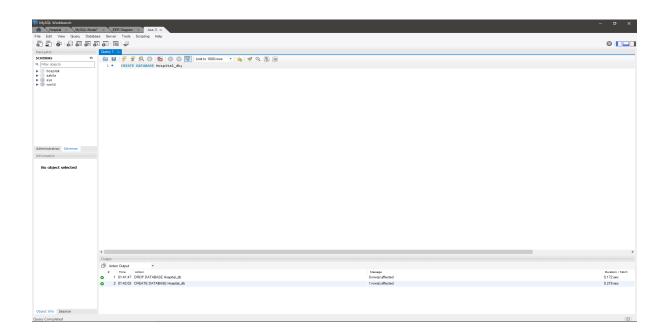
## DBMS ASSIGNMENT-3

## HOSPITAL DATABASE

- 1. Show how to Create and Drop Database.
  - Create Table

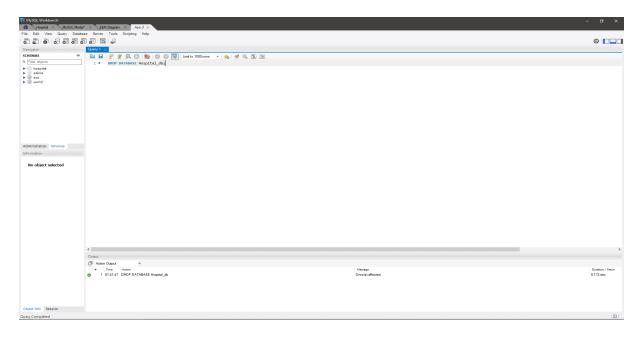
 $\label{eq:Query:create} \mbox{Query: create database hospital\_db;}$ 



• Drop Database

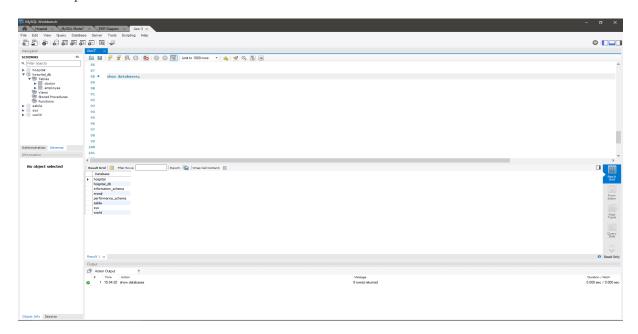
 $Query: drop\ database\ hospital\_db;$ 

Output:

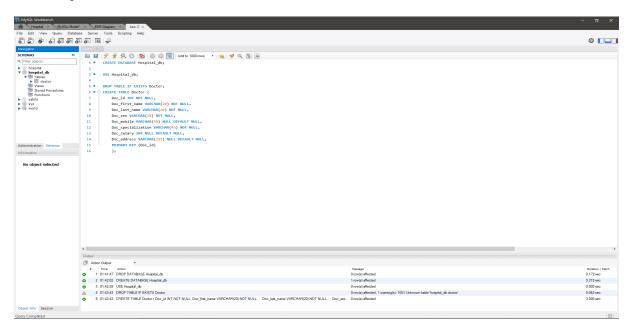


2. Show all the Databases in the system.

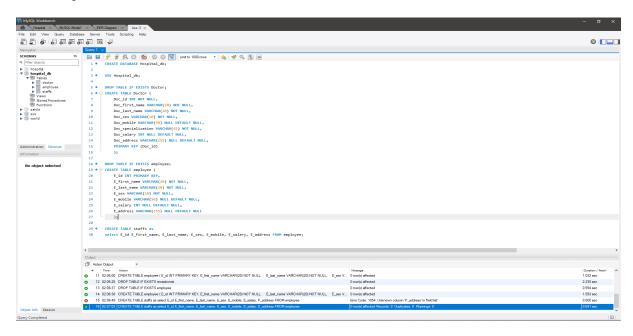
Query : show databases;



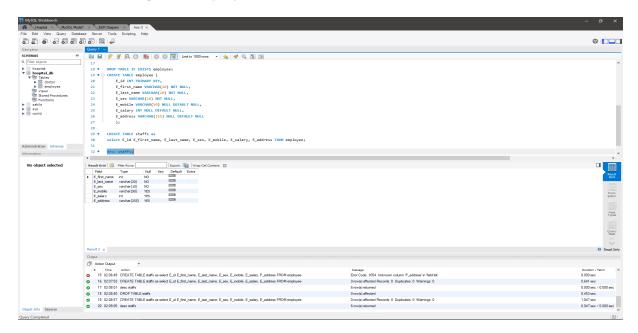
```
3. Create Table for your Database.
Query:
CREATE TABLE Doctor (
Doc_id INT NOT NULL,
Doc_first_name VARCHAR(20) NOT NULL,
Doc_last_name VARCHAR(20) NOT NULL,
Doc_sex VARCHAR(10) NOT NULL,
Doc_mobile VARCHAR(50) NULL DEFAULT NULL,
Doc_specialization VARCHAR(45) NOT NULL,
Doc_salary INT NULL DEFAULT NULL,
Doc_address VARCHAR(255) NULL DEFAULT NULL,
PRIMARY KEY (Doc_id)
);
CREATE TABLE employee (
E_id INT PRIMARY KEY,
E_first_name VARCHAR(20) NOT NULL,
E_last_name VARCHAR(20) NOT NULL,
E_sex VARCHAR(10) NOT NULL,
E_mobile VARCHAR(50) NULL DEFAULT NULL,
E_salary INT NULL DEFAULT NULL,
E_address VARCHAR(255) NULL DEFAULT NULL
);
```



4. Show how select can be used for Creating table Query: CREATE TABLE staffs as select E\_id E\_first\_name, E\_last\_name, E\_sex, E\_mobile, E\_salary, E\_address FROM employee; Output:



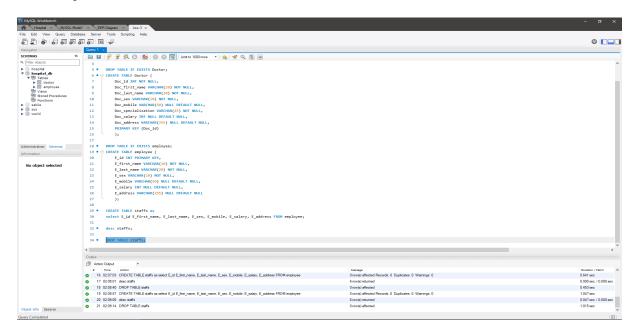
Verification using describe query:



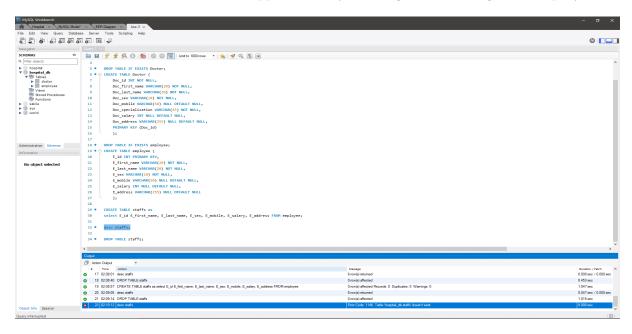
5. Drop table.

Query: DROP TABLE staffs;

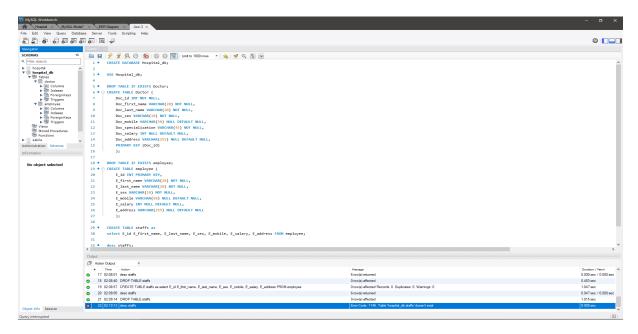
Output:



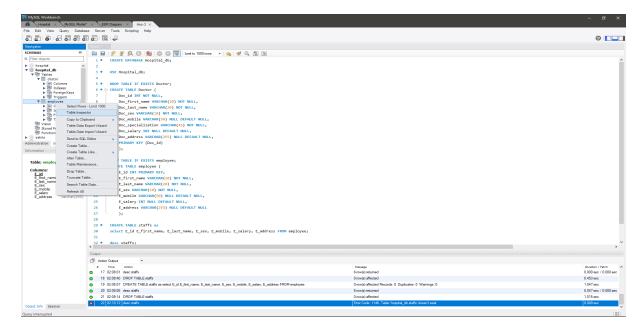
Verification whether the table is dropped or not by accessing the table using describe query:



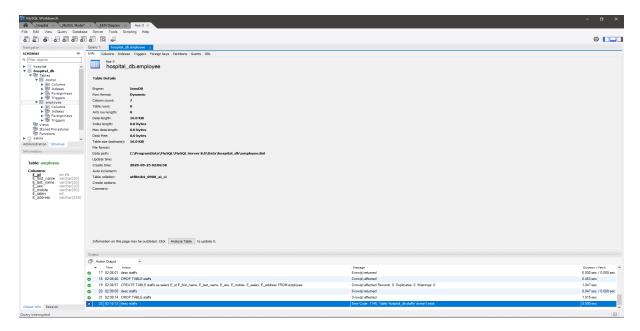
- 6. Show how to check the schema of the tables.
  - Hover over the table name in the left side schemas panel of Workbench



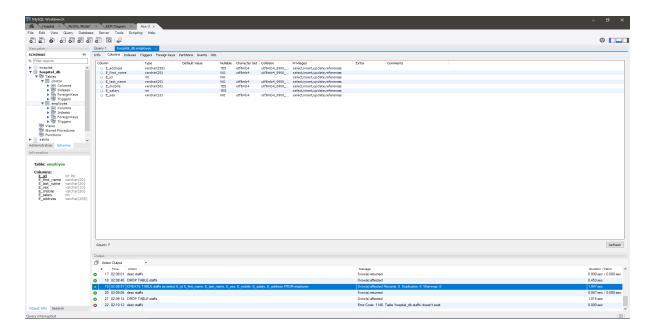
Right click on the table required and click on Table Inspector.



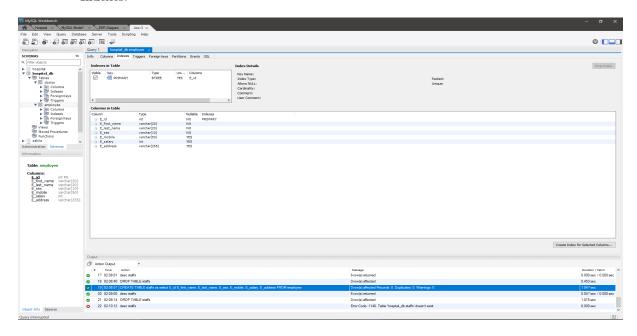
A new tab opens by the name hospital\_db.employee



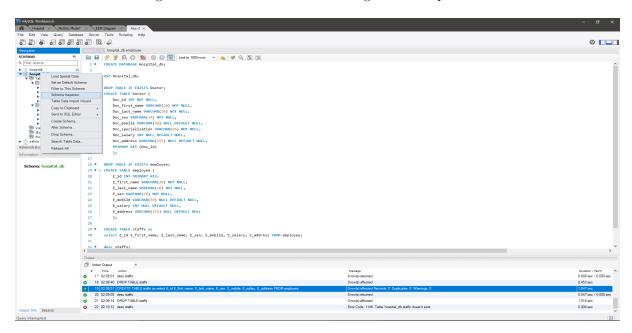
Now you can click on whatever you want to get information about the table. Like columns,indexes etc. Columns:

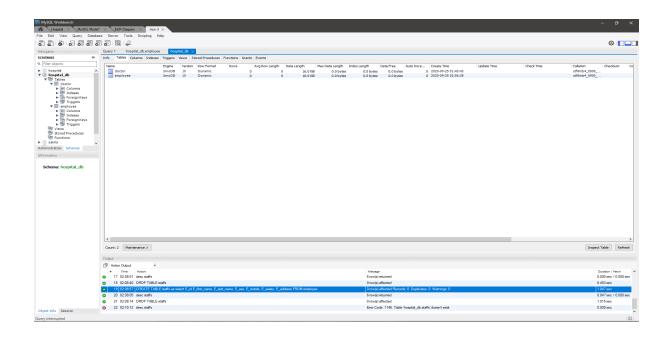


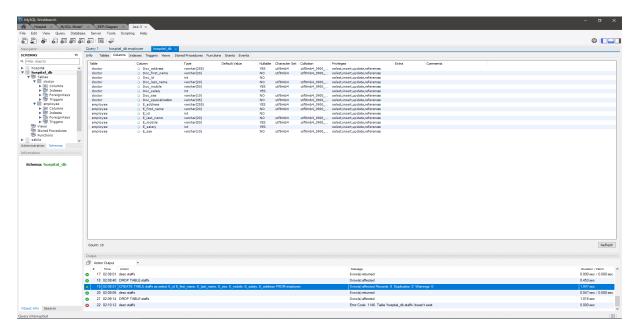
## Indexes:



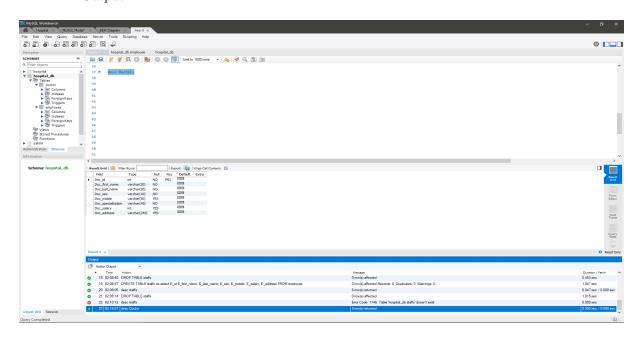
You can also get the schema of the database using schema inspector like this :



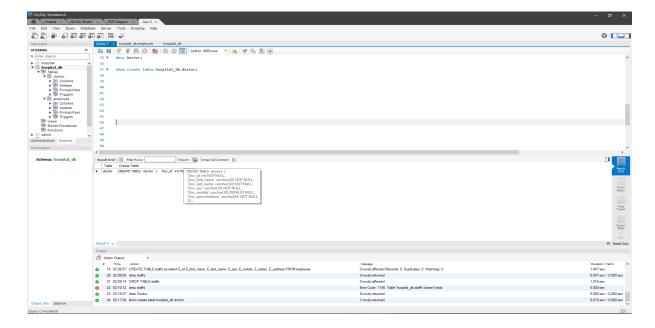




• Using describe query : Query : desc employee; Output :



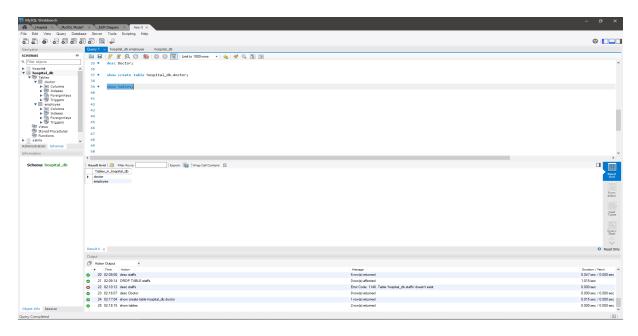
• Using show query : Query : show create table hospital\_db.employee; Output:



7. Show all the tables from the database.

Query: show tables;

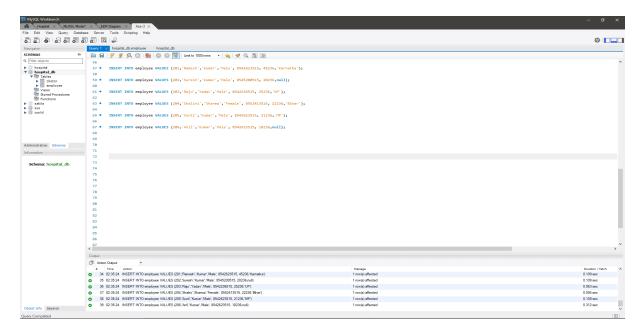
Output:



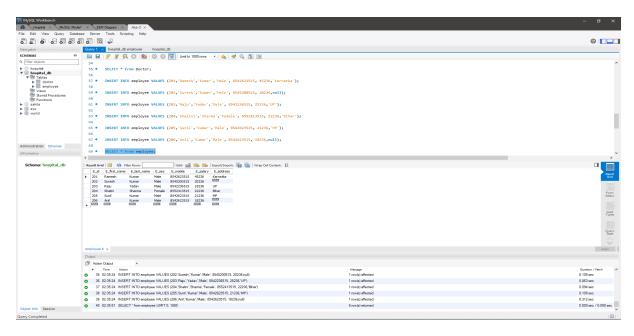
8. Insert 5 to 10 rows in each of the tables of your Database.

Inserting data into employee table :

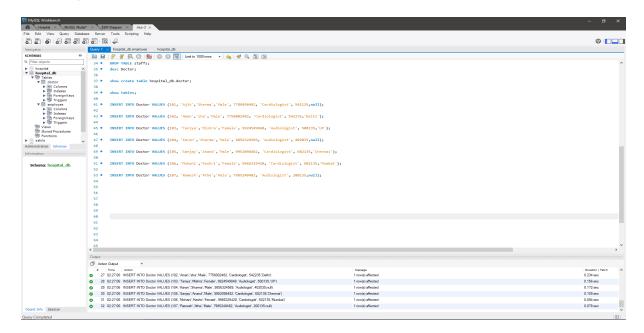
Query : INSERT INTO employee VALUES (201, 'Ramesh', 'Kumar', 'Male', 8542623515, 45236, 'Karnatka');



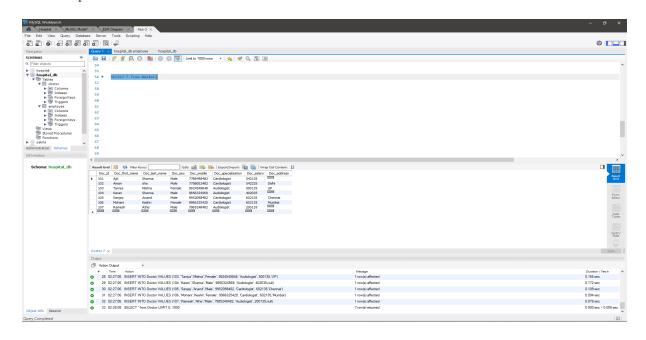
Verifying whether data has been inserted properly or not by fetching the data using select query :



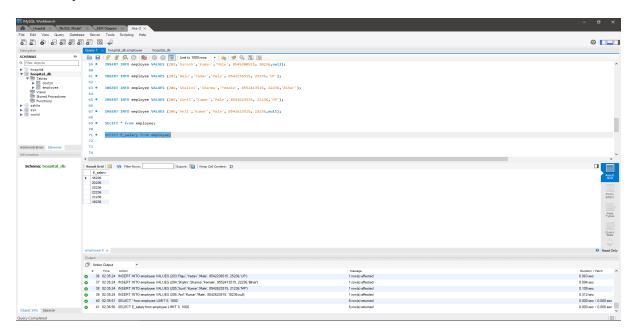
Query : INSERT INTO Doctor VALUES (101, 'Ajit', 'Sharma', 'Male', 7788498482, 'Cardiologist', 542135, null); Output:



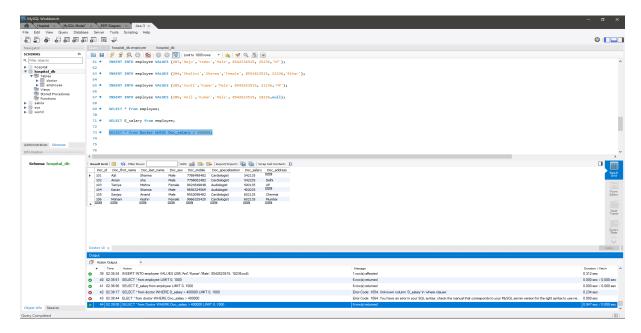
9. Show usage of Simple Select Statement: Query1 : select \* from Doctor; Output:



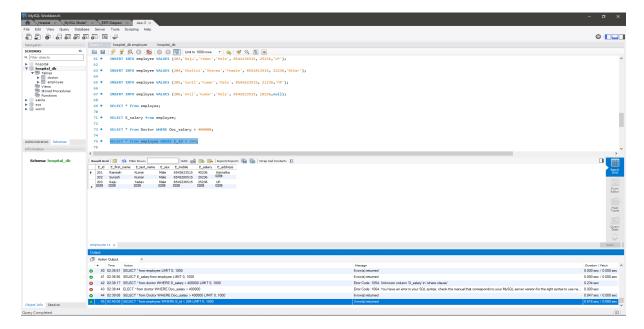
Query 2 : SELECT E\_salary from employee; Output:



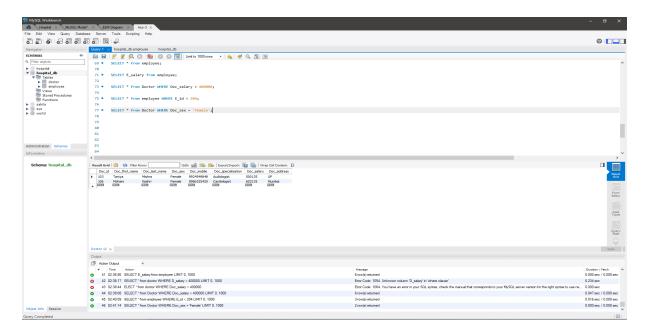
- 10. Select Statement using Relational and Logical operators.
  - Using Relational Operators :
    - (a) ">" operator:
       Query: SELECT \* from Doctor WHERE Doc\_salary > 400000;



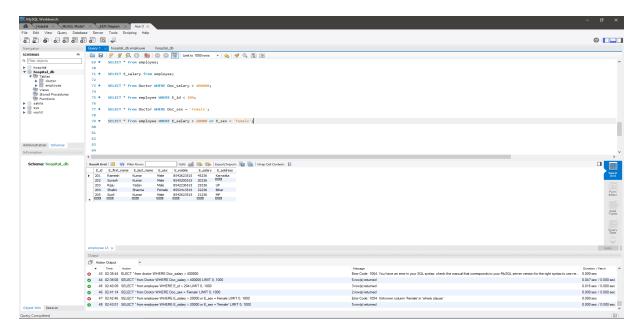
(b) "<" operator: Query : SELECT \* from employee WHERE E\_id < 204;



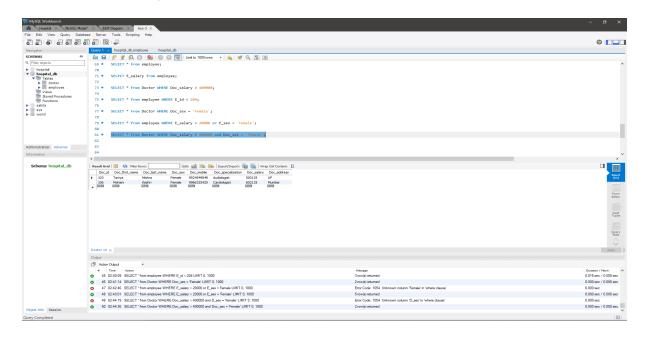
(c) "=" operator: Query : SELECT \* from Doctor WHERE Doc\_sex = 'Female';



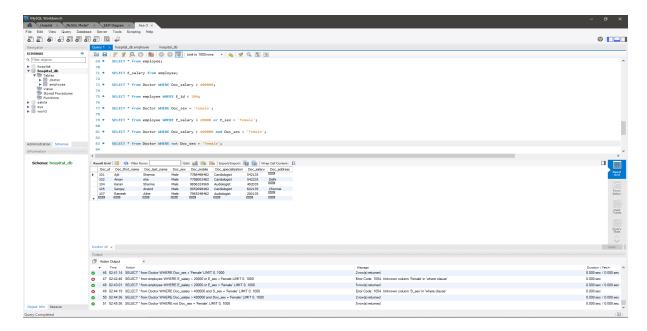
(d) "OR" operator: Query : SELECT \* from employee WHERE E\_salary > 20000 or E\_sex = 'Female';



(e) "AND" operator: Query : SELECT \* from Doctor WHERE Doc\_salary > 400000 and Doc\_sex = 'Female';



(f) "NOT" operator: Query: SELECT \* from Doctor WHERE not Doc\_sex = 'Female';



11. One simple Subquery using select.

Query : select Doc\_first\_name, Doc\_salary from Doctor where Doc\_salary > (select Doc\_salary from Doctor where Doc\_id = 103);

