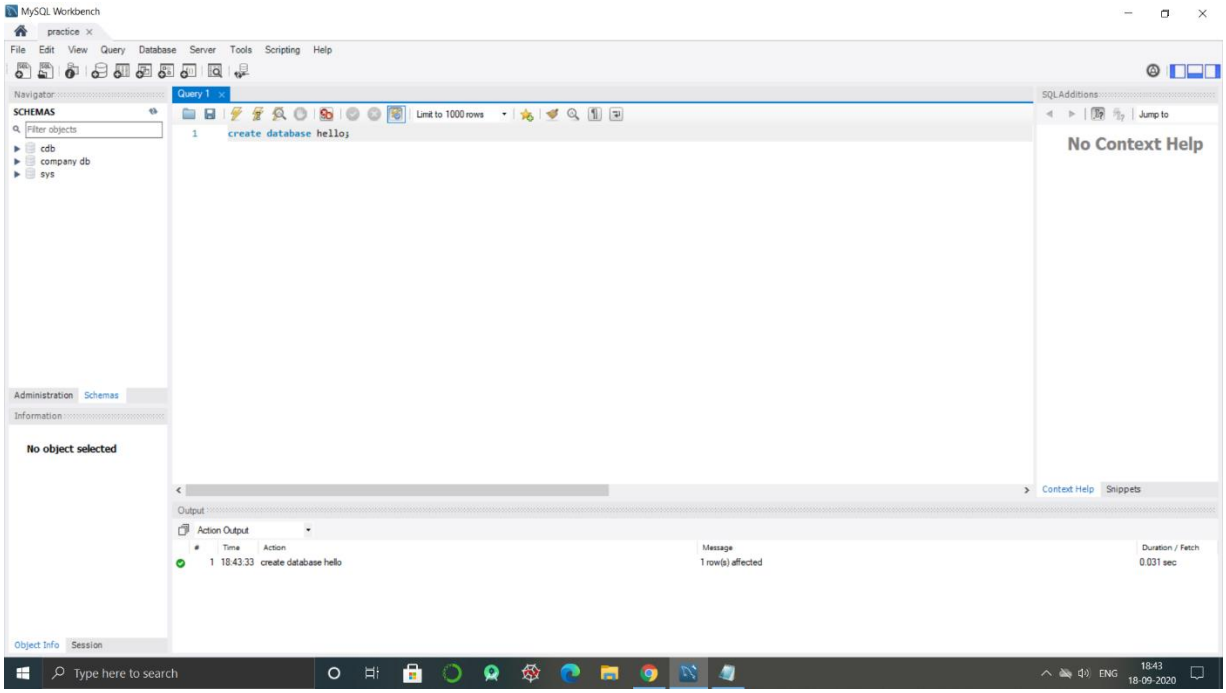
DBMS Assignment – 3

1. **Show how to Create and Drop Database.**

   Query : create database hello;

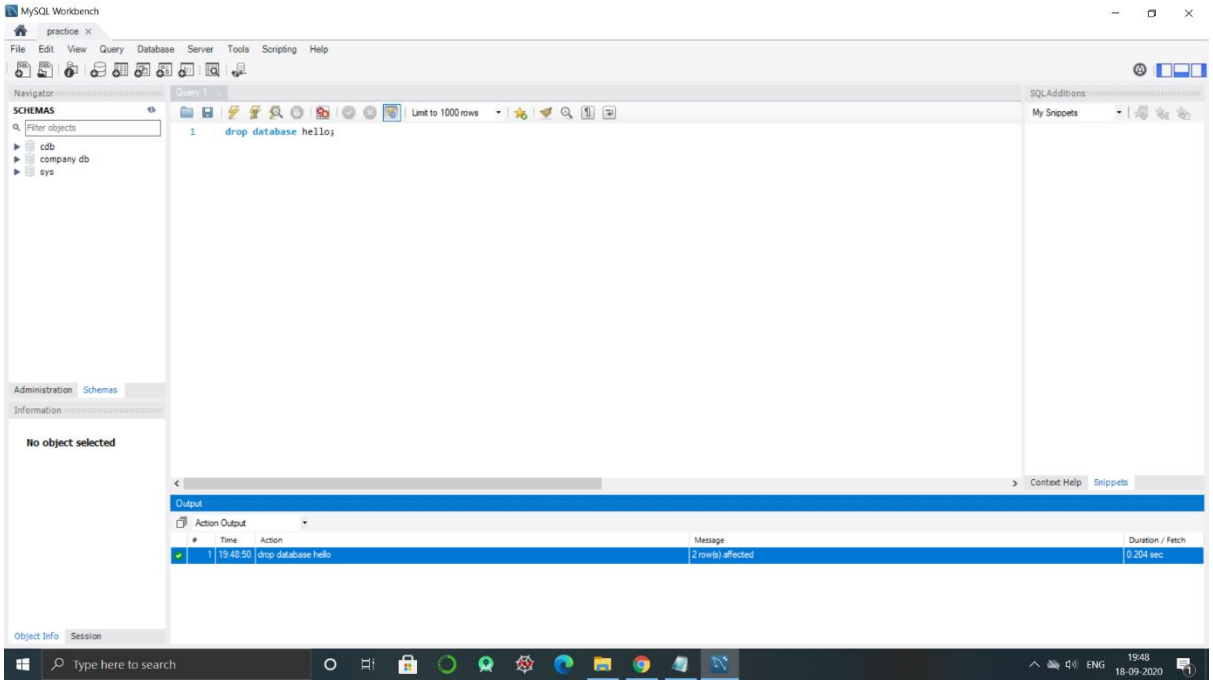
   Output :



Drop Database :-

Query : drop database hello;

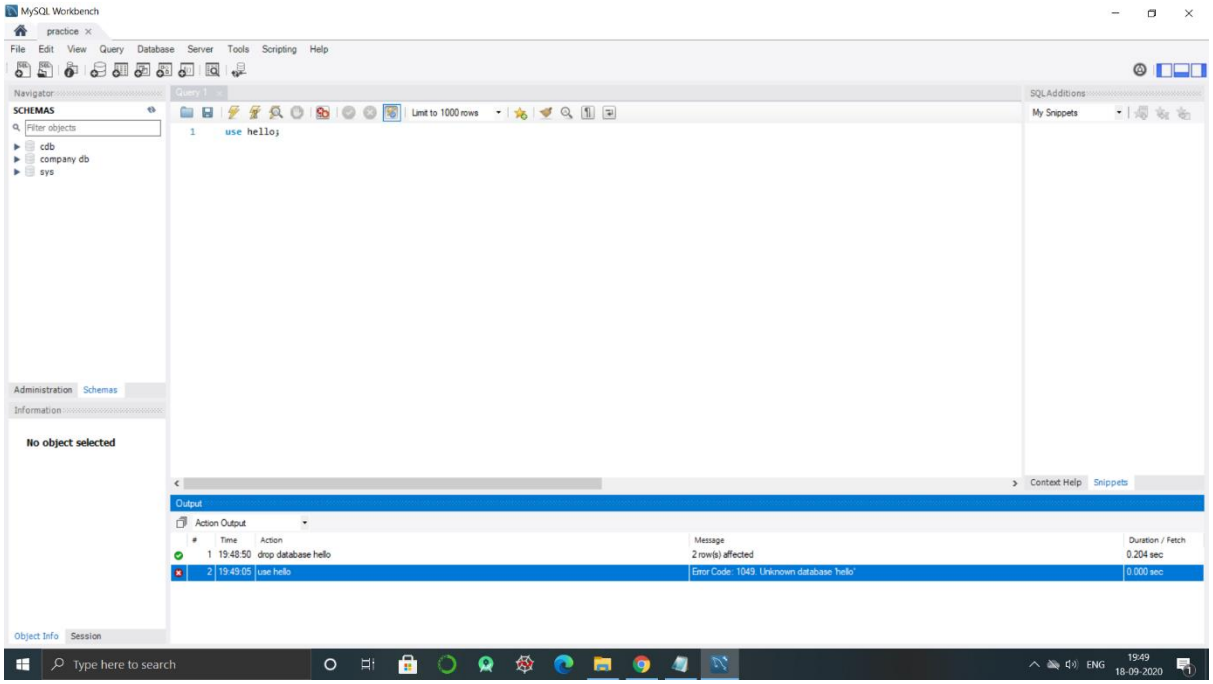
Output :



Try to use a database after it is deleted :

Query : use hello;

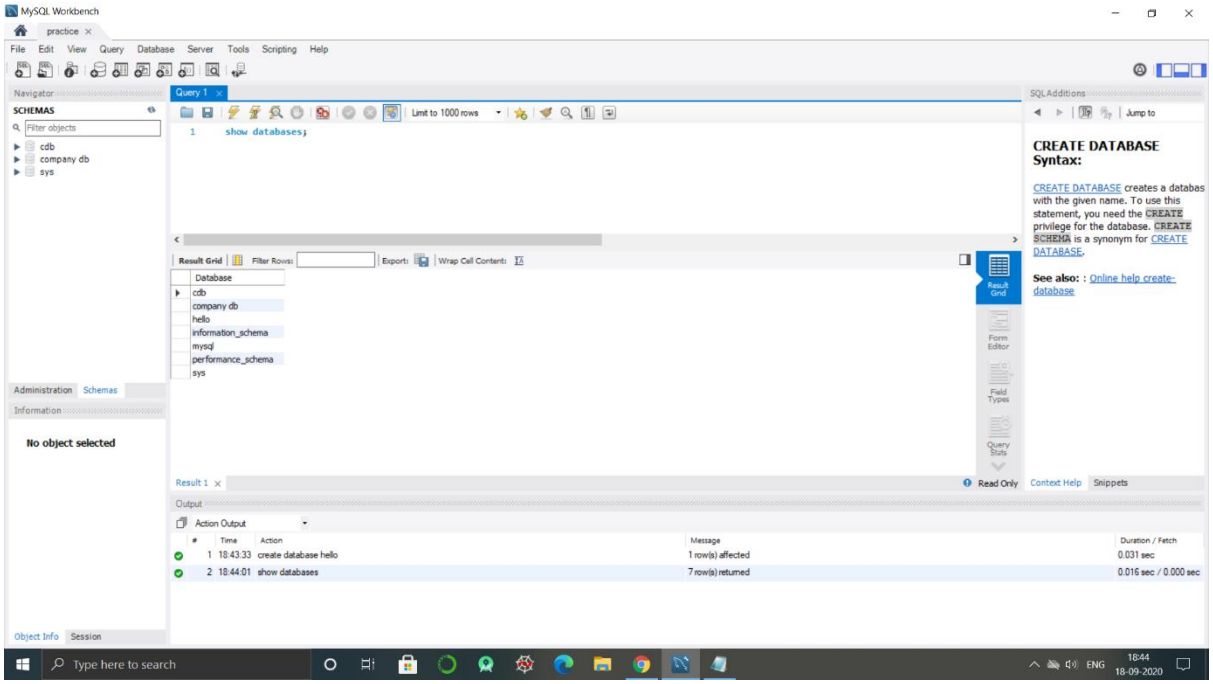
Output :



2. **Show all the Databases in the system.**

Query : show databases;

Output :



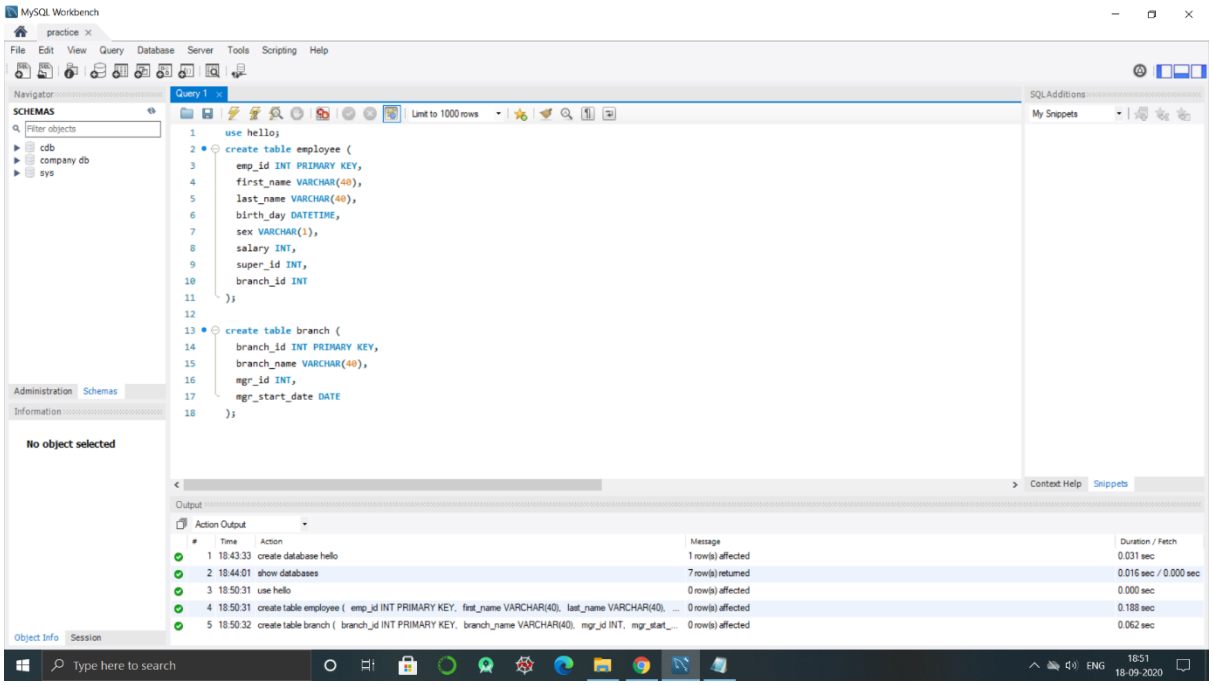
3. Create Table for your Database.

Query :

```
use hello;
create table employee (
 emp_id INT PRIMARY KEY,
 first_name VARCHAR(40),
 last_name VARCHAR(40),
 birth_day DATETIME,
 sex VARCHAR(1),
 salary INT,
 super_id INT,
 branch_id INT
);

create table branch (
 branch_id INT PRIMARY KEY,
 branch_name VARCHAR(40),
 mgr_id INT,
 mgr_start_date DATE
);
```

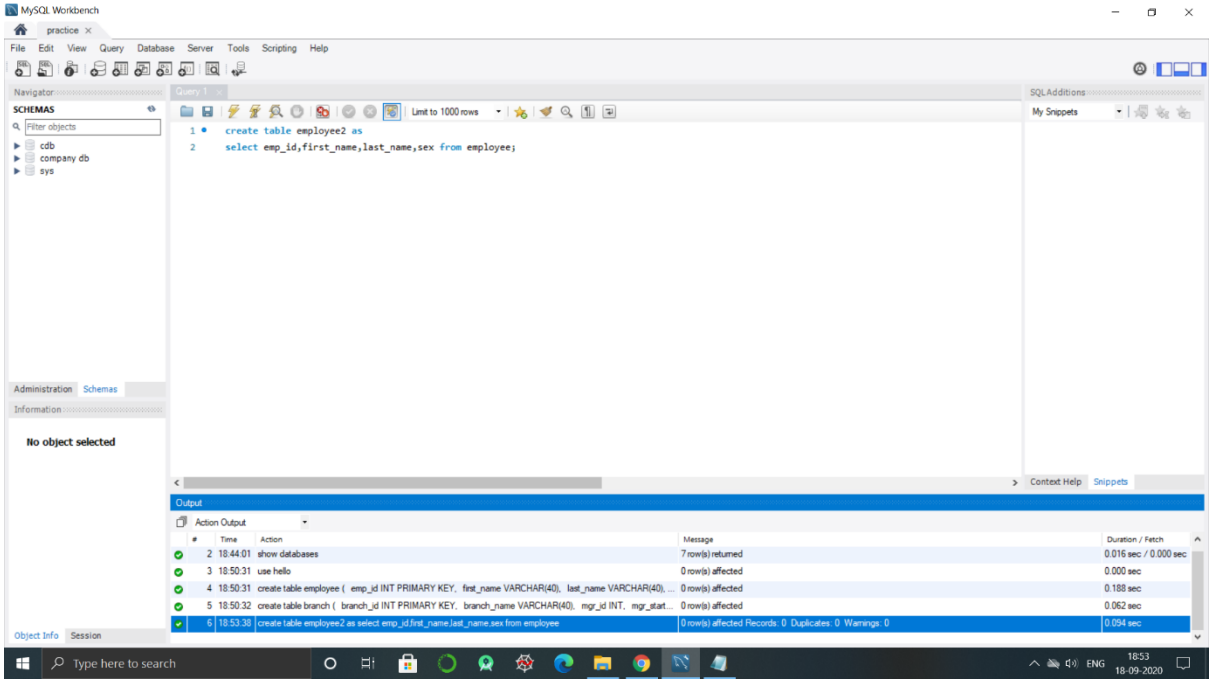
Output :



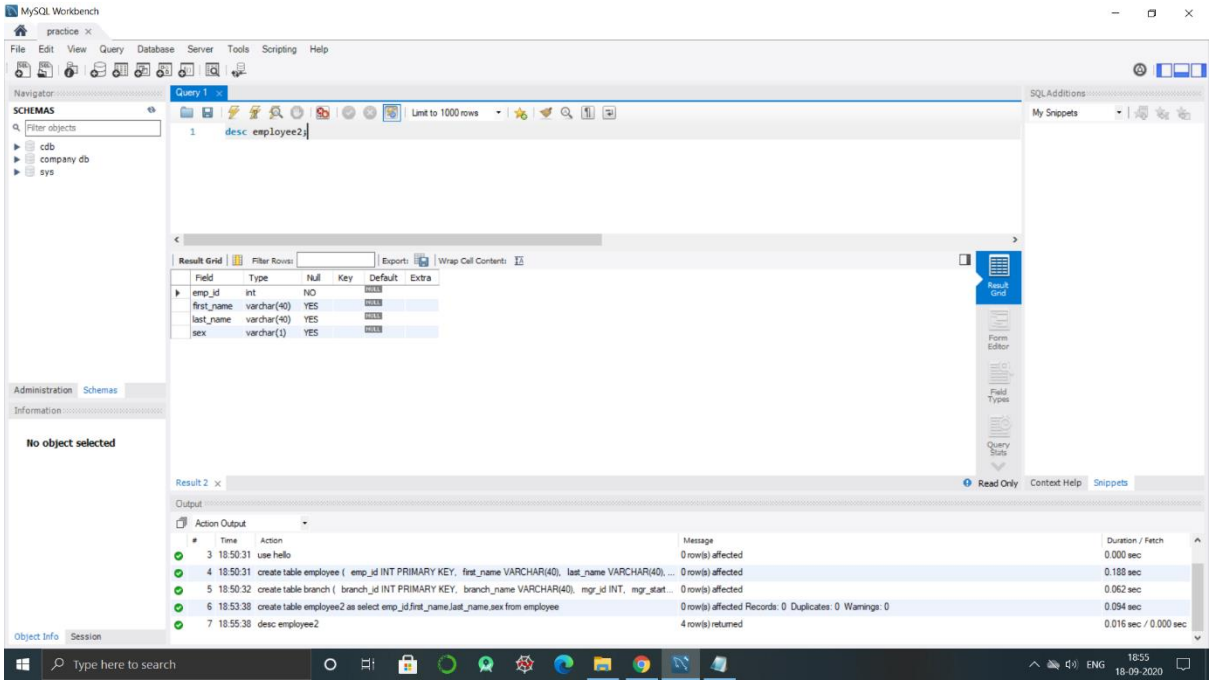
4. **Show how select can be used for Creating table**

Query : create table employee2 as select emp_id,first_name,last_name,sex from employee;

Output :



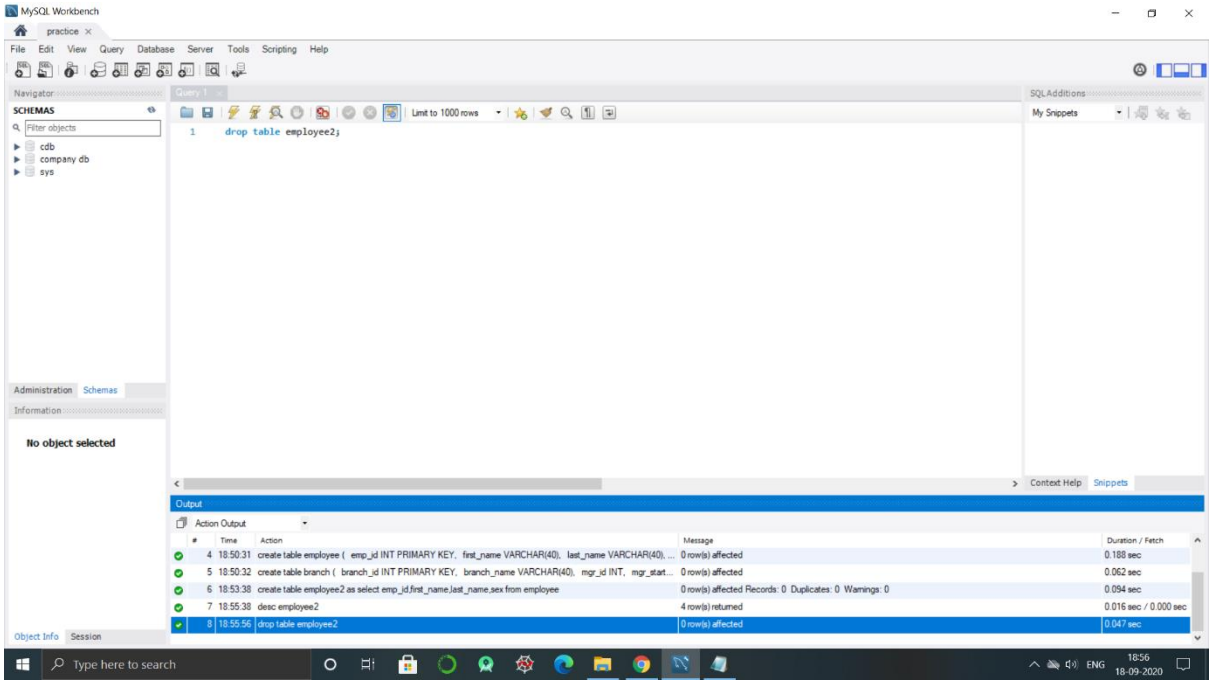
Verification using describe query:



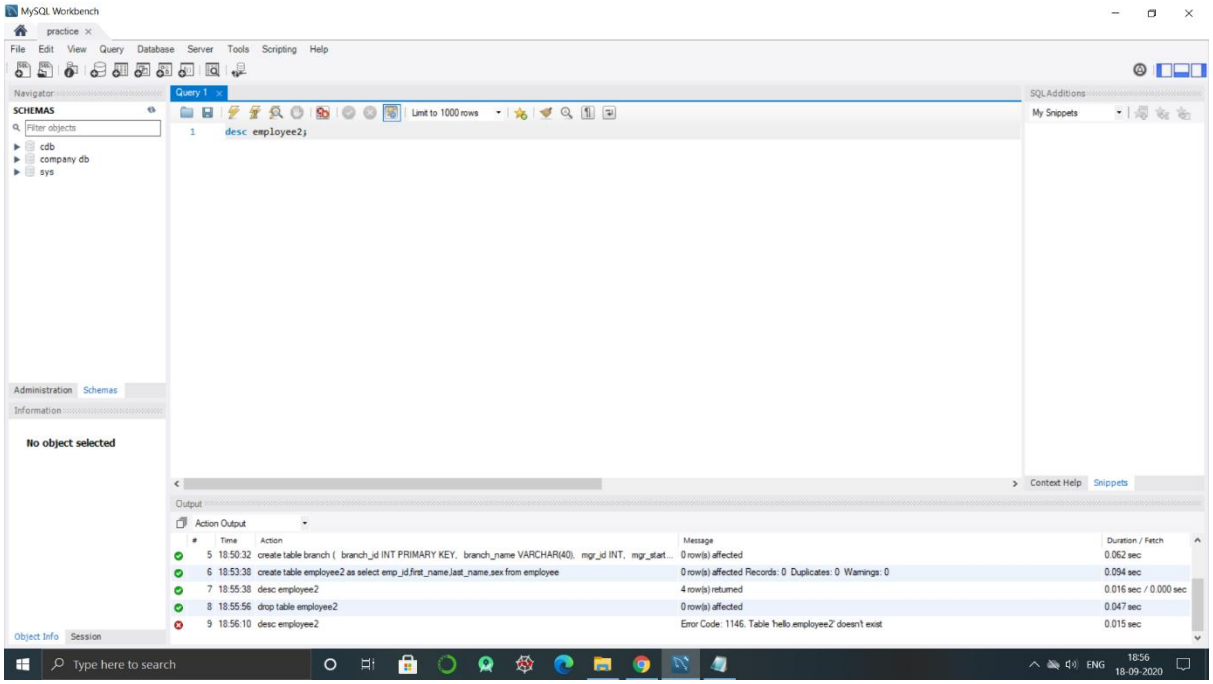
5. **Drop table.**

Query : drop table employee2;

Output :

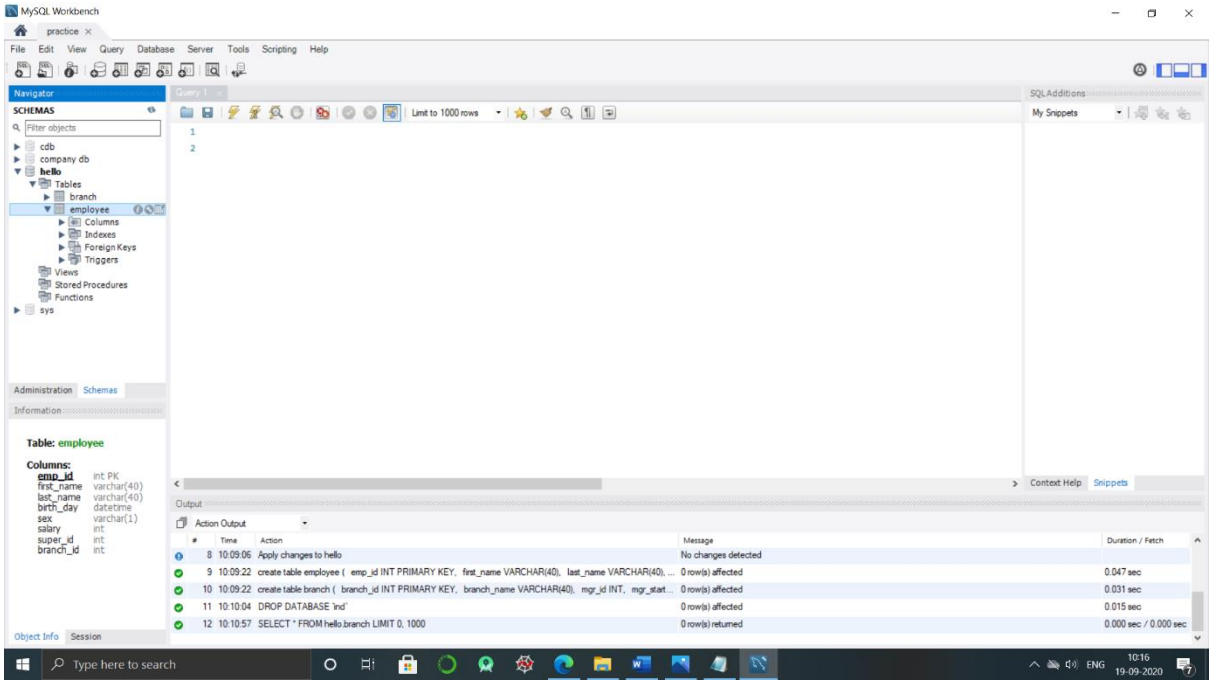


Verification whether the table is dropped or not by accessing the table using describe query :

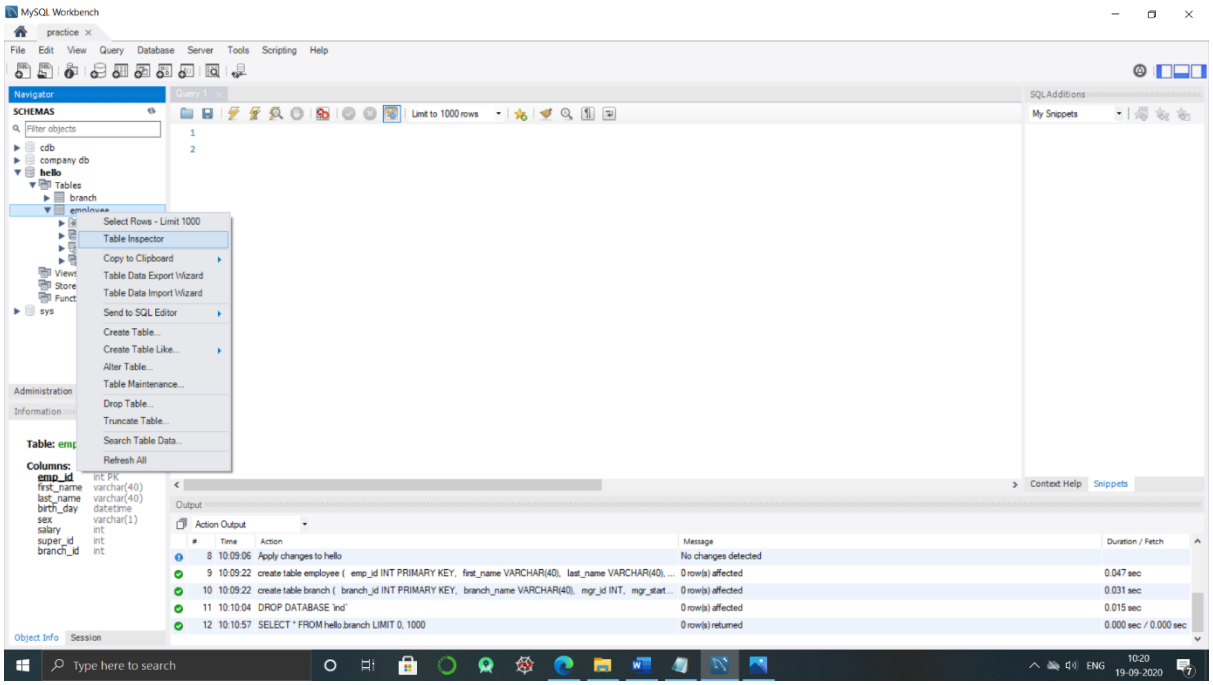


6. Show how to check the schema of the tables.

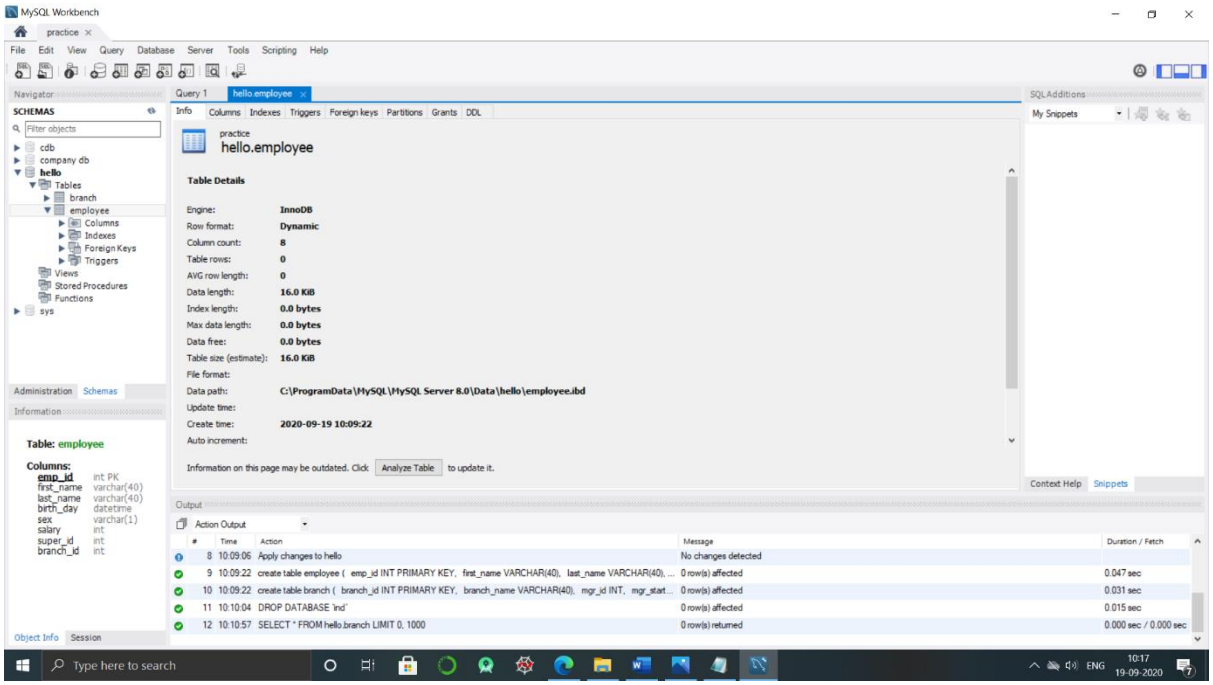
6.a. 1. Hover over the table name in the left side schemas panel of Workbench



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

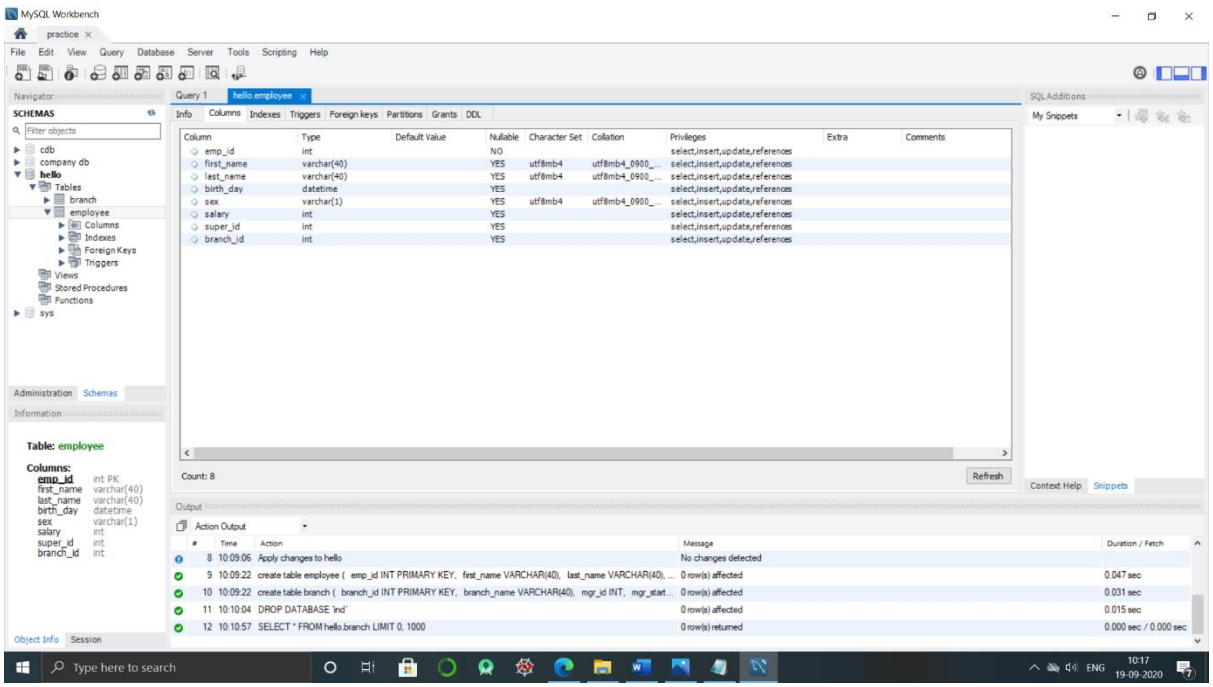


3. A new tab opens by the name hello.employee

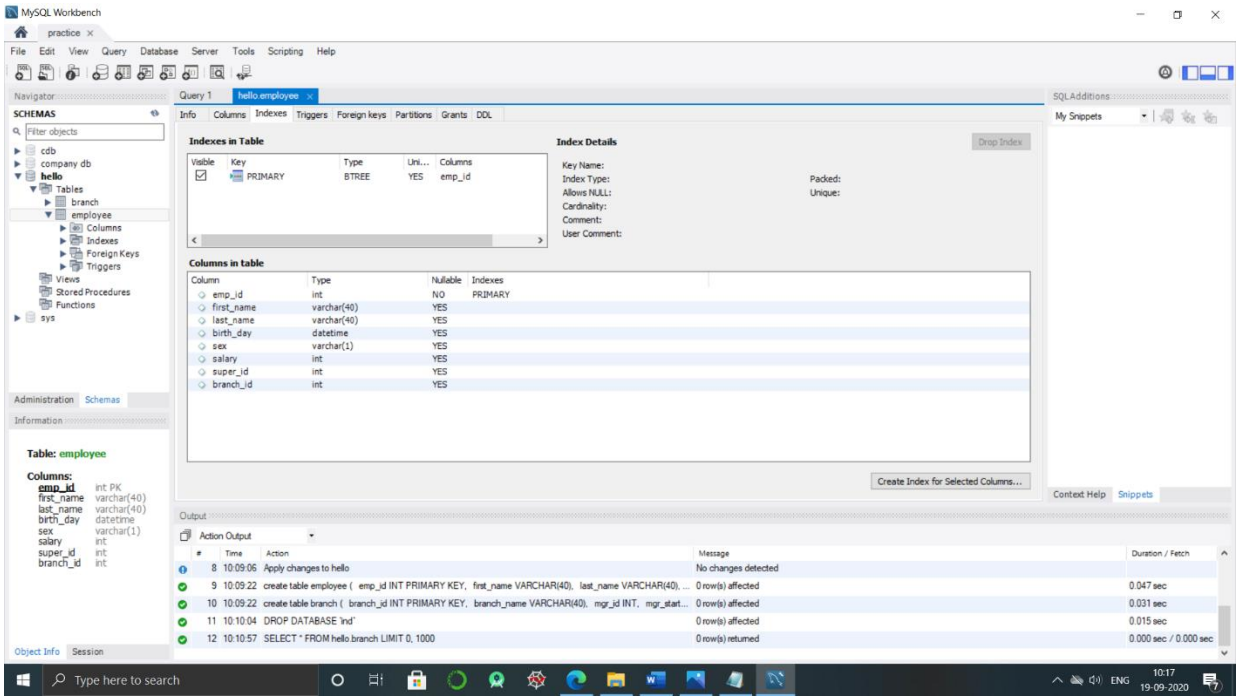


4. Now you can click on whatever you want to get information about the table. Like columns,indexes etc.

Columns:

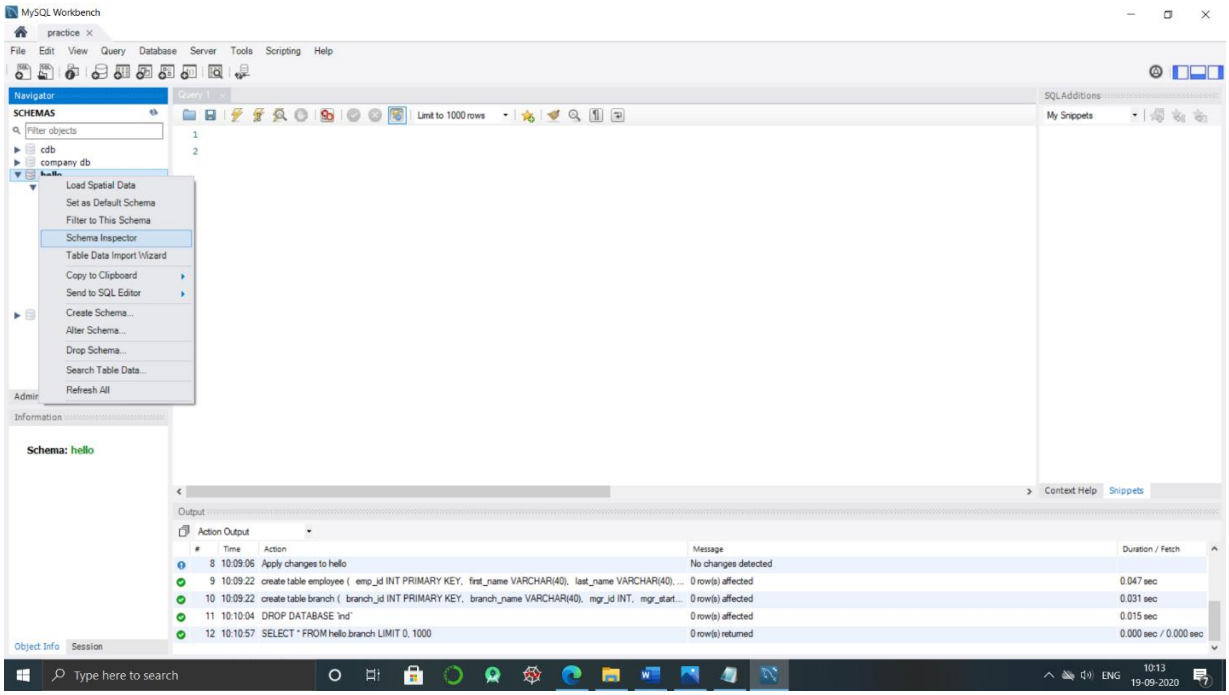


Indexes:

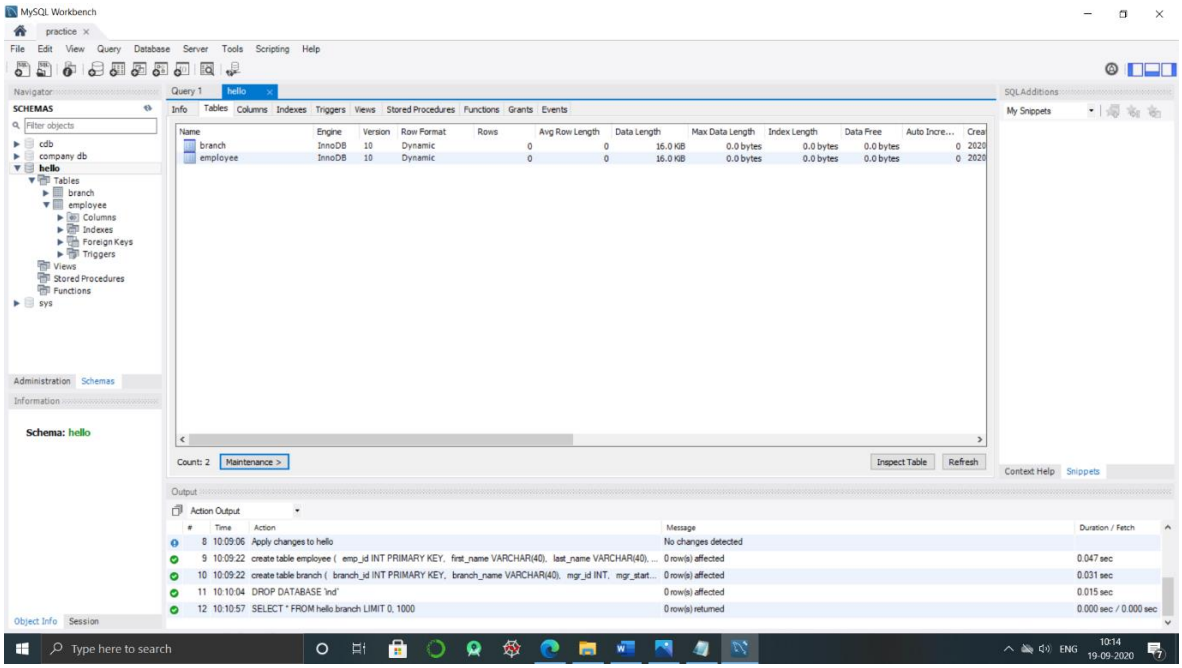


You can also get the schema of the database using schema inspector like this :

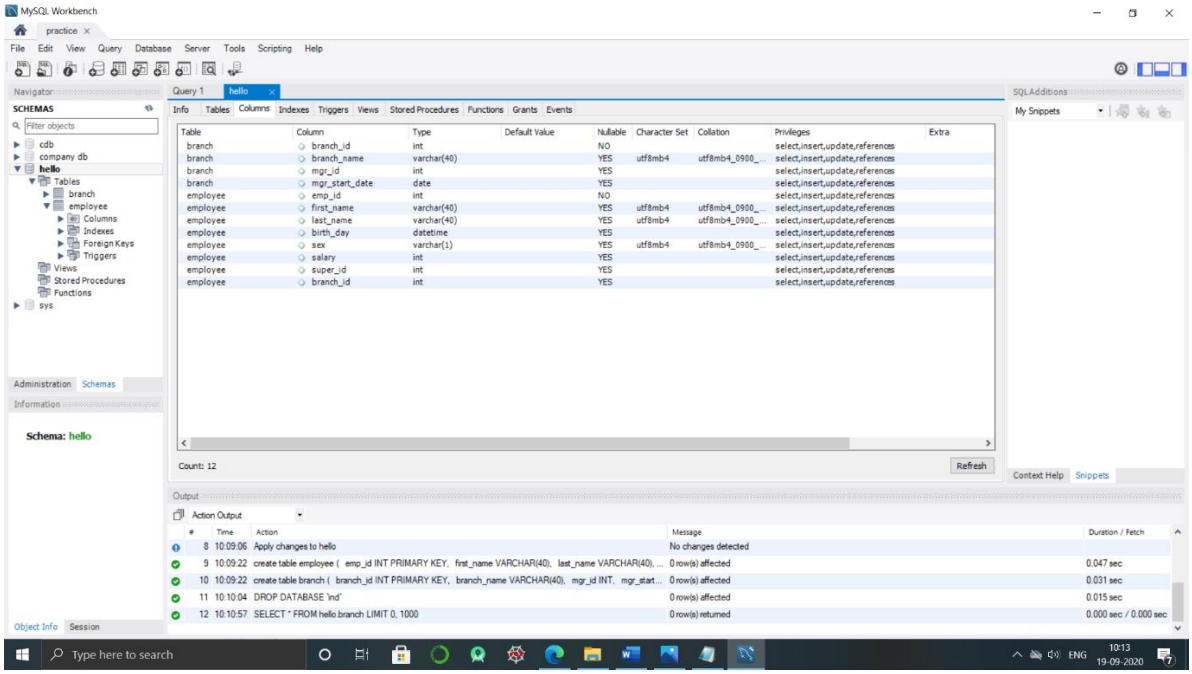
1.



2.


MySQL Workbench
practice
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
cdb
company db
hello
Tables
branch
employee
Columns
Indexes
Foreign Keys
Triggers
Views
Stored Procedures
Functions
sys
Administration Schemas
Information
Schema: hello
Object Info Session
Query 1 hello
Info Tables Columns Indexes Triggers Views Stored Procedures Functions Grants Events
Name Engine Version Row Format Rows Avg Row Length Data Length Max Data Length Index Length Data Free Auto Incre... Crea
branch InnoDB 10 Dynamic 0 0 16.0 KiB 0.0 bytes 0.0 bytes 0.0 bytes 0 2020
employee InnoDB 10 Dynamic 0 0 16.0 KiB 0.0 bytes 0.0 bytes 0.0 bytes 0 2020
Count: 2
Maintenance >
Inspect Table
Refresh
SQLAdditions
My Snippets
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
8 10:09:06 Apply changes to hello No changes detected
9 10:09:22 create table employee (emp_id INT PRIMARY KEY, first_name VARCHAR(40), last_name VARCHAR(40), ... 0 row(s) affected 0.047 sec
10 10:09:22 create table branch (branch_id INT PRIMARY KEY, branch_name VARCHAR(40), mgr_id INT, mgr_start... 0 row(s) affected 0.031 sec
11 10:10:04 DROP DATABASE 'ind' 0 row(s) affected 0.015 sec
12 10:10:57 SELECT * FROM hello.branch LIMIT 0, 1000 0 row(s) returned 0.000 sec / 0.000 sec
Type here to search
ENG
10:14
19-09-2020

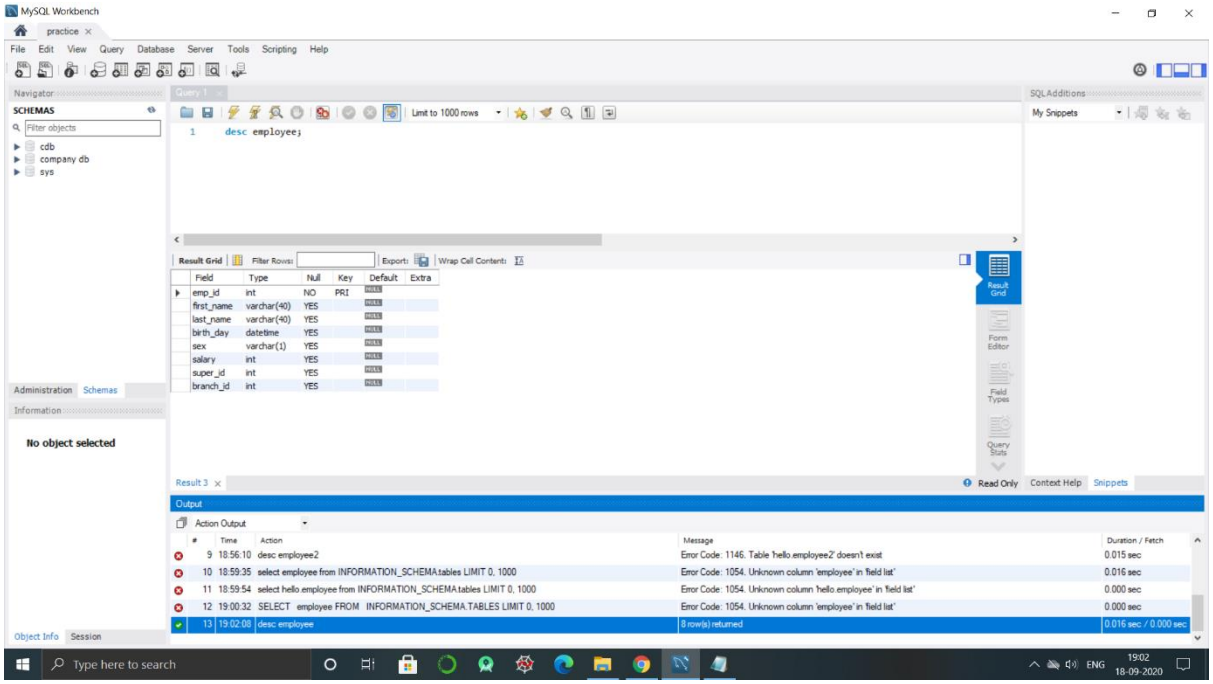
3.


MySQL Workbench
practice
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
cdb
company db
hello
Tables
branch
employee
Columns
Indexes
Foreign Keys
Triggers
Views
Stored Procedures
Functions
sys
Administration Schemas
Information
Schema: hello
Object Info Session
Query 1 hello
Info Tables Columns Indexes Triggers Views Stored Procedures Functions Grants Events
Table Column Type Default Value Nullable Character Set Collation Privileges Extra
branch branch_id int NO select,insert,update,references
branch branch_name varchar(40) YES utf8mb4 utf8mb4_0900_... select,insert,update,references
branch mgr_id int YES select,insert,update,references
branch mgr_start_date date YES select,insert,update,references
employee emp_id int NO select,insert,update,references
employee first_name varchar(40) YES utf8mb4 utf8mb4_0900_... select,insert,update,references
employee last_name varchar(40) YES utf8mb4 utf8mb4_0900_... select,insert,update,references
employee birth_day datetime YES select,insert,update,references
employee sex varchar(1) YES utf8mb4 utf8mb4_0900_... select,insert,update,references
employee salary int YES select,insert,update,references
employee super_id int YES select,insert,update,references
employee branch_id int YES select,insert,update,references
Count: 12
Refresh
SQLAdditions
My Snippets
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
8 10:09:06 Apply changes to hello No changes detected
9 10:09:22 create table employee (emp_id INT PRIMARY KEY, first_name VARCHAR(40), last_name VARCHAR(40), ... 0 row(s) affected 0.047 sec
10 10:09:22 create table branch (branch_id INT PRIMARY KEY, branch_name VARCHAR(40), mgr_id INT, mgr_start... 0 row(s) affected 0.031 sec
11 10:10:04 DROP DATABASE 'ind' 0 row(s) affected 0.015 sec
12 10:10:57 SELECT * FROM hello.branch LIMIT 0, 1000 0 row(s) returned 0.000 sec / 0.000 sec
Type here to search
ENG
10:13
19-09-2020

6.b. Using describe query :

Query : desc employee;

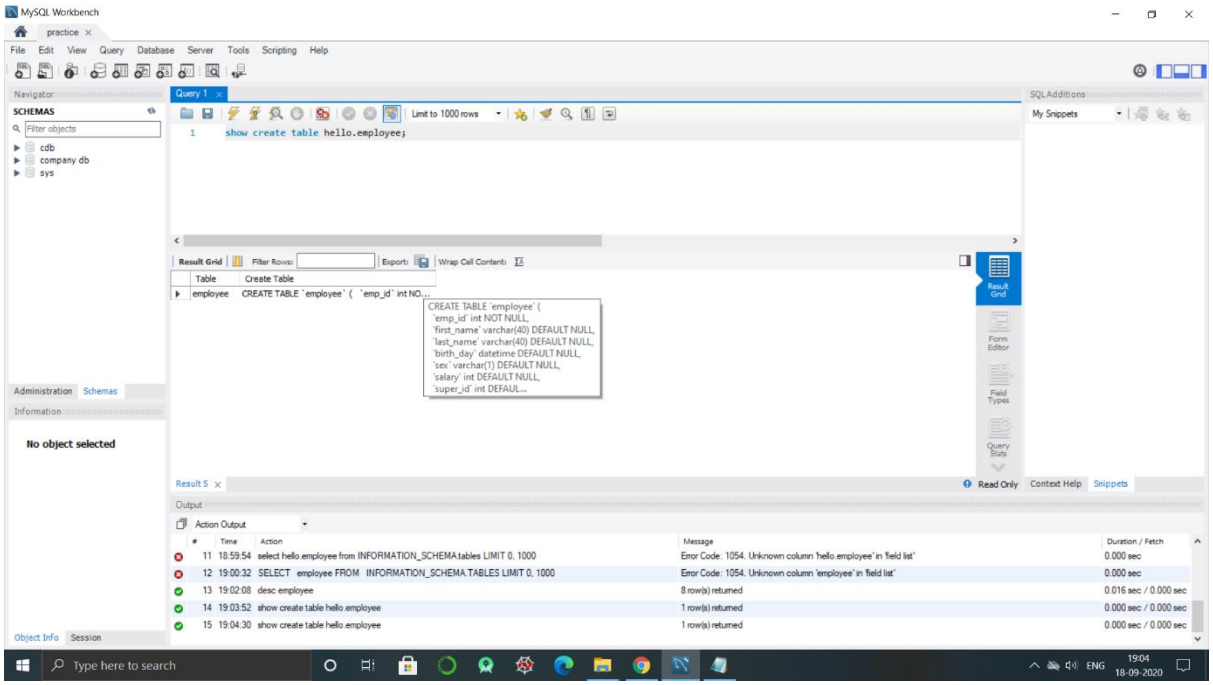
Output :



6.c. Using show query :

Query : show create table hello.employee;

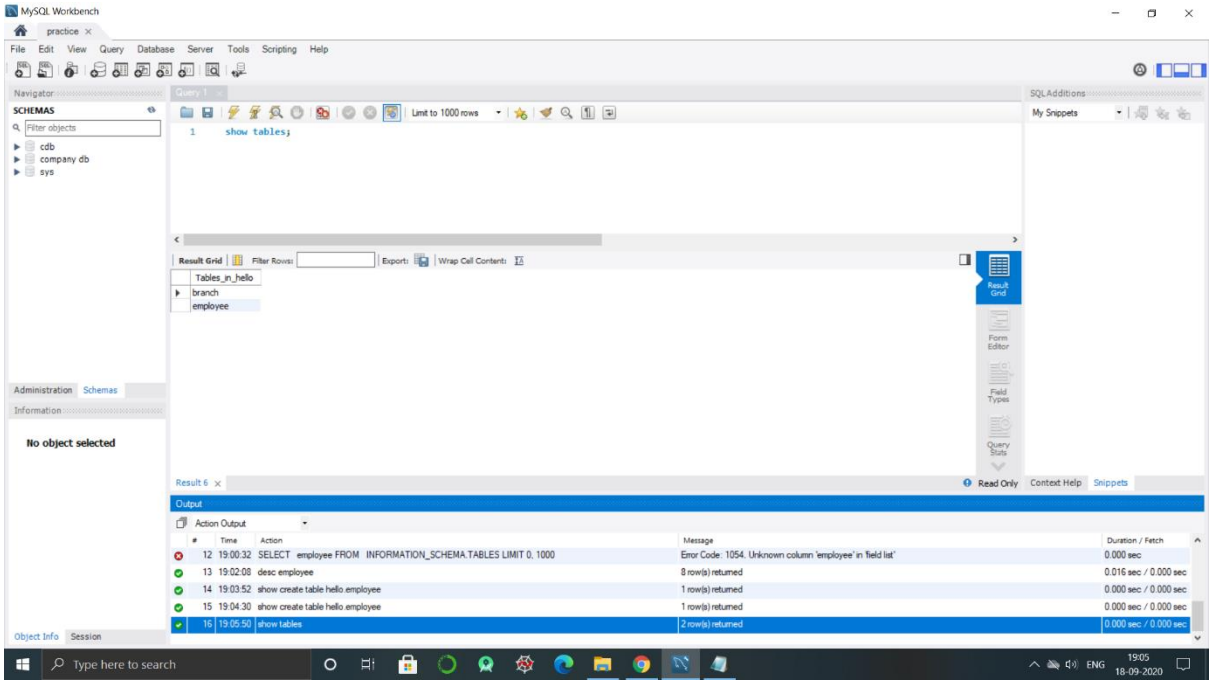
Output :



7. **Show all the tables from the database.**

Query : show tables;

Output :

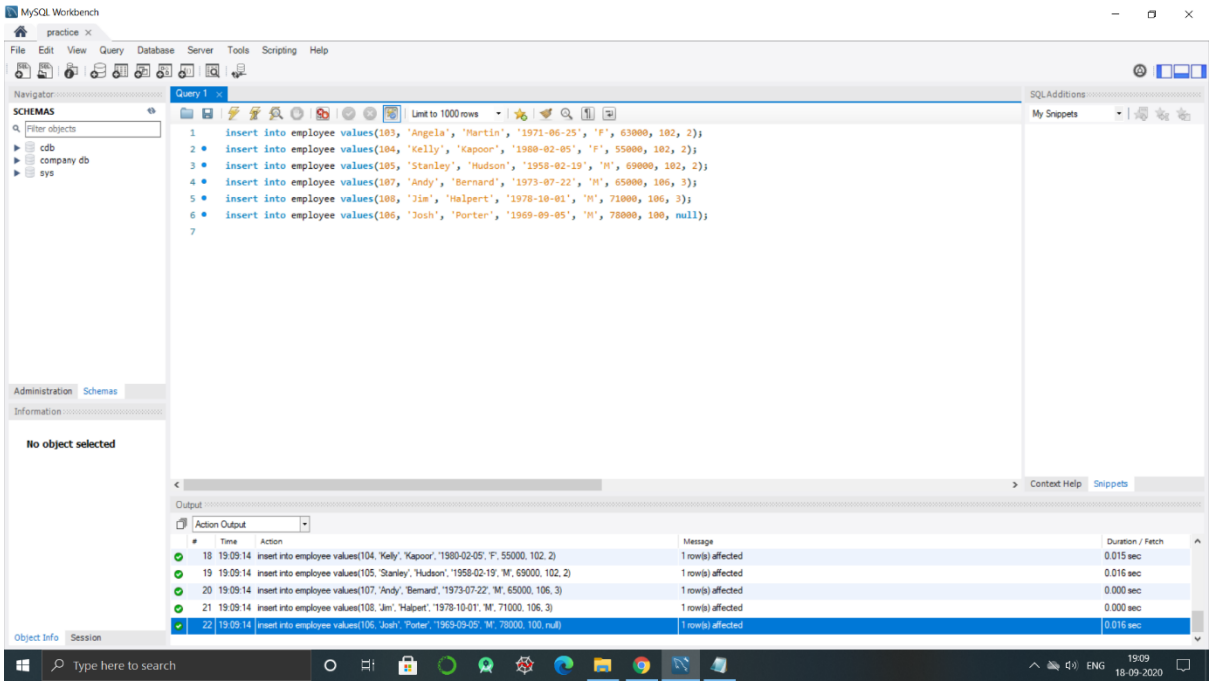


8. **Insert 5 to 10 rows in each of the tables of your Database.**

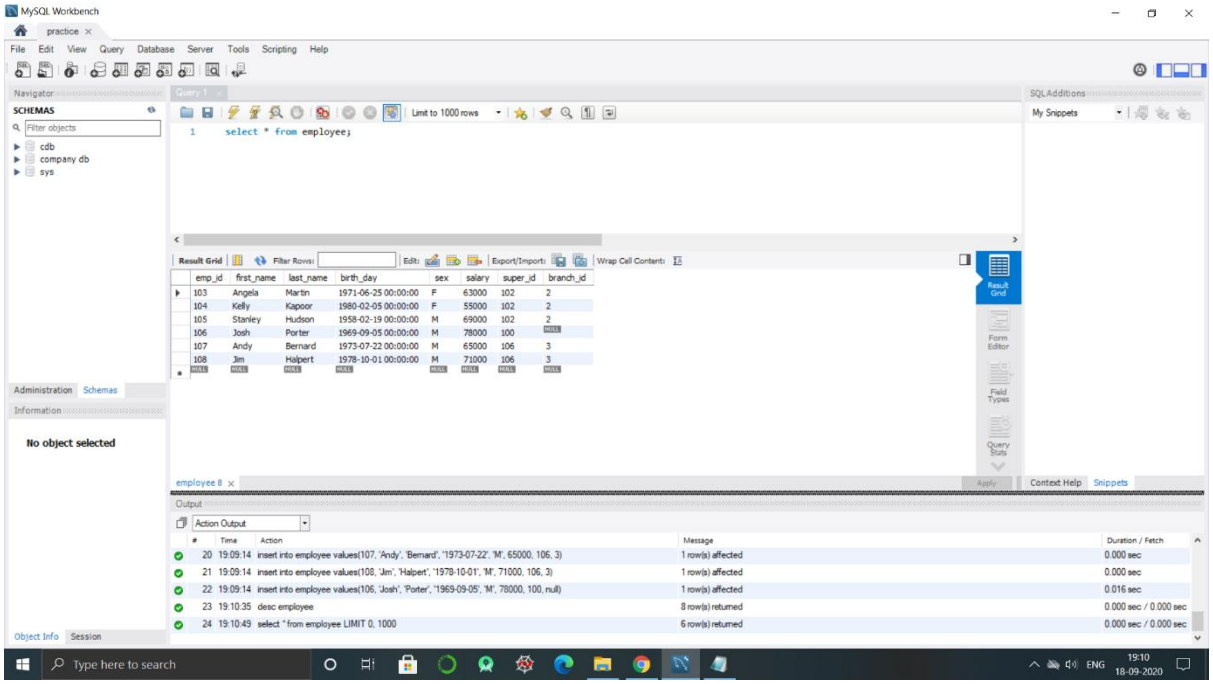
Inserting data into employee table :

Query : insert into employee values(103, 'Angela', 'Martin', '1971-06-25', 'F', 63000, 102, 2);

Output :



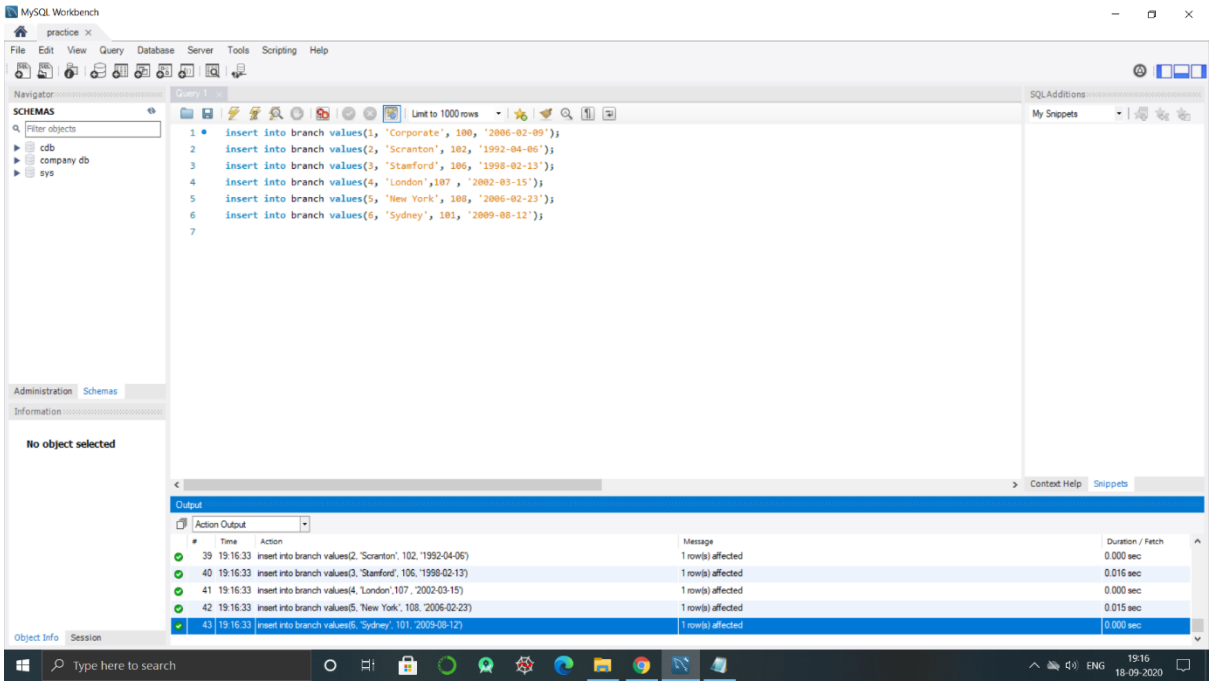
Verifying whether data has been inserted properly or not by fetching the data using select query :



Inserting data into branch table :

Query : insert into branch values(4, 'London',107 , '2002-03-15');

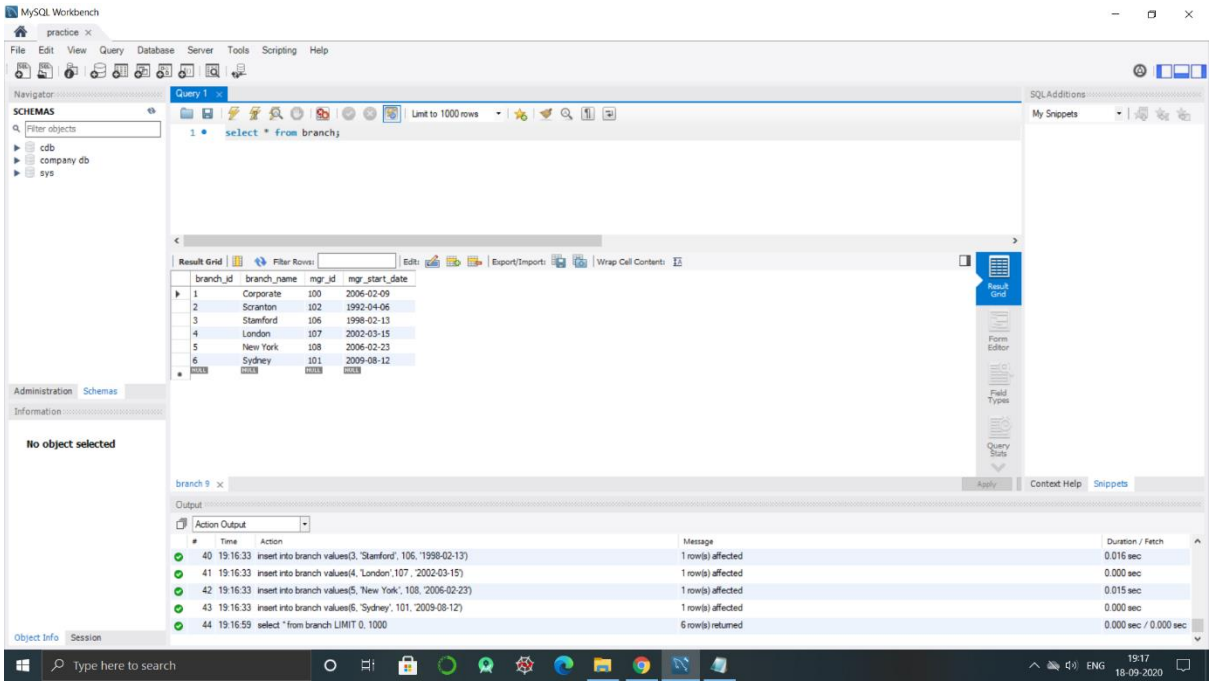
Output :



9. Show usage of Simple Select Statement:

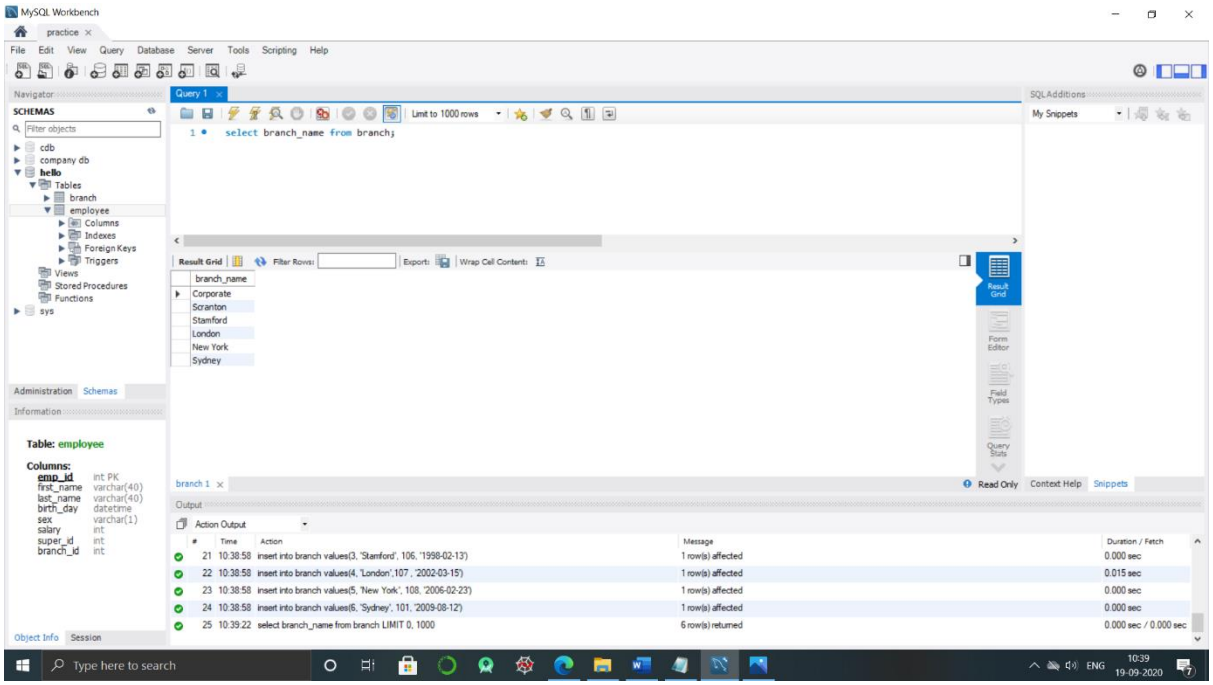
Query1 : select * from branch;

Output :



Query 2 : select branch_name from branch;

Output :

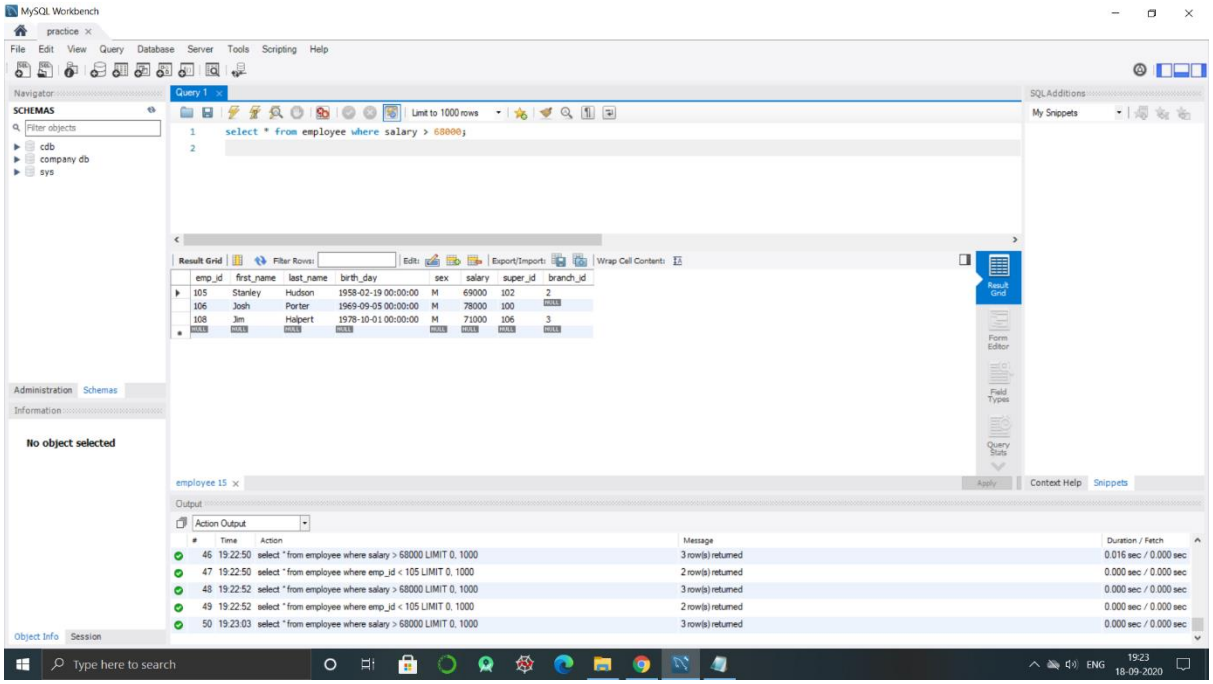


10. Select Statement using Relational and Logical operators.

10.a. Using Relational Operators :

1. “>” operator:

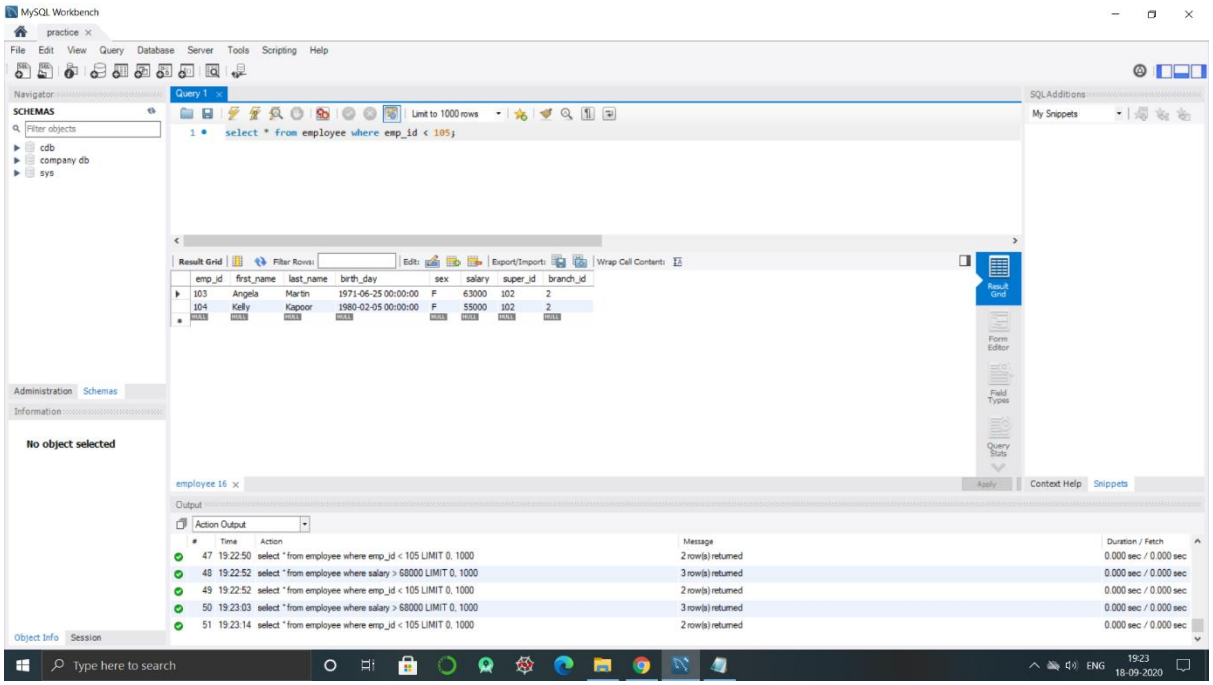
Query : select * from employee where salary > 68000;



2. “<” operator:

Query : select * from employee where emp_id < 105;

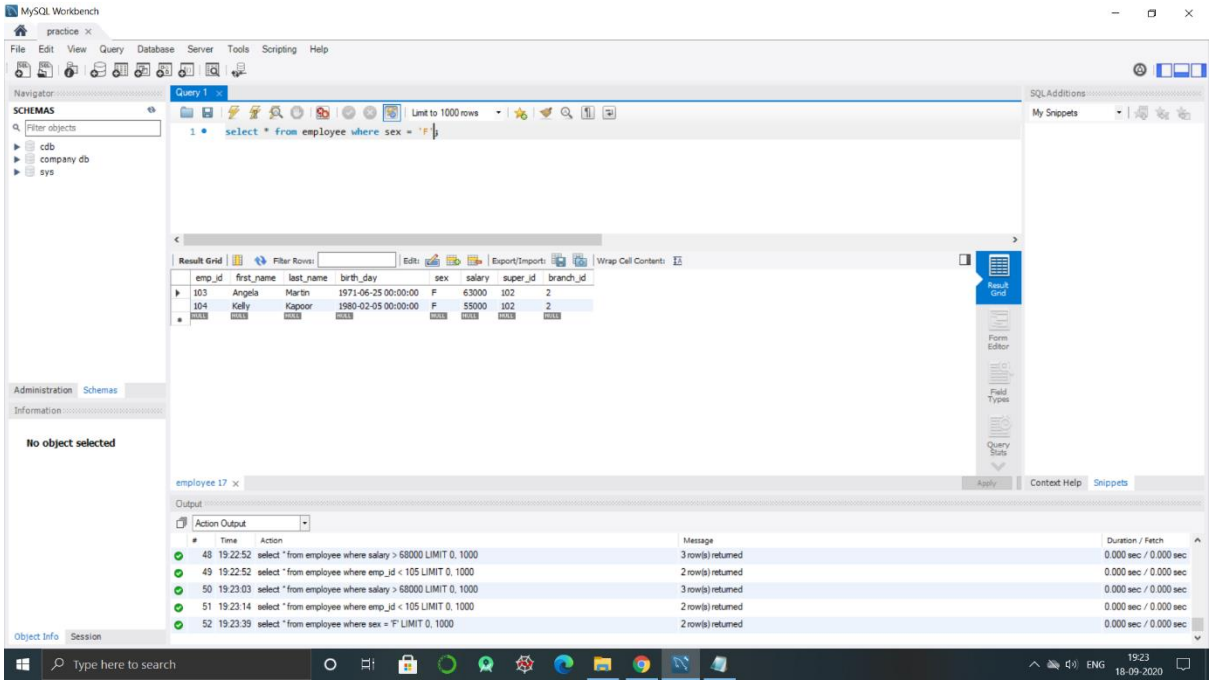
Output :



3. “=” operator :

Query : select * from employee where sex = 'F';

Output :

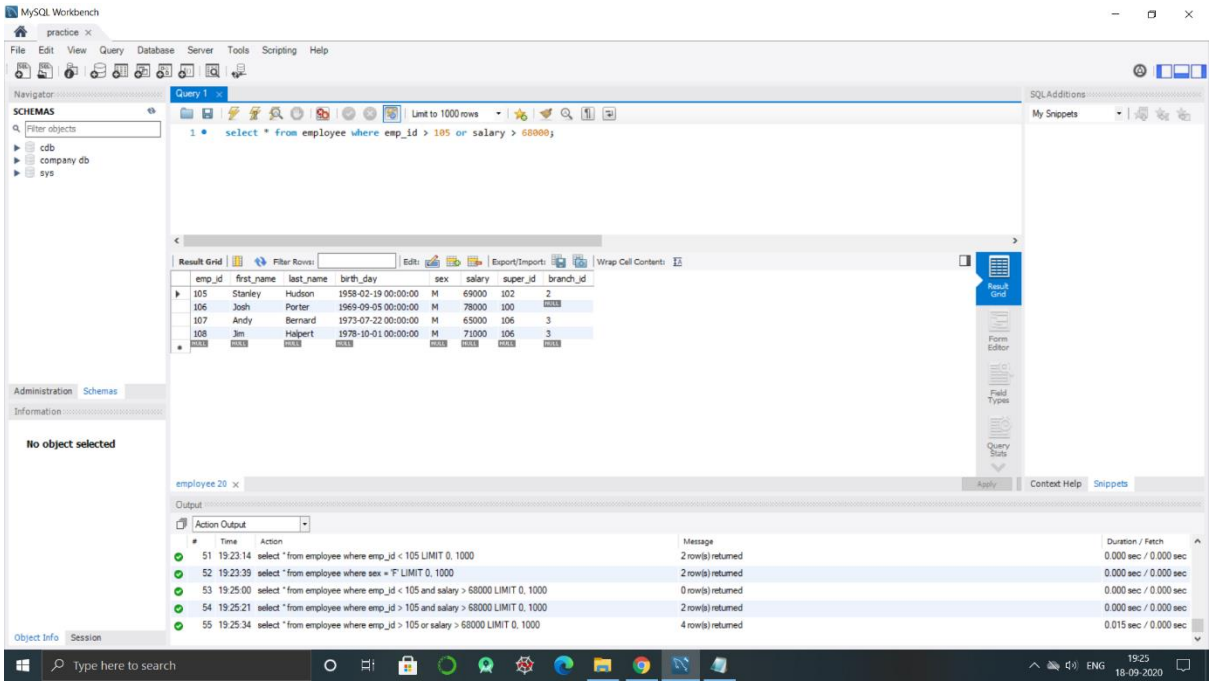


10.b. Using Logical Operators :

1. “OR” operator :

Query : select * from employee where emp_id > 105 or salary > 68000;

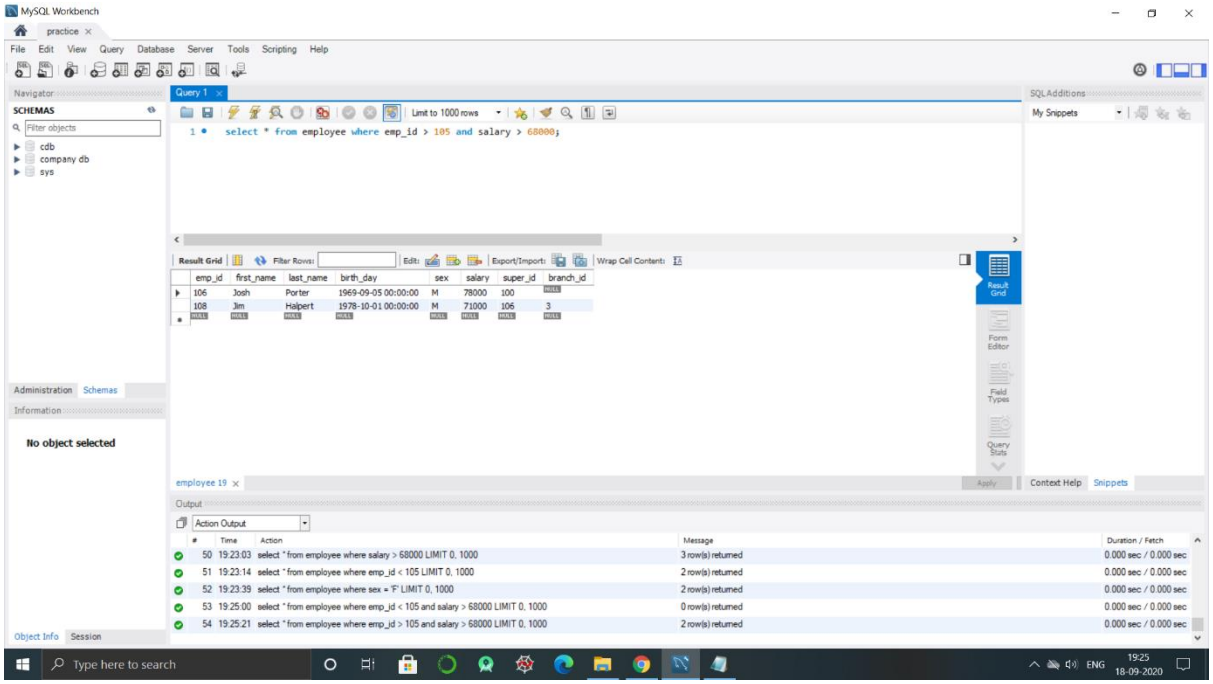
Output :



2. “AND” operator :

Query : select * from employee where emp_id > 105 and salary > 68000;

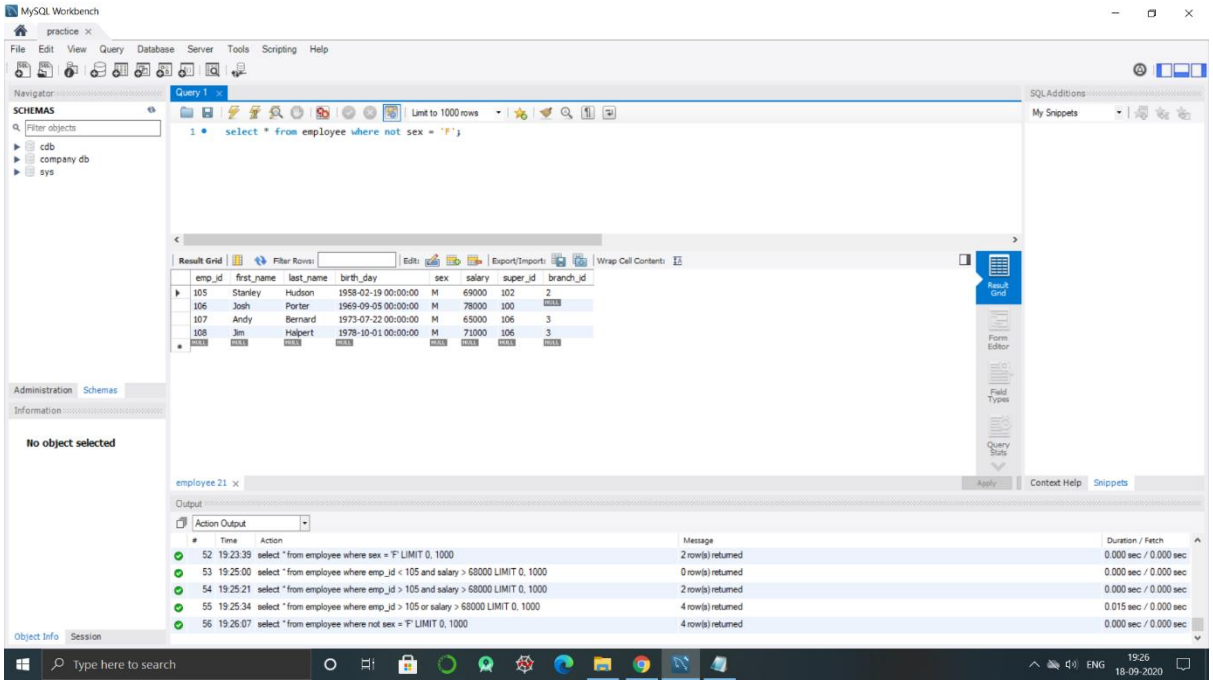
Output :



3. “NOT” operator :

Query : select * from employee where not sex = 'F';

Output :

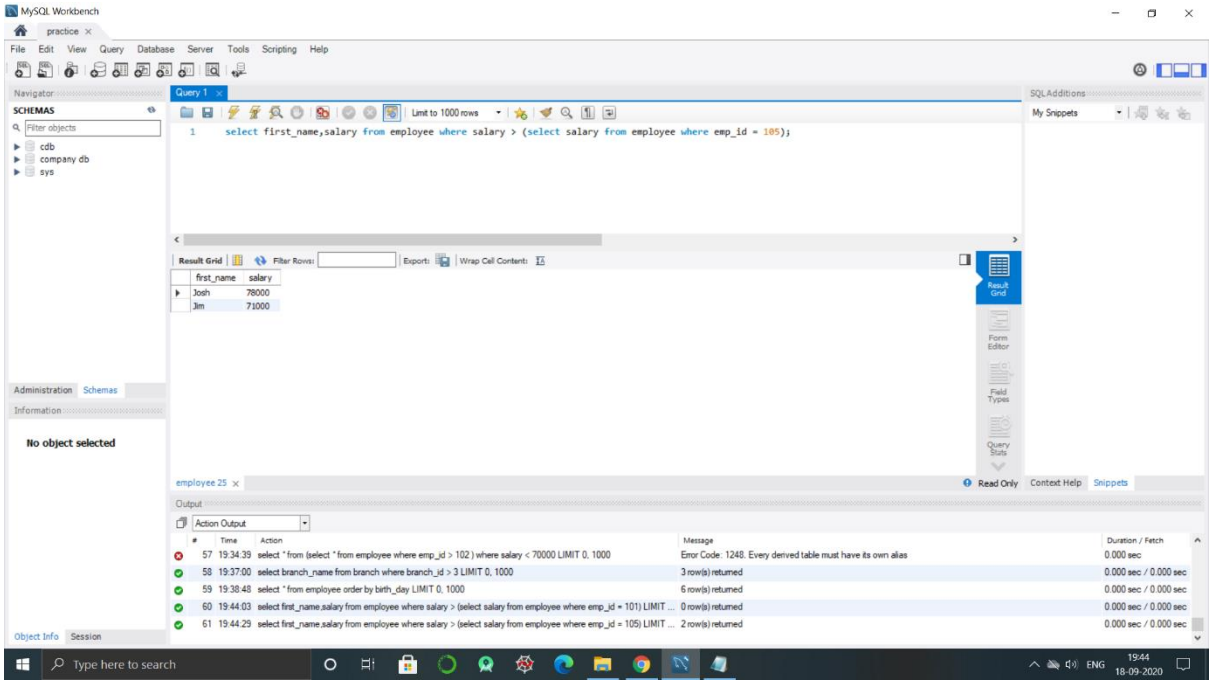


11. One simple Subquery using select.

Query :

```
select first_name,salary from employee where salary > (select salary from employee where emp_id = 105);
```

Output :



- **By Group 16**

  Sumith Sai Budde,18bcs101

  Syed Sufyan Ahmed,18bcs103

  Bharath MP,18bcs057

  S. Sampath,18bcs087

  G. Jagan Mohan Reddy,18bcs029

  Trishul KS ,18bcs104