

# **MODERN APPLICATION DEVELOPMENT (JAVA SPRING BOOT)**

## **ASSIGNMENT-2**

**NAME:** SHANMUGA PRIYAN T

**REGNO:** 20MIS0286

**COLLEGE:** VIT VELLORE

**BRANCH:** INTEGRATED M TECH (SOFTWARE  
ENGINEERING)

### **GOOGLE DRIVE LINK:**

**[https://drive.google.com/drive/folders/1YHgekBn7JLaHF0JJWqgxo0yGPRw1ixIu?usp=share\\_link](https://drive.google.com/drive/folders/1YHgekBn7JLaHF0JJWqgxo0yGPRw1ixIu?usp=share_link)**

## **MYSQL & MONGO DB**

**(i)Create , update, delete commands in MYSQL.**

### **Create()**

# SHANMUGA PRIYAN T , Regno:20MIS0286, VIT VELLORE

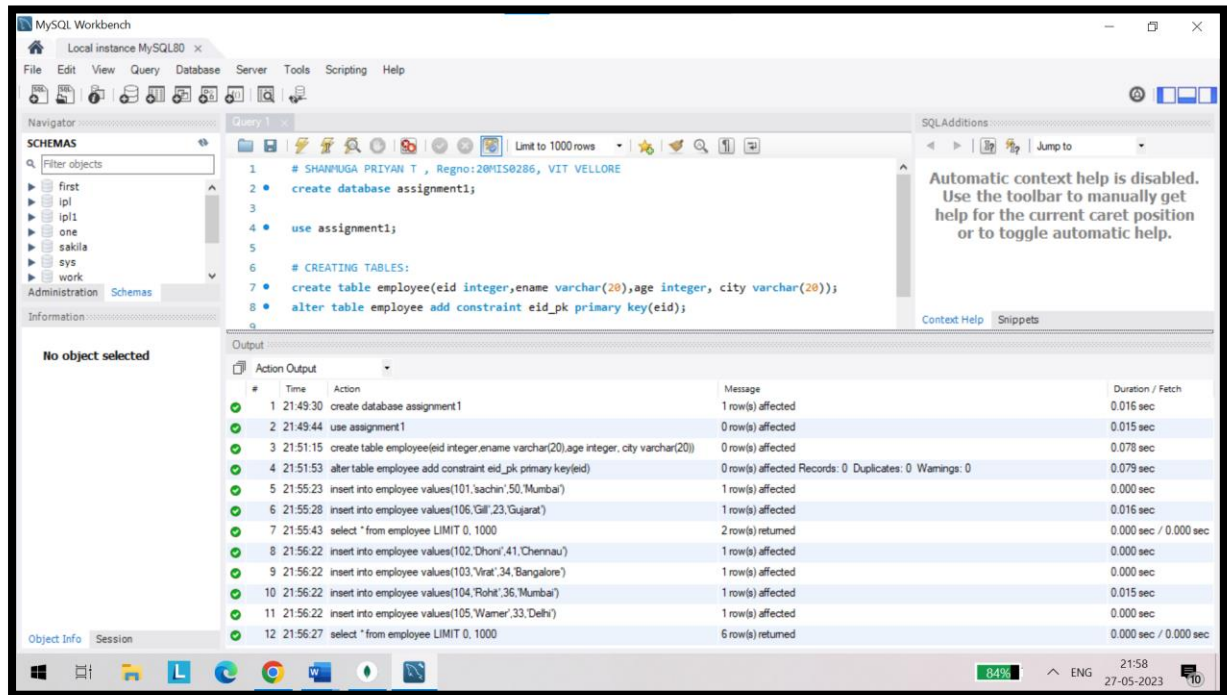
create database assignment1;

use assignment1;

## # CREATING TABLES:

```
create table employee(eid integer,ename varchar(20),age integer, city  
varchar(20));
```

```
alter table employee add constraint eid_pk primary key(eid);
```



## Insert()

```
insert into employee values(101,'sachin',50,'Mumbai');
```

```
insert into employee values(102,'Dhoni',41,'Chennau');
```

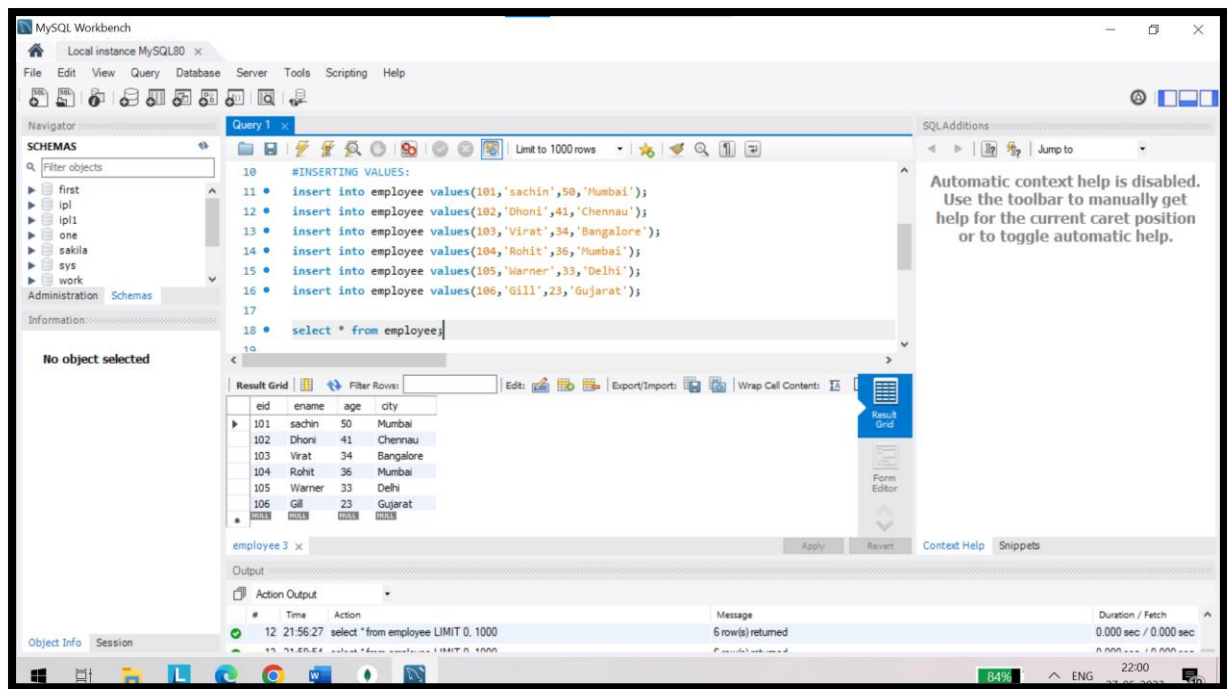
```
insert into employee values(103,'Virat',34,'Bangalore');
```

```
insert into employee values(104,'Rohit',36,'Mumbai');
```

```
insert into employee values(105,'Warner',33,'Delhi');
```

```
insert into employee values(106,'Gill',23,'Gujarat');
```

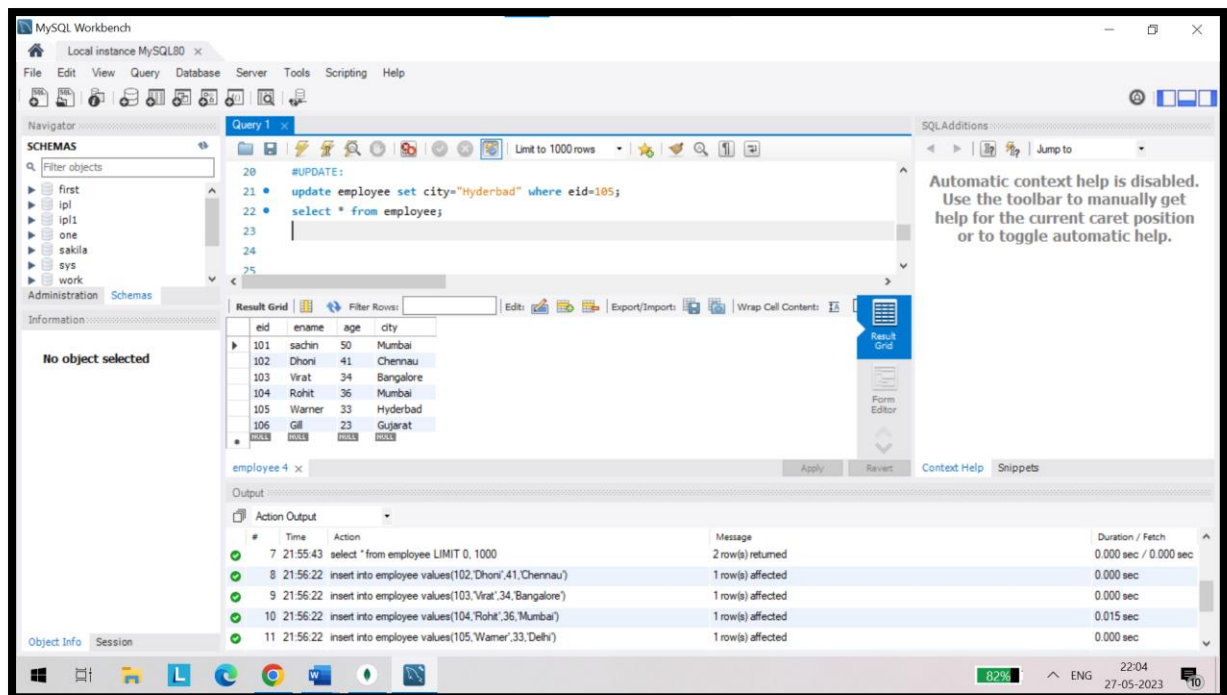
```
select * from employee;
```



## Update():

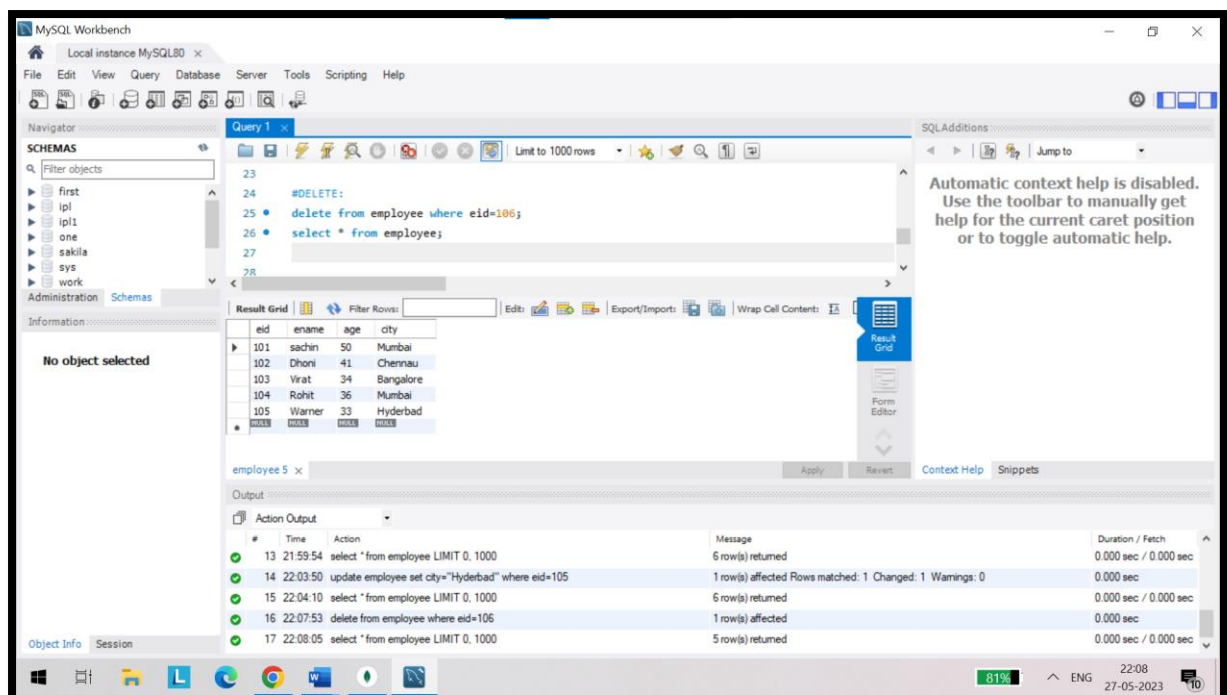
Updating the city of eid=105 ( warner) from “Delhi” to “Hyderabad”.

update employee set city="Hyderabad" where eid=105;



## Delete()

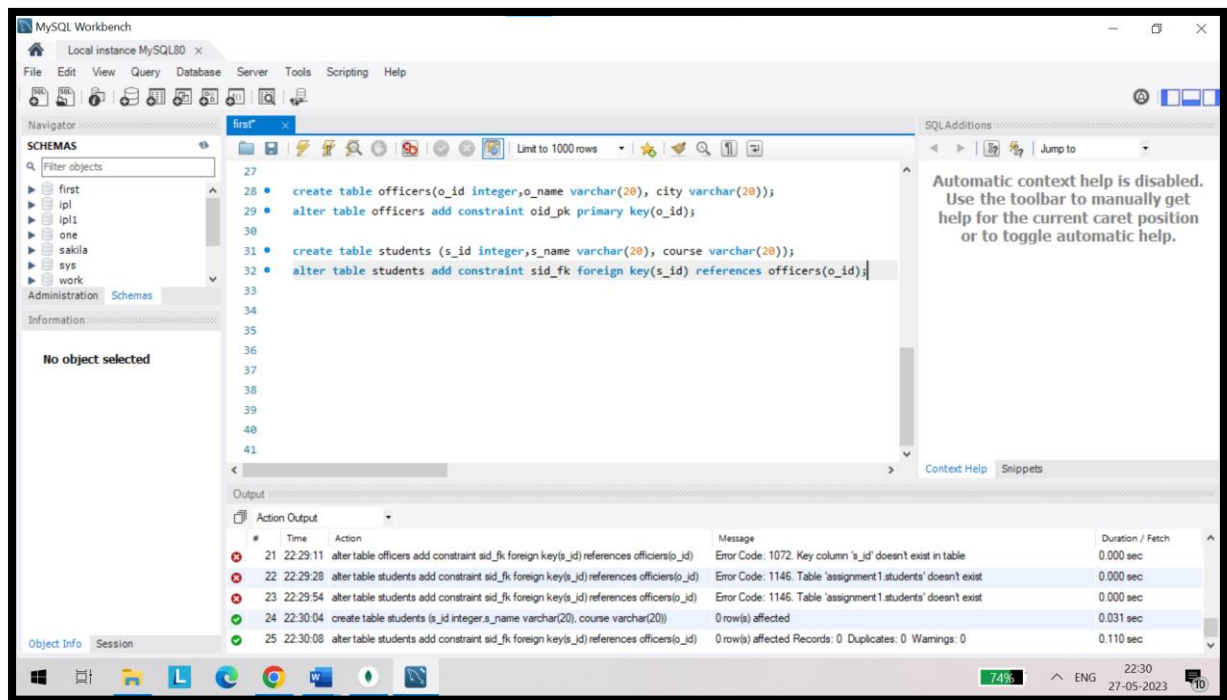
Deleting the employee eid=106 from the employee table,  
delete from employee where eid=106;



## (ii) Create tables and perform joins in MYSQL

List of Tables I created:

- Officers
- students



Officers Table

	o_id	o_name	city
▶	1	shanu	vellore
	2	pawan	chennai
	3	sairam	vellore
	4	krishna	bangalore
•	NULL	NULL	NULL

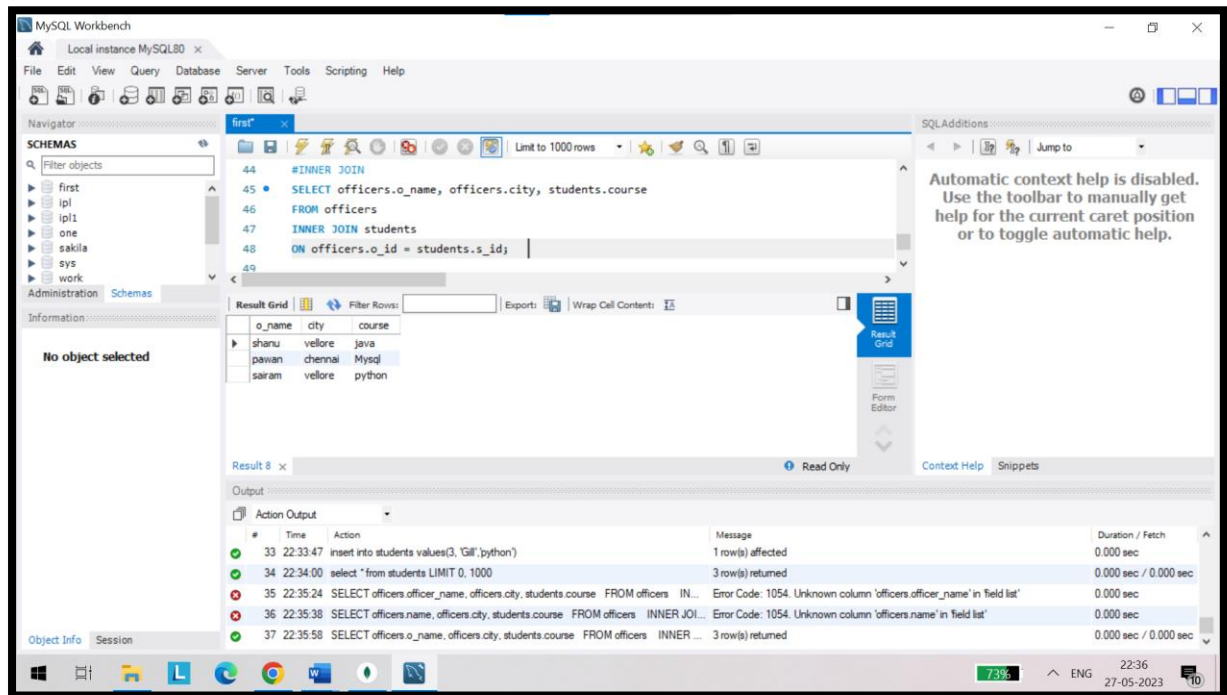
Students table

	s_id	s_name	course
▶	1	rakesh	java
	2	smrithi	Mysql
	3	Gill	python

## INNER JOIN:

```
SELECT officers.o_name, officers.city, students.course FROM officers
```

```
INNER JOIN students ON officers.o_id = students.s_id;
```

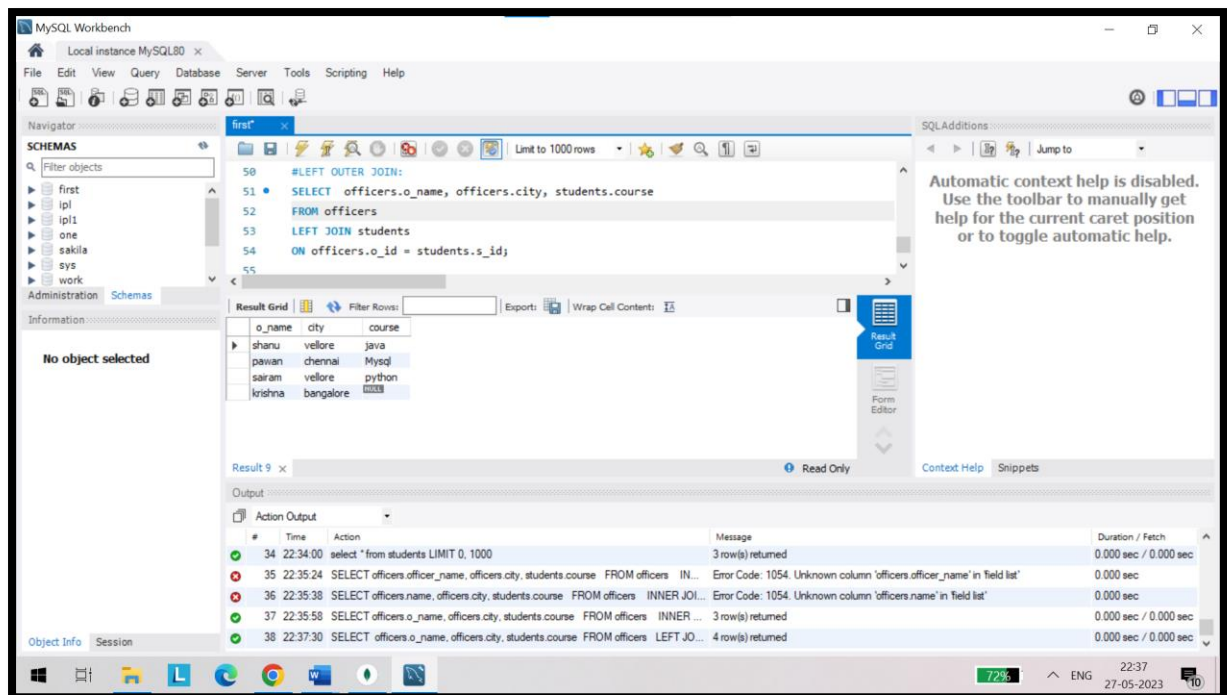


## LEFT JOIN:

```
SELECT officers.o_name, officers.city, students.course FROM officers
```

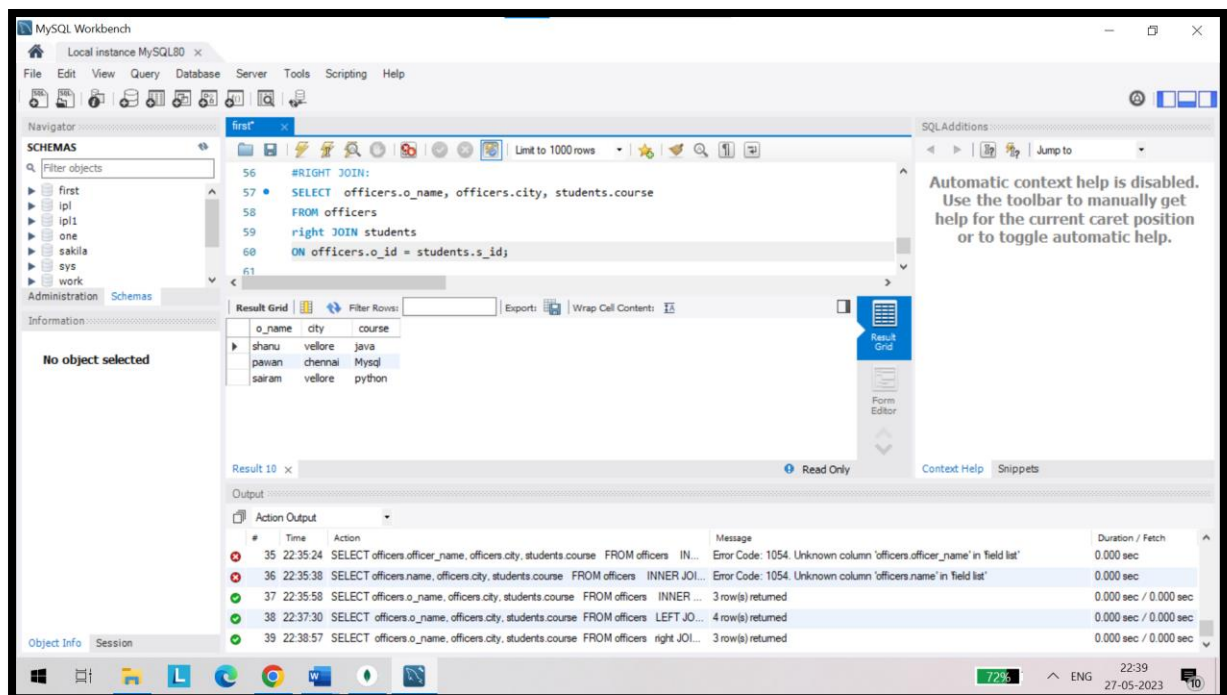
```
left JOIN students ON officers.o_id = students.s_id;
```





## RIGHT JOIN:

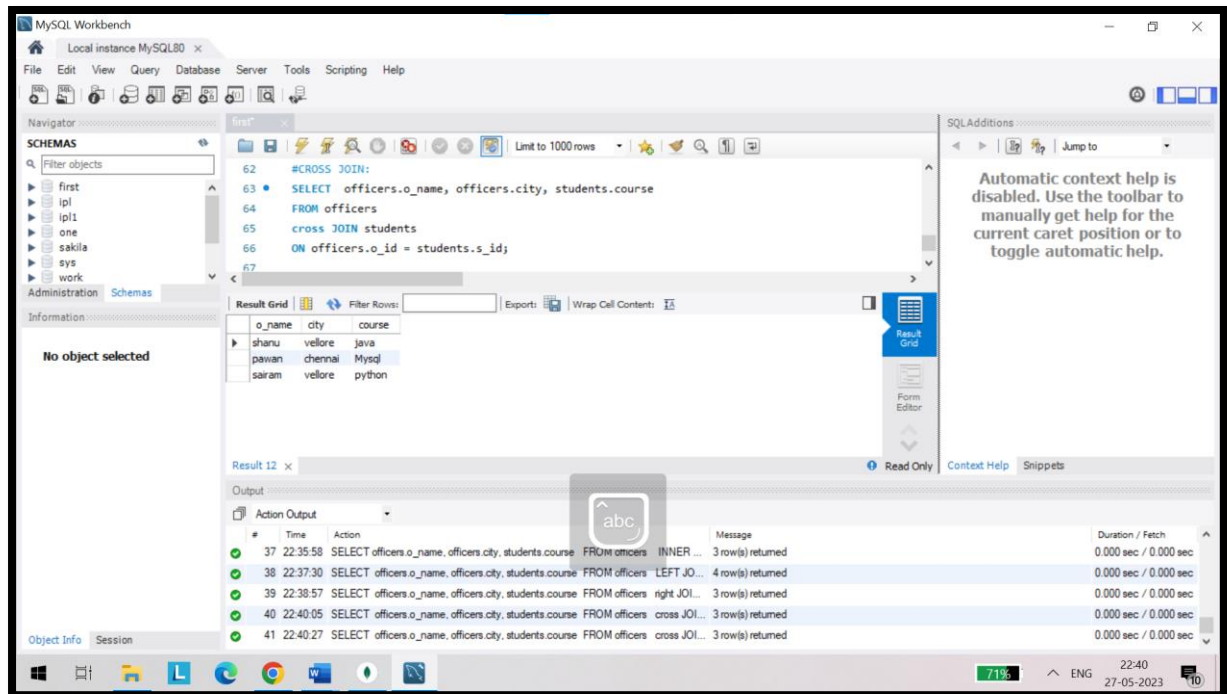
SELECT officers.o\_name, officers.city, students.course FROM officers  
cross JOIN students ON officers.o\_id = students.s\_id;



# CROSS JOIN:

SELECT officers.o\_name, officers.city, students.course

FROM officers cross JOIN students ON officers.o\_id = students.s\_id;



## (iii) create,update,delete commands in MONGO DB

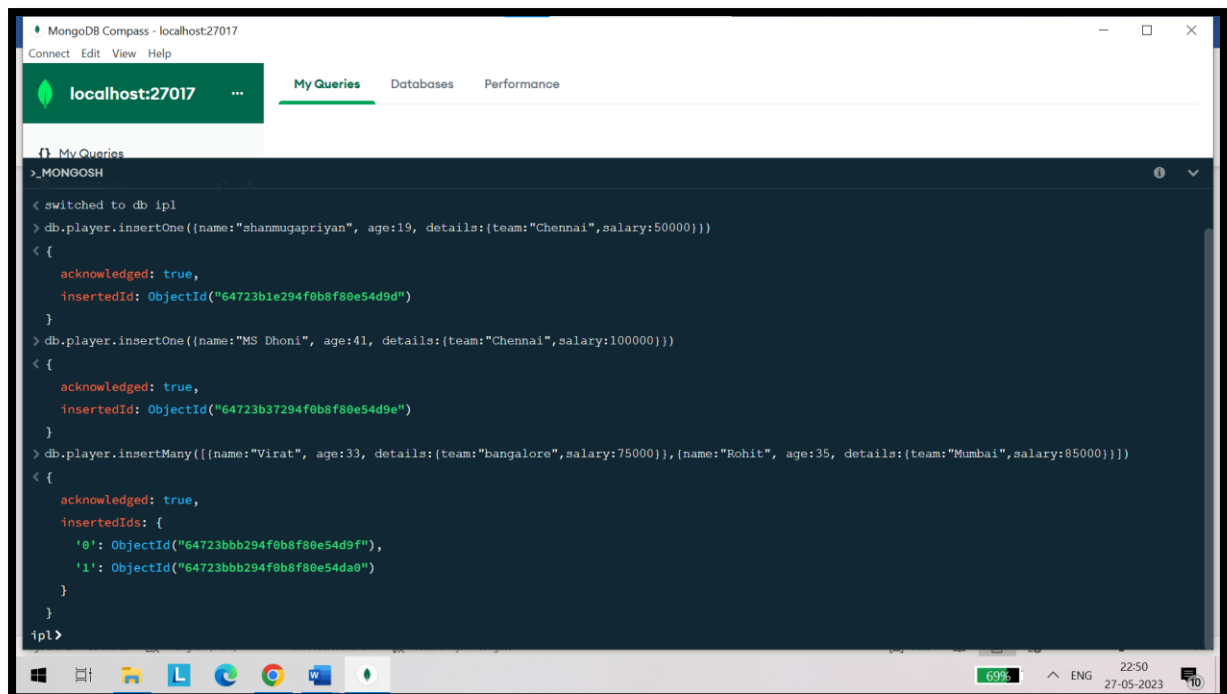
### CREATE()

MongoDB creates collection automatically, when you insert some document.

Inserting the data using INSERTONE() and INSERTMANY()

- db.player.insertOne({name:"shanmugapriyan",age:19,details:{team:"Chennai",salary:50000}})
- db.player.insertOne({name:"MS Dhoni", age:41, details:{team:"Chennai",salary:100000}})
- db.player.insertMany([ {name:"Virat", age:33,details:{team:"bangalore",salary:75000}}, {name:"Rohit", age:35,details:{team:"Mumbai",salary:85000}} ])





MongoDB Compass - localhost:27017

Connect Edit View Help

localhost:27017 ... My Queries Databases Performance

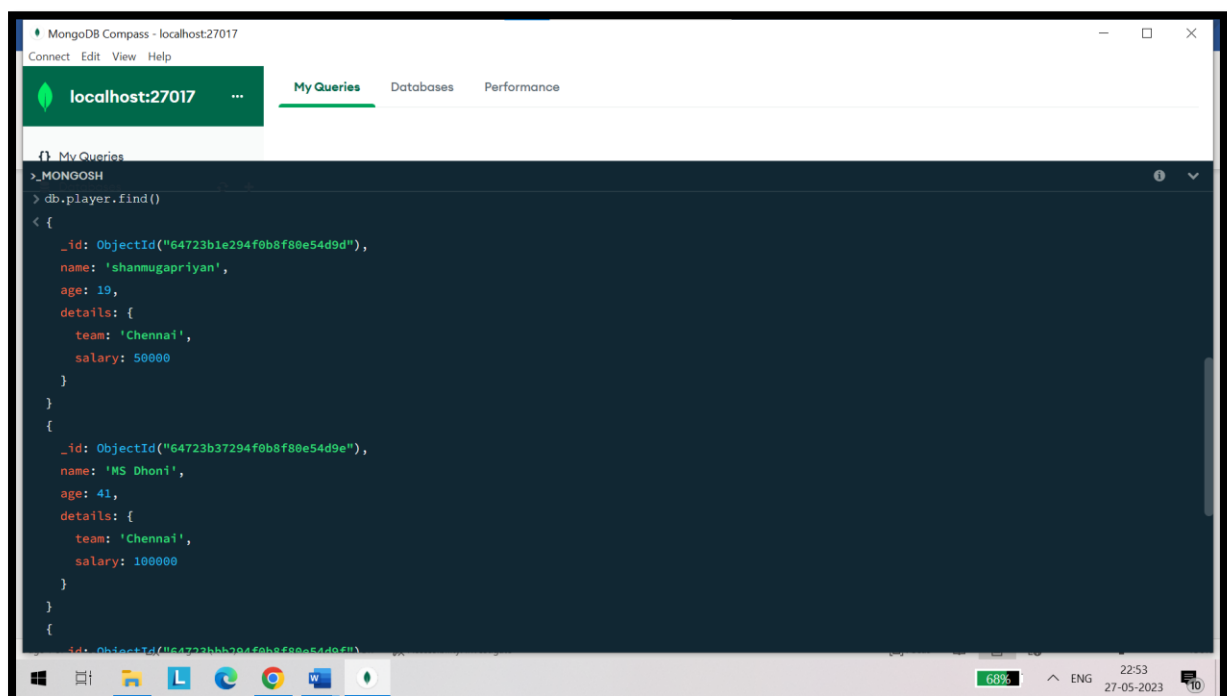
My Queries

```
> MONGOSSH
< switched to db ipl
> db.player.insertOne({name:"shanmugapriyan", age:19, details:{team:"Chennai",salary:50000}})
< {
  acknowledged: true,
  insertedId: ObjectId("64723b1e294f0b8f80e54d9d")
}
> db.player.insertOne({name:"MS Dhoni", age:41, details:{team:"Chennai",salary:100000}})
< {
  acknowledged: true,
  insertedId: ObjectId("64723b37294f0b8f80e54d9e")
}
> db.player.insertMany([ {name:"Virat", age:33, details:{team:"bangalore",salary:75000}}, {name:"Rohit", age:35, details:{team:"Mumbai",salary:85000}} ])
< {
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("64723bbb294f0b8f80e54d9f"),
    '1': ObjectId("64723bbb294f0b8f80e54da0")
  }
}
ipl>
```

69% ENG 22:50 27-05-2023

## SELECT:

db.player.find()



MongoDB Compass - localhost:27017

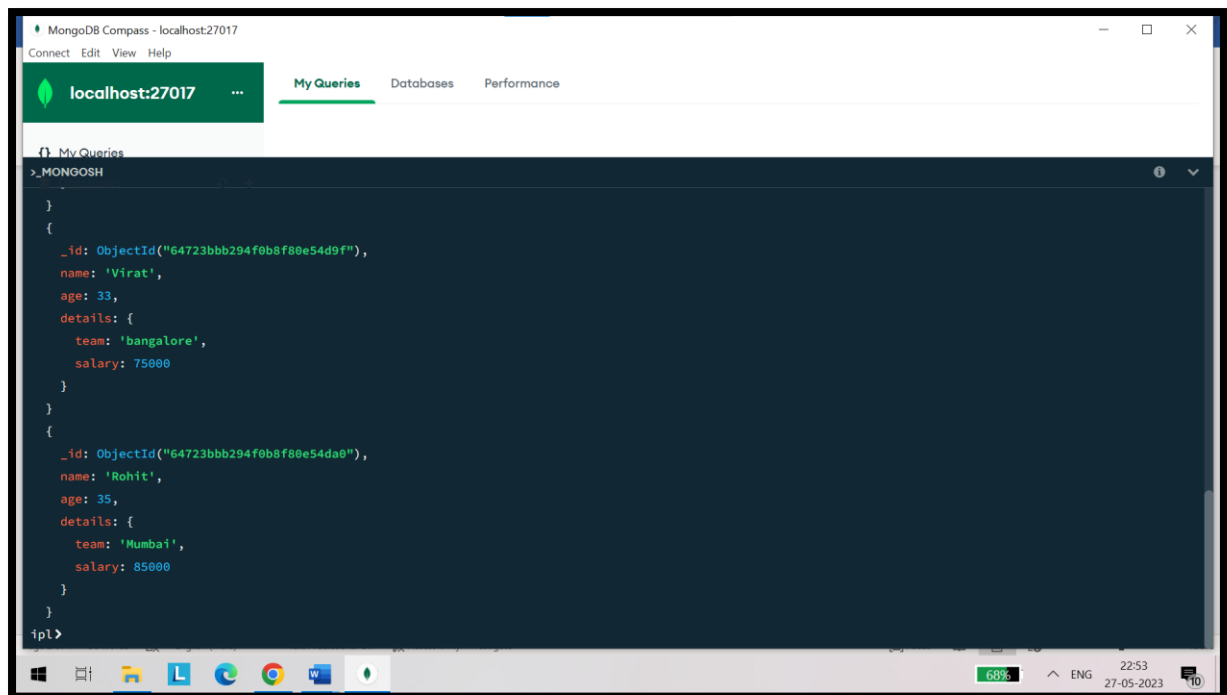
Connect Edit View Help

localhost:27017 ... My Queries Databases Performance

My Queries

```
> MONGOSSH
> db.player.find()
< {
  _id: ObjectId("64723b1e294f0b8f80e54d9d"),
  name: 'shanmugapriyan',
  age: 19,
  details: {
    team: 'Chennai',
    salary: 50000
  }
}
{
  _id: ObjectId("64723b37294f0b8f80e54d9e"),
  name: 'MS Dhoni',
  age: 41,
  details: {
    team: 'Chennai',
    salary: 100000
  }
}
{
  _id: ObjectId("64723bbb294f0b8f80e54d9f"),
  name: 'Virat',
  age: 33,
  details: {
    team: 'bangalore',
    salary: 75000
  }
}
{
  _id: ObjectId("64723bbb294f0b8f80e54da0"),
  name: 'Rohit',
  age: 35,
  details: {
    team: 'Mumbai',
    salary: 85000
  }
}
```

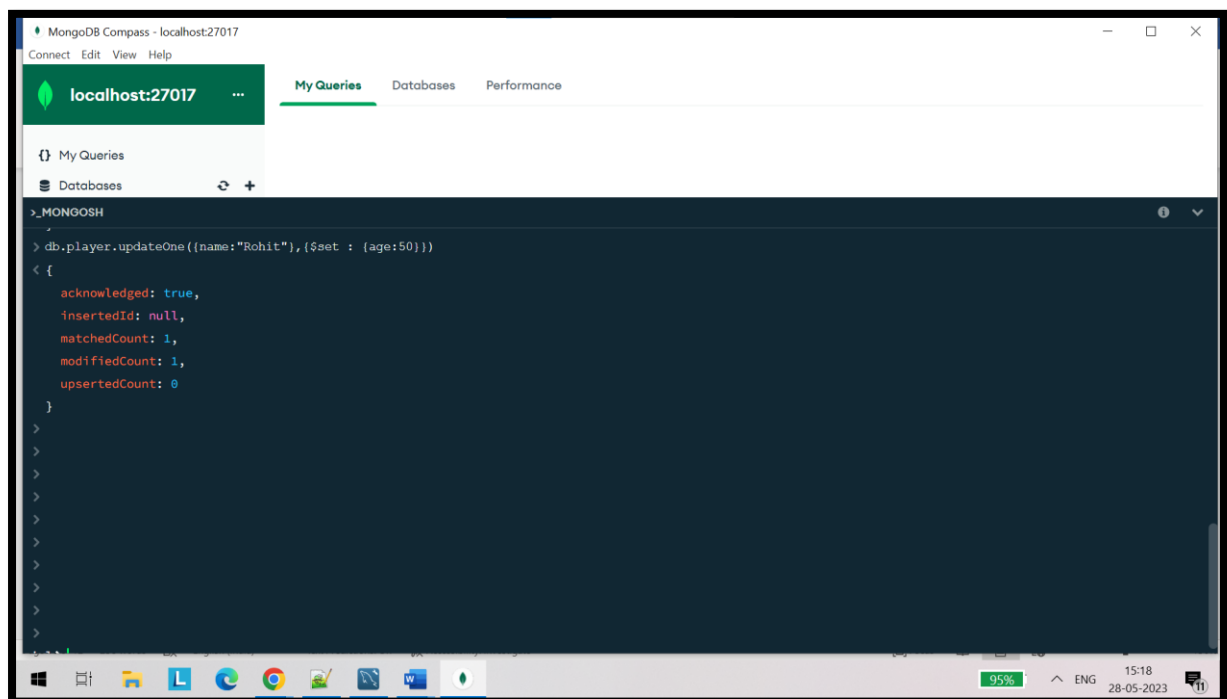
68% ENG 22:53 27-05-2023



## UPDATE():

I am going to update the player (ROHIT) age from 35 to 50.

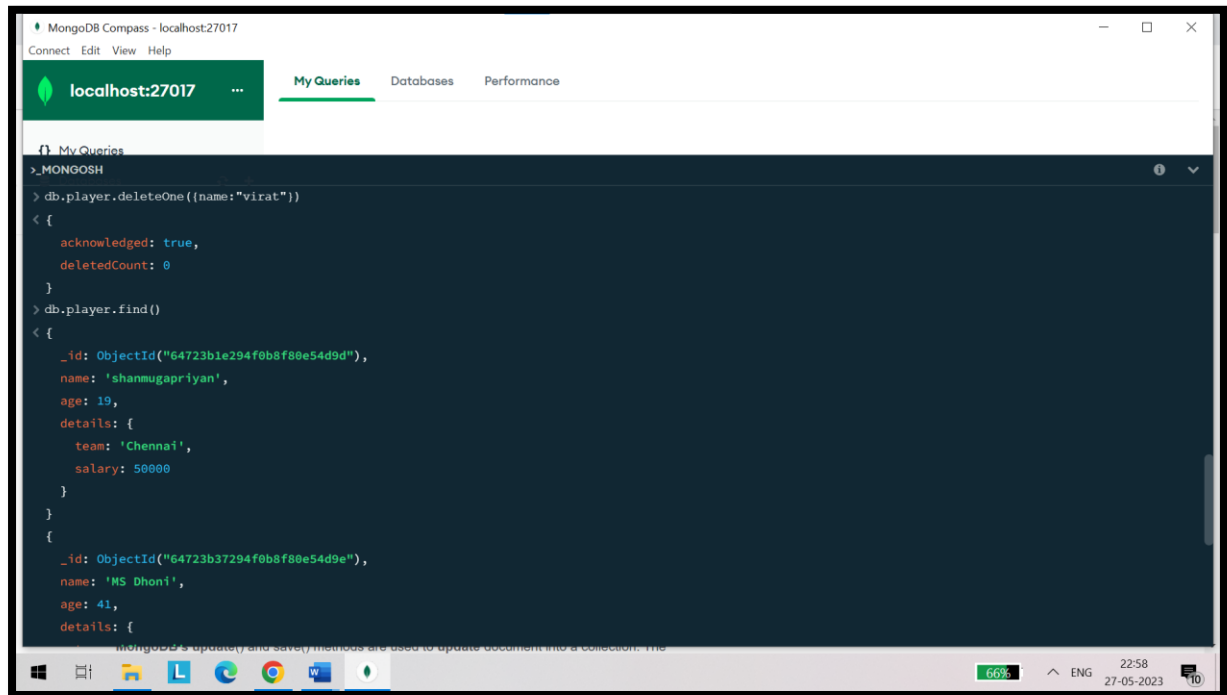
```
db.player.updateOne({name:"Rohit"},{$set : {age:50}})
```



## DELETE():

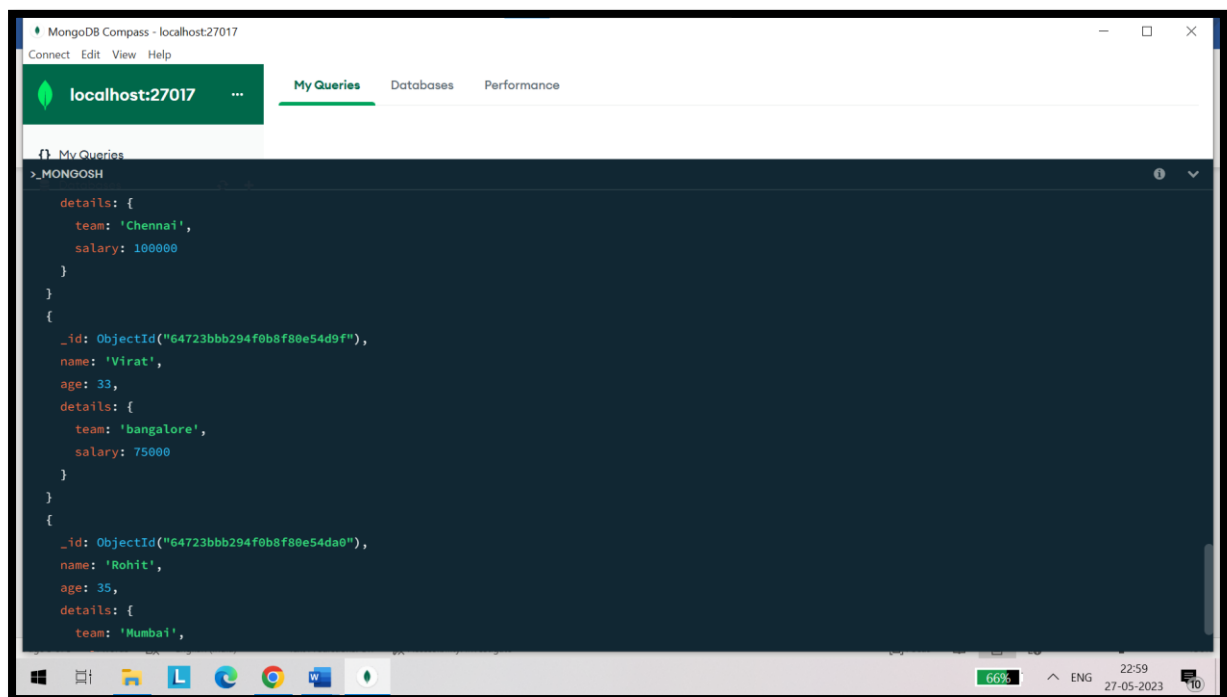
I am going to delete player name="virat"

```
db.player.deleteOne({name:"virat"})
```



The screenshot shows the MongoDB Compass interface with the 'My Queries' tab selected. The command bar contains the query `db.player.deleteOne({name:"virat"})`. The output shows a successful deletion with `acknowledged: true` and `deletedCount: 1`. Below the command bar, the results of `db.player.find()` are displayed, showing two documents: one for 'shammugapriyan' and one for 'MS Dhoni'.

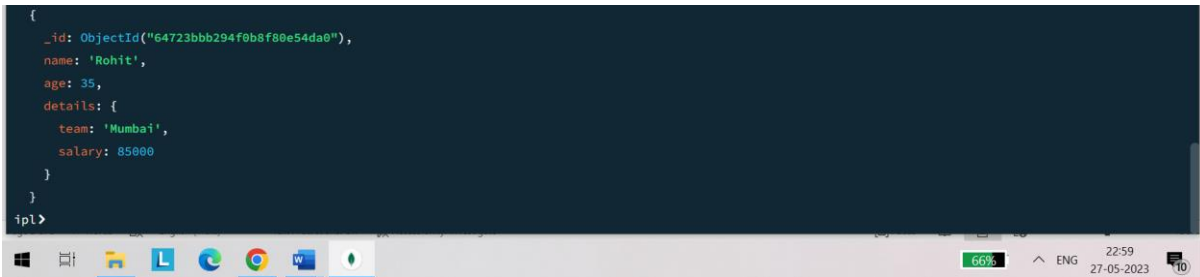
```
> db.player.deleteOne({name:"virat"})
{
  acknowledged: true,
  deletedCount: 1
}
> db.player.find()
{
  _id: ObjectId("64723b1e294f0b8f88e54d9d"),
  name: 'shammugapriyan',
  age: 19,
  details: {
    team: 'Chennai',
    salary: 50000
  }
}
{
  _id: ObjectId("64723b37294f0b8f88e54d9e"),
  name: 'MS Dhoni',
  age: 41,
  details: {
    team: 'Chennai',
    salary: 100000
  }
}
```



The screenshot shows the MongoDB Compass interface with the 'My Queries' tab selected. The command bar contains the query `db.player.deleteOne({name:"virat"})`. The output shows a successful deletion with `acknowledged: true` and `deletedCount: 1`. Below the command bar, the results of `db.player.find()` are displayed, showing two documents: one for 'Virat' and one for 'Rohit'.

```
> db.player.deleteOne({name:"virat"})
{
  acknowledged: true,
  deletedCount: 1
}
> db.player.find()
{
  _id: ObjectId("64723bb294f0b8f88e54d9f"),
  name: 'Virat',
  age: 33,
  details: {
    team: 'bangalore',
    salary: 75000
  }
}
{
  _id: ObjectId("64723bb294f0b8f88e54da0"),
  name: 'Rohit',
  age: 35,
  details: {
    team: 'Mumbai',
    salary: 100000
  }
}
```

```
{
  _id: ObjectId("64723bbb294f0b8f80e54da0"),
  name: 'Rohit',
  age: 35,
  details: {
    team: 'Mumbai',
    salary: 85000
  }
}
ipl>
```

A screenshot of a Windows 10 desktop. The main focus is a dark-themed terminal window with a light blue background. It displays a JSON object representing a player named Rohit from the Mumbai team, with an age of 35 and a salary of 85000. The prompt 'ipl>' is visible at the bottom of the terminal. Below the terminal is the Windows taskbar, which includes icons for the Start menu, File Explorer, Microsoft Edge, Google Chrome, and other applications. The system tray on the right shows a 66% battery level, the language set to English, the time 22:59, and the date 27-05-2023.