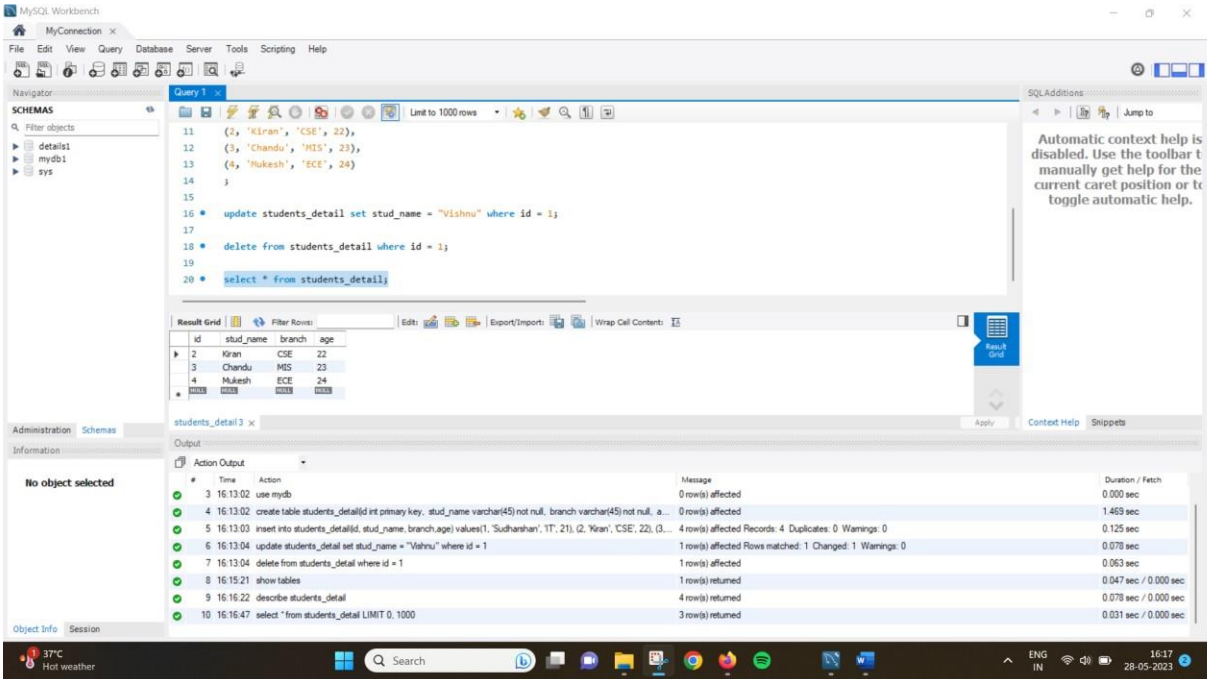


```
create database mydb1;
use mydb1;
create table students_detail(id int primary key,
stud_name varchar(45) not null,
branch varchar(45) not null,
age int not null
);

insert into students_detail(id, stud_name, branch,age)
values(1, 'Sudharshan', 'IT', 21),
(2, 'Kiran', 'CSE', 22),
(3, 'Chandu', 'MIS', 23),
(4, 'Mukesh', 'ECE', 24)
;

update students_detail set stud_name = "Vishnu" where id = 1;

delete from students_detail where id = 2;
```

Output

Action Output

```
#  Time      Action                                                                                                  Message                                                   Duration / Fetch
2  09:40:10  create database mydb1                                                                                   1 row(s) affected                                         0.109 sec
3  09:40:10  use mydb1                                                                                               0 row(s) affected                                         0.000 sec
4  09:40:10  create table students_detail(id int primary key,  stud_name varchar(45) not null,  branch varchar(45) not null,  ag...   0 row(s) affected                 0.172 sec
5  09:40:10  insert into students_detail(id, stud_name, branch,age) values(1, 'Sudharshan', 'IT', 21), (2, 'Kiran', 'CSE', 22), (3, '...   4 row(s) affected Records: 4  Duplicates: 0  Warnings: 0   0.032 sec
6  09:40:10  update students_detail set stud_name = "Vishnu" where id = 1                                            1 row(s) affected Rows matched: 1  Changed: 1  Warnings: 0   0.031 sec
7  09:43:11  delete from students_detail where id = 2                                                                1 row(s) affected                                         0.109 sec
```



```
(2, 'Kiran', 'CSE', 22),
(3, 'Chandu', 'MIS', 23),
(4, 'Mukesh', 'ECE', 24)
;

update students_detail set stud_name = "Vishnu" where id = 1;

delete from students_detail where id = 1;

select * from students_detail;
```

id	stud_name	branch	age
2	Kiran	CSE	22
3	Chandu	MIS	23
4	Mukesh	ECE	24
NULL	NULL	NULL	NULL

Output

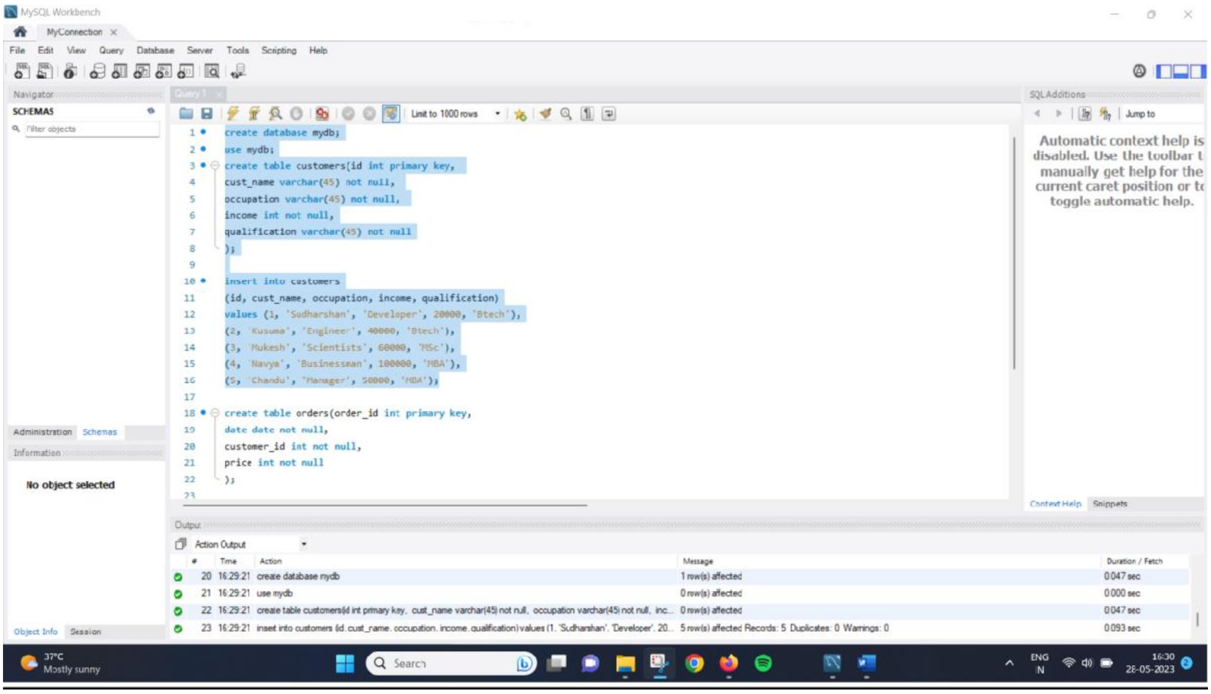
Action Output

```
#   Time      Action                                                                                                  Message                                                   Duration / Fetch
3   16:13:02  use mydb                                                                                                0 row(s) affected                                         0.000 sec
4   16:13:02  create table students_detail(id int primary key,  stud_name varchar(45) not null,  branch varchar(45) not null,  a...   0 row(s) affected                  1.469 sec
5   16:13:03  insert into students_detail(id, stud_name, branch,age) values(1, 'Sudharshan', 'IT', 21), (2, 'Kiran', 'CSE', 22), (3,...   4 row(s) affected Records: 4  Duplicates: 0  Warnings: 0   0.125 sec
6   16:13:04  update students_detail set stud_name = "Vishnu" where id = 1                                            1 row(s) affected Rows matched: 1  Changed: 1  Warnings: 0   0.078 sec
7   16:13:04  delete from students_detail where id = 1                                                                1 row(s) affected                                         0.063 sec
8   16:15:21  show tables                                                                                             1 row(s) returned                                         0.047 sec / 0.000 sec
9   16:16:22  describe students_detail                                                                                4 row(s) returned                                         0.078 sec / 0.000 sec
10  16:16:47  select * from students_detail LIMIT 0, 1000                                                             3 row(s) returned                                         0.031 sec / 0.000 sec
```

2. Create tables, and perform join operations in MySQL

```
create database mydb;
use mydb;
create table customers(id int primary key,
cust_name varchar(45) not null,
occupation varchar(45) not null,
income int not null,
qualification varchar(45) not null
);

insert into customers
(id, cust_name, occupation, income, qualification)
values (1, 'Sudharshan', 'Developer', 20000, 'Btech'),
(2, 'Kusuma', 'Engineer', 40000, 'Btech'),
(3, 'Mukesh', 'Scientists', 60000, 'MSc'),
(4, 'Navya', 'Businessman', 100000, 'MBA'),
(5, 'Chandu', 'Manager', 50000, 'MBA');

create table orders(order_id int primary key,
date date not null,
customer_id int not null,
price int not null
);

insert into orders
(order_id, date, customer_id, price)
values (1001, '2020-03-20', 2, 300),
(1002, '2020-02-15',4, 2500),
(1003, '2020-01-31', 5, 5000),
(1004, '2020-09-23', 2, 1500),
(1005, '2020-09-30', 1, 4500);

select customers.id, customers.cust_name, customers.income,
orders.price
from customers
```

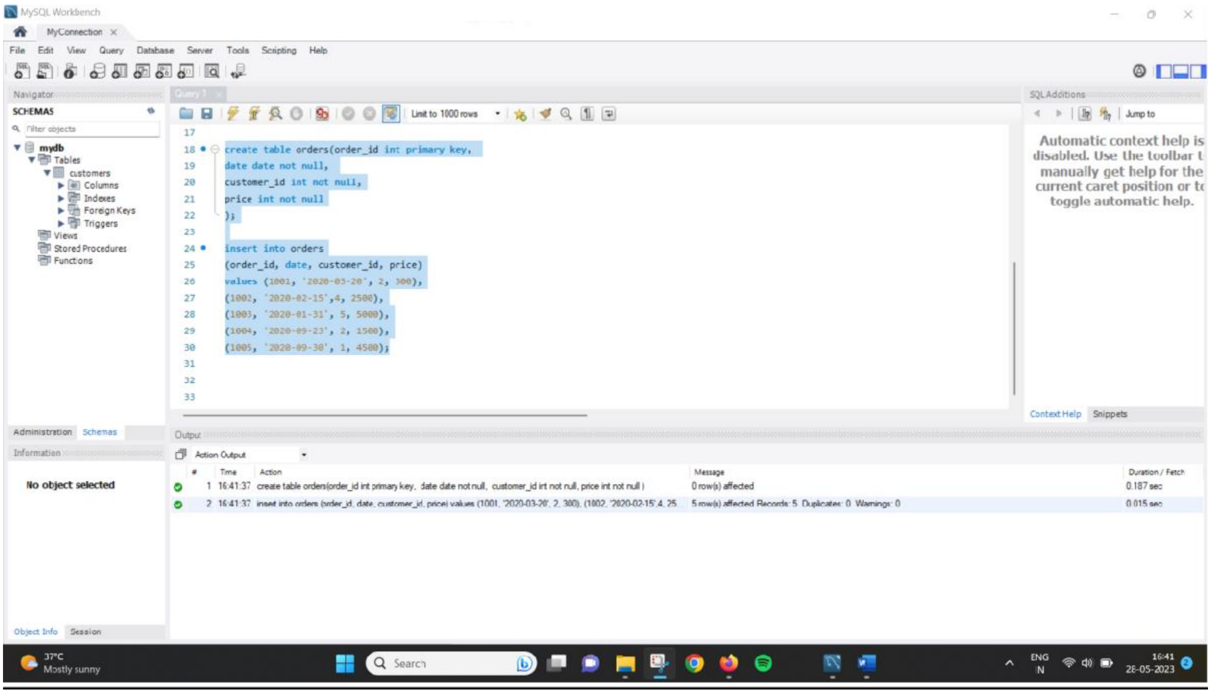
```
inner join orders
on customers.id = orders.customer_id;

select customers.id, customers.cust_name, customers.income,
orders.price
from customers
left join orders
on customers.id = orders.customer_id;

select customers.id, customers.cust_name, customers.income,
orders.price
from customers
right join orders
on customers.id = orders.customer_id;
```



```
create database mydb;
use mydb;
create table customers(id int primary key,
cust_name varchar(45) not null,
occupation varchar(45) not null,
income int not null,
qualification varchar(45) not null
);

insert into customers
(id, cust_name, occupation, income, qualification)
values (1, 'Sudharshan', 'Developer', 20000, 'Btech'),
(2, 'Kusuma', 'Engineer', 40000, 'Btech'),
(3, 'Mukesh', 'Scientists', 60000, 'MSc'),
(4, 'Navya', 'Businessman', 100000, 'MBA'),
(5, 'Chandu', 'Manager', 50000, 'MBA');

create table orders(order_id int primary key,
date date not null,
customer_id int not null,
price int not null
);
```

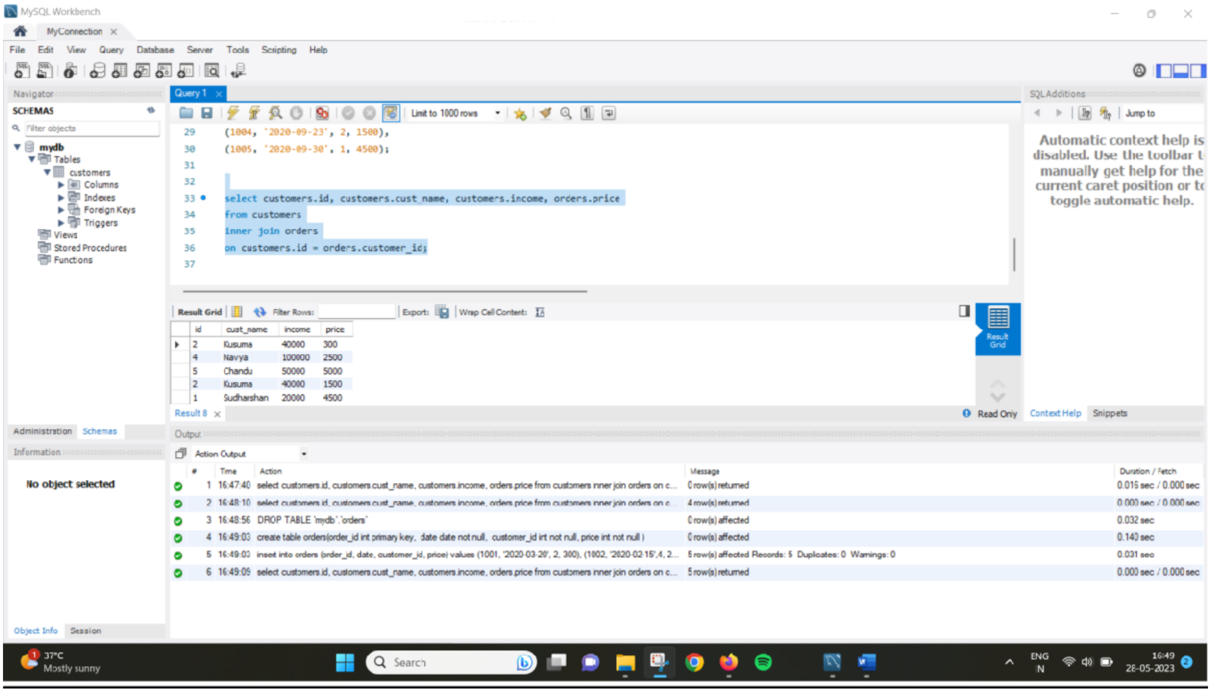
Automatic context help is disabled. Use the toolbar t manually get help for the current caret position or to toggle automatic help.

```
#   Time      Action                                                                                        Message                                             Duration / Fetch
20  16:29:21  create database mydb                                                                          1 row(s) affected                                   0.047 sec
21  16:29:21  use mydb                                                                                      0 row(s) affected                                   0.000 sec
22  16:29:21  create table customers(id int primary key,  cust_name varchar(45) not null,  occupation varchar(45) not null,  inc...   0 row(s) affected   0.047 sec
23  16:29:21  inset into customers (id. cust_name. occupation. income. qualification) values (1. 'Sudharshan'. 'Developer'. 20...   5 row(s) affected Records: 5  Duplicates: 0  Warnings: 0   0.093 sec
```



```sql
create table orders(order_id int primary key,
date date not null,
customer_id int not null,
price int not null
);

insert into orders
(order_id, date, customer_id, price)
values (1001, '2020-03-20', 2, 300),
(1002, '2020-02-15',4, 2500),
(1003, '2020-01-31', 5, 5000),
(1004, '2020-09-23', 2, 1500),
(1005, '2020-09-30', 1, 4500);
```

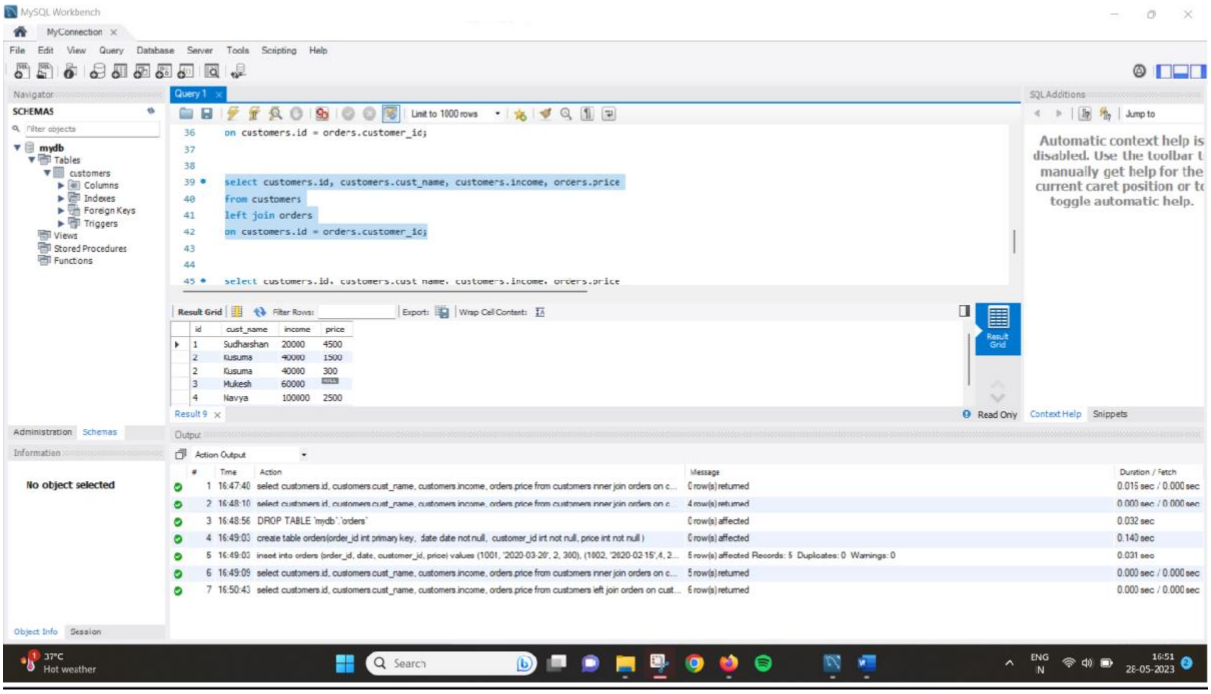
```
#  Time      Action                                                                                                     Message                                                  Duration / Fetch
1  16:41:37  create table orders(order_id int primary key,  date date not null,  customer_id int not null, price int not null )   0 row(s) affected                                        0.187 sec
2  16:41:37  insert into orders (order_id, date, customer_id, price) values (1001, '2020-03-20', 2, 300), (1002, '2020-02-15',4, 25...   5 row(s) affected Records: 5  Duplicates: 0  Warnings: 0   0.015 sec
```



```sql
(1004, '2020-09-23', 2, 1500),
(1005, '2020-09-30', 1, 4500);


select customers.id, customers.cust_name, customers.income, orders.price
from customers
inner join orders
on customers.id = orders.customer_id;
```

id	cust_name	income	price
2	Kusuma	40000	300
4	Navya	100000	2500
5	Chandu	50000	5000
2	Kusuma	40000	1500
1	Sudharshan	20000	4500

```
#  Time      Action                                                                                                       Message                                                  Duration / Fetch
1  16:47:40  select customers.id, customers.cust_name, customers.income, orders.price from customers inner join orders on c...   0 row(s) returned                                        0.015 sec / 0.000 sec
2  16:48:10  select customers.id, customers.cust_name, customers.income, orders.price from customers inner join orders on c...   4 row(s) returned                                        0.000 sec / 0.000 sec
3  16:48:56  DROP TABLE `mydb`.`orders`                                                                                         0 row(s) affected                                        0.032 sec
4  16:49:03  create table orders(order_id int primary key,  date date not null,  customer_id int not null, price int not null )     0 row(s) affected                                        0.140 sec
5  16:49:03  insert into orders (order_id, date, customer_id, price) values (1001, '2020-03-20', 2, 300), (1002, '2020-02-15',4, 2...   5 row(s) affected Records: 5  Duplicates: 0  Warnings: 0   0.031 sec
6  16:49:09  select customers.id, customers.cust_name, customers.income, orders.price from customers inner join orders on c...   5 row(s) returned                                        0.000 sec / 0.000 sec
```

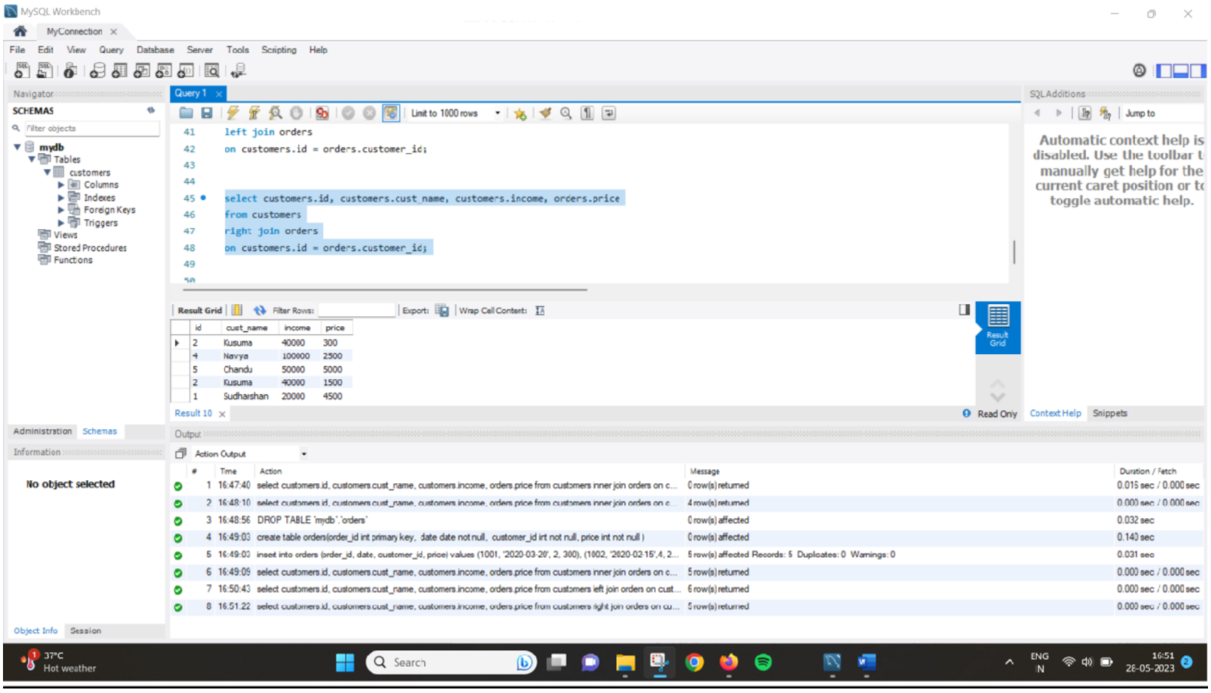


Automatic context help is disabled. Use the toolbar t manually get help for the current caret position or tc toggle automatic help.

```
on customers.id = orders.customer_id;


select customers.id, customers.cust_name, customers.income, orders.price
from customers
left join orders
on customers.id = orders.customer_id;


select customers.id. customers.cust name. customers.income. orders.price
```

id	cust_name	income	price
1	Sudharshan	20000	4500
2	Kusuma	40000	1500
2	Kusuma	40000	300
3	Mukesh	60000	NULL
4	Navya	100000	2500

```
#  Time      Action                                                                                                        Message                                                    Duration / Fetch
1  16:47:40  select customers.id, customers.cust_name, customers.income, orders.price from customers inner join orders on c...  0 row(s) returned                                          0.015 sec / 0.000 sec
2  16:48:10  select customers.id, customers.cust_name, customers.income, orders.price from customers inner join orders on c...  4 row(s) returned                                          0.000 sec / 0.000 sec
3  16:48:56  DROP TABLE `mydb`.`orders`                                                                                    0 row(s) affected                                          0.032 sec
4  16:49:03  create table orders(order_id int primary key,  date date not null,  customer_id int not null, price int not null )  0 row(s) affected                                      0.140 sec
5  16:49:03  insert into orders (order_id, date, customer_id, price) values (1001, '2020-03-20', 2, 300), (1002, '2020-02-15',4, 2...  5 row(s) affected Records: 5  Duplicates: 0  Warnings: 0  0.031 sec
6  16:49:09  select customers.id, customers.cust_name, customers.income, orders.price from customers inner join orders on c...  5 row(s) returned                                          0.000 sec / 0.000 sec
7  16:50:43  select customers.id, customers.cust_name, customers.income, orders.price from customers left join orders on cust...  6 row(s) returned                                          0.000 sec / 0.000 sec
```



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

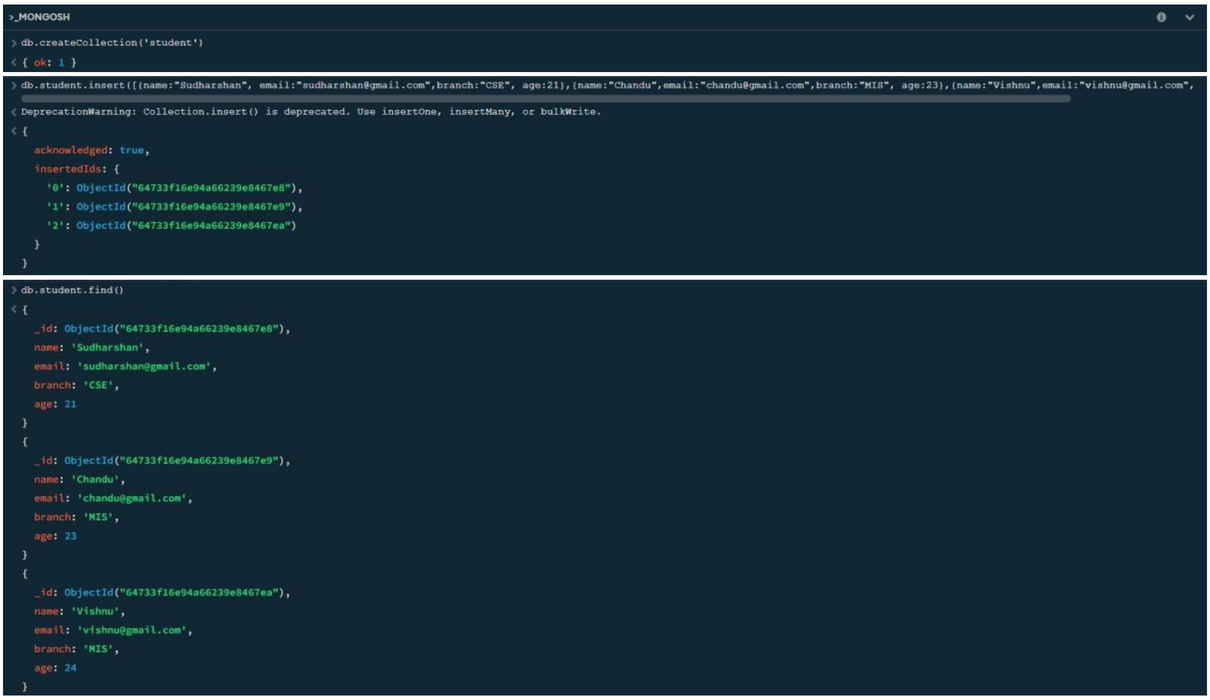
```
left join orders
on customers.id = orders.customer_id;


select customers.id, customers.cust_name, customers.income, orders.price
from customers
right join orders
on customers.id = orders.customer_id;
```

id	cust_name	income	price
2	Kusuma	40000	300
4	Navya	100000	2500
5	Chandu	50000	5000
2	Kusuma	40000	1500
1	Sudharshan	20000	4500

```
#  Time      Action                                                                                                        Message                                                    Duration / Fetch
1  16:47:40  select customers.id, customers.cust_name, customers.income, orders.price from customers inner join orders on c...  0 row(s) returned                                          0.015 sec / 0.000 sec
2  16:48:10  select customers.id, customers.cust_name, customers.income, orders.price from customers inner join orders on c...  4 row(s) returned                                          0.000 sec / 0.000 sec
3  16:48:56  DROP TABLE `mydb`.`orders`                                                                                    0 row(s) affected                                          0.032 sec
4  16:49:03  create table orders(order_id int primary key,  date date not null,  customer_id int not null, price int not null )  0 row(s) affected                                      0.140 sec
5  16:49:03  insert into orders (order_id, date, customer_id, price) values (1001, '2020-03-20', 2, 300), (1002, '2020-02-15',4, 2...  5 row(s) affected Records: 5  Duplicates: 0  Warnings: 0  0.031 sec
6  16:49:09  select customers.id, customers.cust_name, customers.income, orders.price from customers inner join orders on c...  5 row(s) returned                                          0.000 sec / 0.000 sec
7  16:50:43  select customers.id, customers.cust_name, customers.income, orders.price from customers left join orders on cust...  6 row(s) returned                                          0.000 sec / 0.000 sec
8  16:51:22  select customers.id, customers.cust_name, customers.income, orders.price from customers right join orders on cu...  5 row(s) returned                                          0.000 sec / 0.000 sec
```

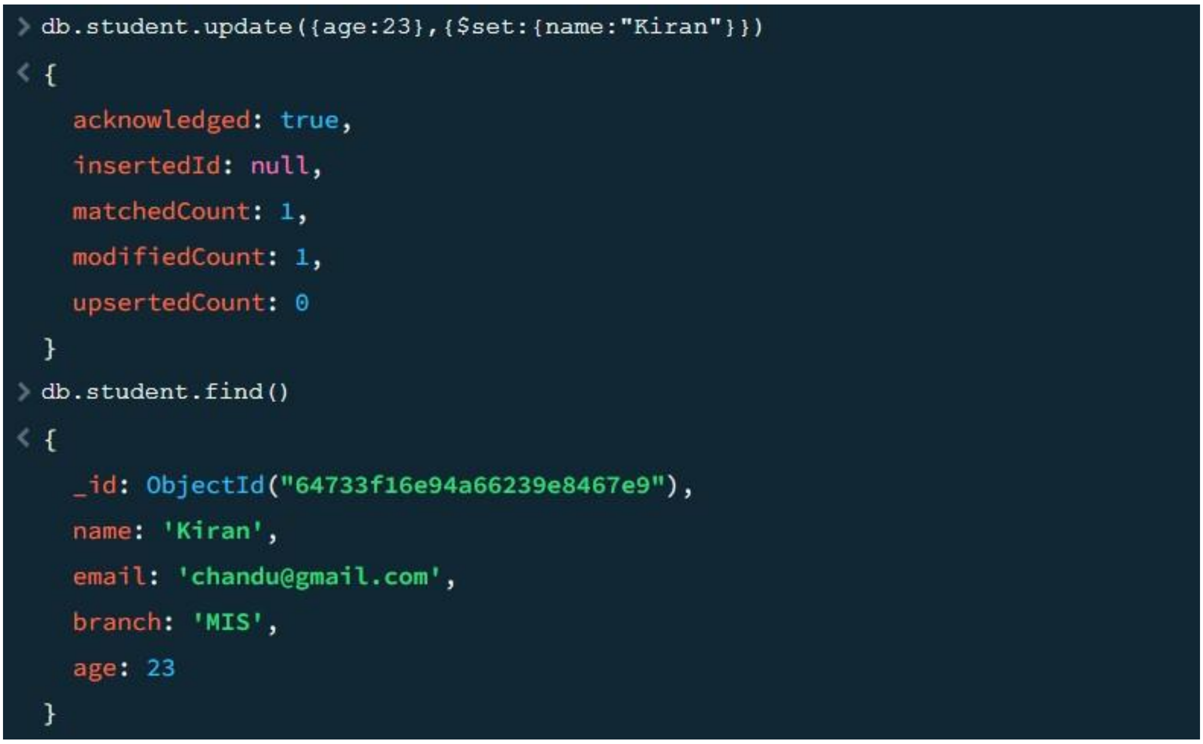
3. Create, update, delete commands in MongoDB.

Create:



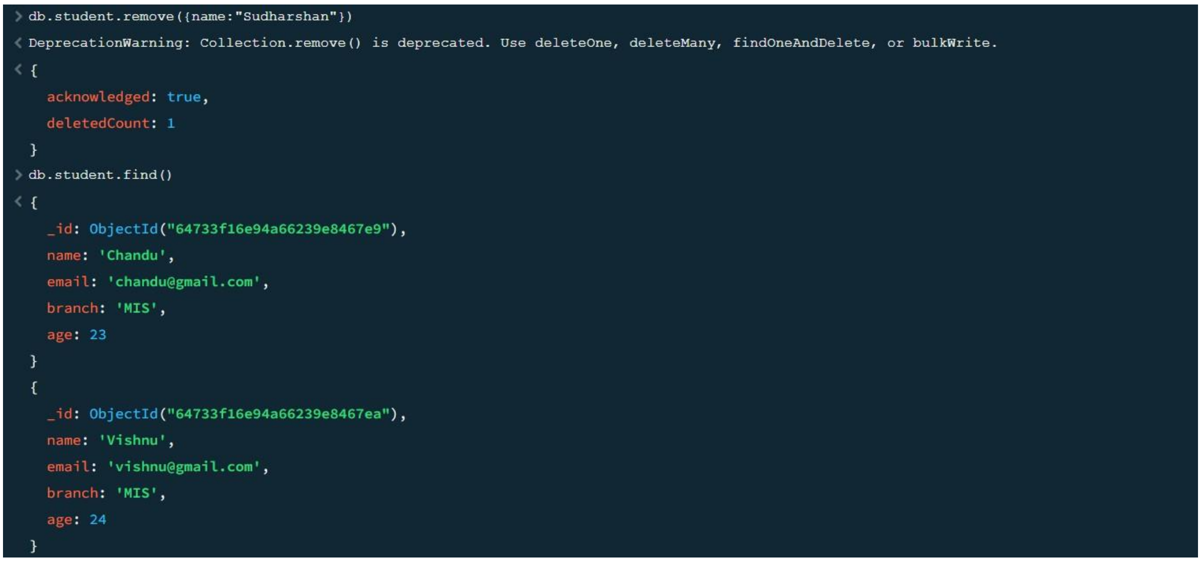
```
> db.createCollection('student')
< { ok: 1 }
> db.student.insert([{name:"Sudharshan", email:"sudharshan@gmail.com",branch:"CSE", age:21},{name:"Chandu",email:"chandu@gmail.com",branch:"MIS", age:23},{name:"Vishnu",email:"vishnu@gmail.com",
< DeprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite.
< {
    acknowledged: true,
    insertedIds: {
      '0': ObjectId("64733f16e94a66239e8467e8"),
      '1': ObjectId("64733f16e94a66239e8467e9"),
      '2': ObjectId("64733f16e94a66239e8467ea")
    }
  }
> db.student.find()
< {
    _id: ObjectId("64733f16e94a66239e8467e8"),
    name: 'Sudharshan',
    email: 'sudharshan@gmail.com',
    branch: 'CSE',
    age: 21
  }
  {
    _id: ObjectId("64733f16e94a66239e8467e9"),
    name: 'Chandu',
    email: 'chandu@gmail.com',
    branch: 'MIS',
    age: 23
  }
  {
    _id: ObjectId("64733f16e94a66239e8467ea"),
    name: 'Vishnu',
    email: 'vishnu@gmail.com',
    branch: 'MIS',
    age: 24
  }
```

Update:

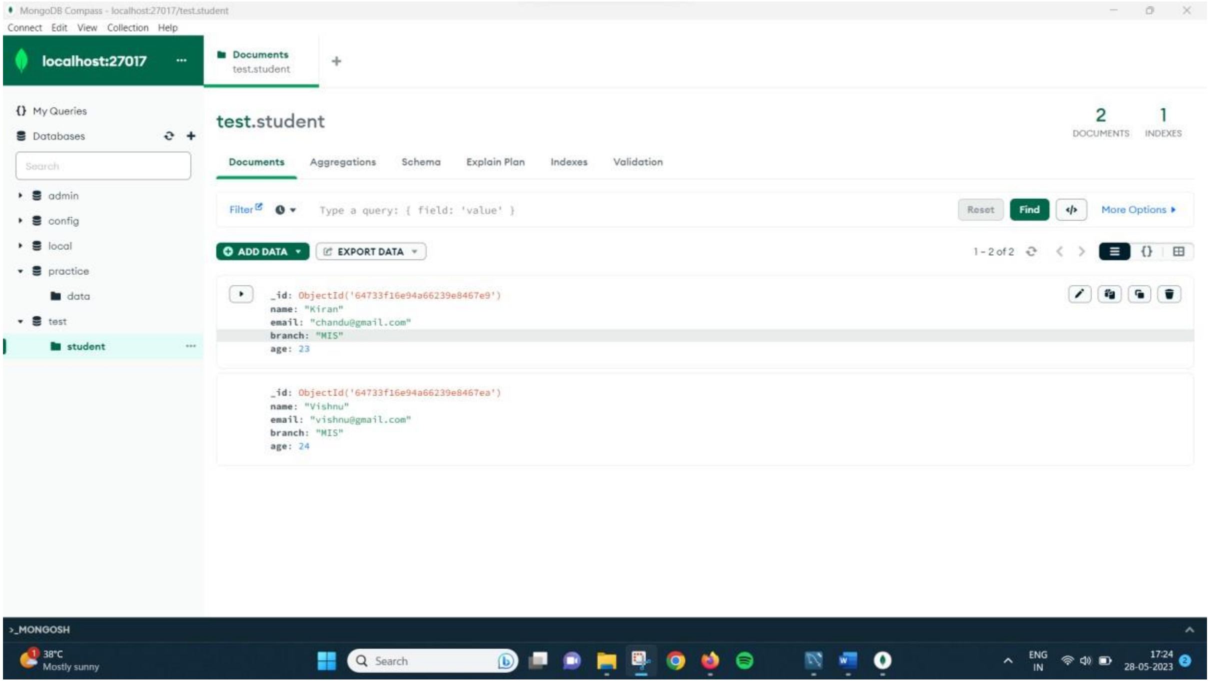


```
> db.student.update({age:23},{$set:{name:"Kiran"}})
< {
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 1,
    upsertedCount: 0
  }
> db.student.find()
< {
    _id: ObjectId("64733f16e94a66239e8467e9"),
    name: 'Kiran',
    email: 'chandu@gmail.com',
    branch: 'MIS',
    age: 23
  }
```

Delete:



```
> db.student.remove({name:"Sudharshan"})
< DeprecationWarning: Collection.remove() is deprecated. Use deleteOne, deleteMany, findOneAndDelete, or bulkWrite.
< {
    acknowledged: true,
    deletedCount: 1
  }
> db.student.find()
< {
    _id: ObjectId("64733f16e94a66239e8467e9"),
    name: 'Chandu',
    email: 'chandu@gmail.com',
    branch: 'MIS',
    age: 23
  }
  {
    _id: ObjectId("64733f16e94a66239e8467ea"),
    name: 'Vishnu',
    email: 'vishnu@gmail.com',
    branch: 'MIS',
    age: 24
  }
```



```
_id: ObjectId('64733f16e94a66239e8467e9')
name: "Kiran"
email: "chandu@gmail.com"
branch: "MIS"
age: 23

_id: ObjectId('64733f16e94a66239e8467ea')
name: "Vishnu"
email: "vishnu@gmail.com"
branch: "MIS"
age: 24
```