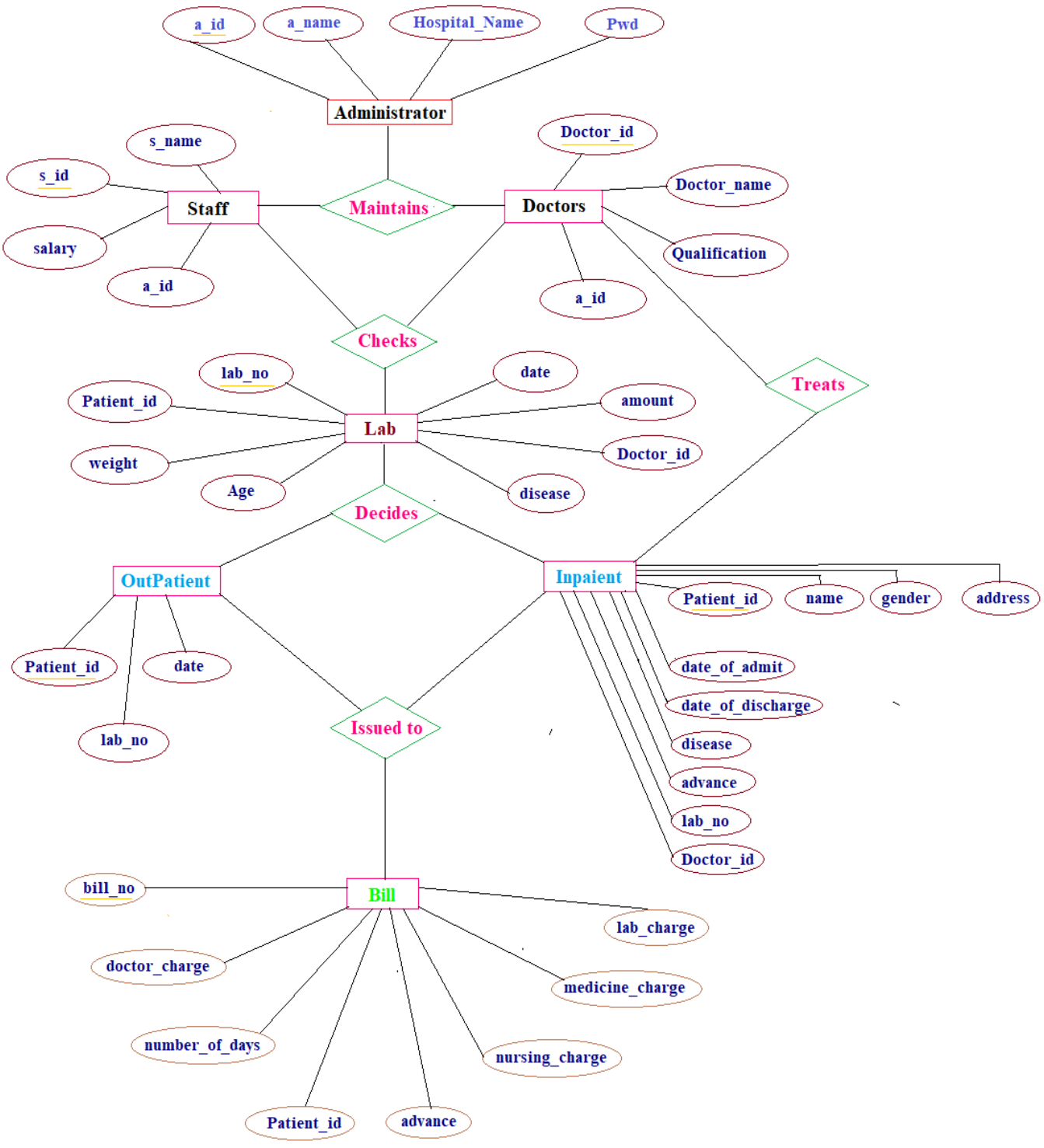
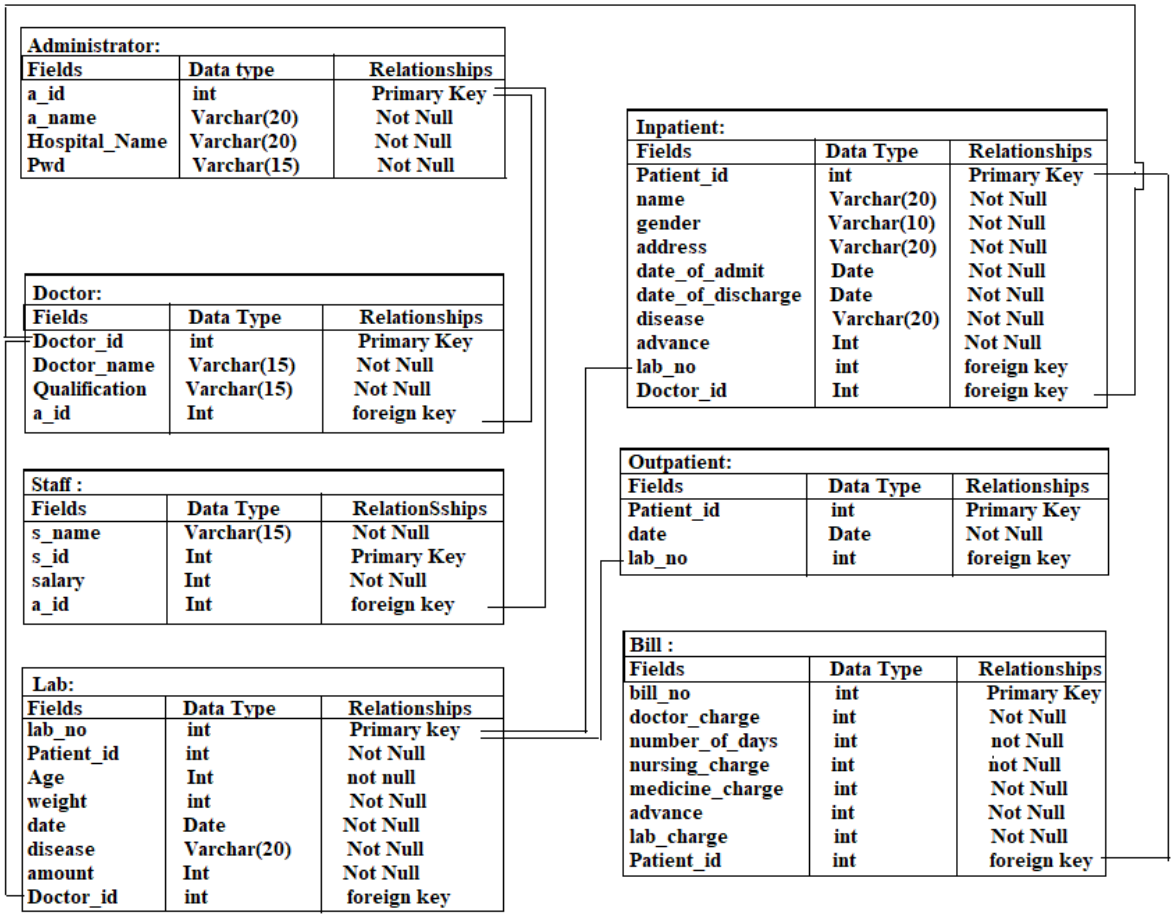
5.0 Outcome of micro project.

- **ER Diagram.**



- **Schema & Relations Diagram:**



Administrator:

Fields	Data type	Relationships
a_id	int	Primary Key
a_name	Varchar(20)	Not Null
Hospital_Name	Varchar(20)	Not Null
Pwd	Varchar(15)	Not Null

Doctor:

Fields	Data Type	Relationships
Doctor_id	int	Primary Key
Doctor_name	Varchar(15)	Not Null
Qualification	Varchar(15)	Not Null
a_id	Int	foreign key

Staff :

Fields	Data Type	RelationSships
s_name	Varchar(15)	Not Null
s_id	Int	Primary Key
salary	Int	Not Null
a_id	Int	foreign key

Lab:

Fields	Data Type	Relationships
lab_no	int	Primary key
Patient_id	int	Not Null
Age	Int	not null
weight	int	Not Null
date	Date	Not Null
disease	Varchar(20)	Not Null
amount	Int	Not Null
Doctor_id	int	foreign key

Inpatient:

Fields	Data Type	Relationships
Patient_id	int	Primary Key
name	Varchar(20)	Not Null
gender	Varchar(10)	Not Null
address	Varchar(20)	Not Null
date_of_admit	Date	Not Null
date_of_discharge	Date	Not Null
disease	Varchar(20)	Not Null
advance	Int	Not Null
lab_no	int	foreign key
Doctor_id	Int	foreign key

Outpatient:

Fields	Data Type	Relationships
Patient_id	int	Primary Key
date	Date	Not Null
lab_no	int	foreign key

Bill :

Fields	Data Type	Relationships
bill_no	int	Primary Key
doctor_charge	int	Not Null
number_of_days	int	not Null
nursing_charge	int	not Null
medicine_charge	int	Not Null
advance	int	Not Null
lab_charge	int	Not Null
Patient_id	int	foreign key

- **Actual Project Creation using SQL queries:**

1.Database creation-

```
Create Database HMS_db;
use HMS_db;
```

2.Tables in Database-

```
Create table Administrator(a_id int Primary Key,a_name Varchar(20) Not
Null,Hospital_Name Varchar(20),Pwd Varchar(15),CHECK (Pwd IN
("NS_T_H+_dbase")));

Create table Doctor(Doctor_id int Primary Key,Doctor_name Varchar(15) Not
Null,Qualification Varchar(15) Not Null,a_id Int,
foreign key(a_id) references Administrator(a_id) on delete cascade);
```

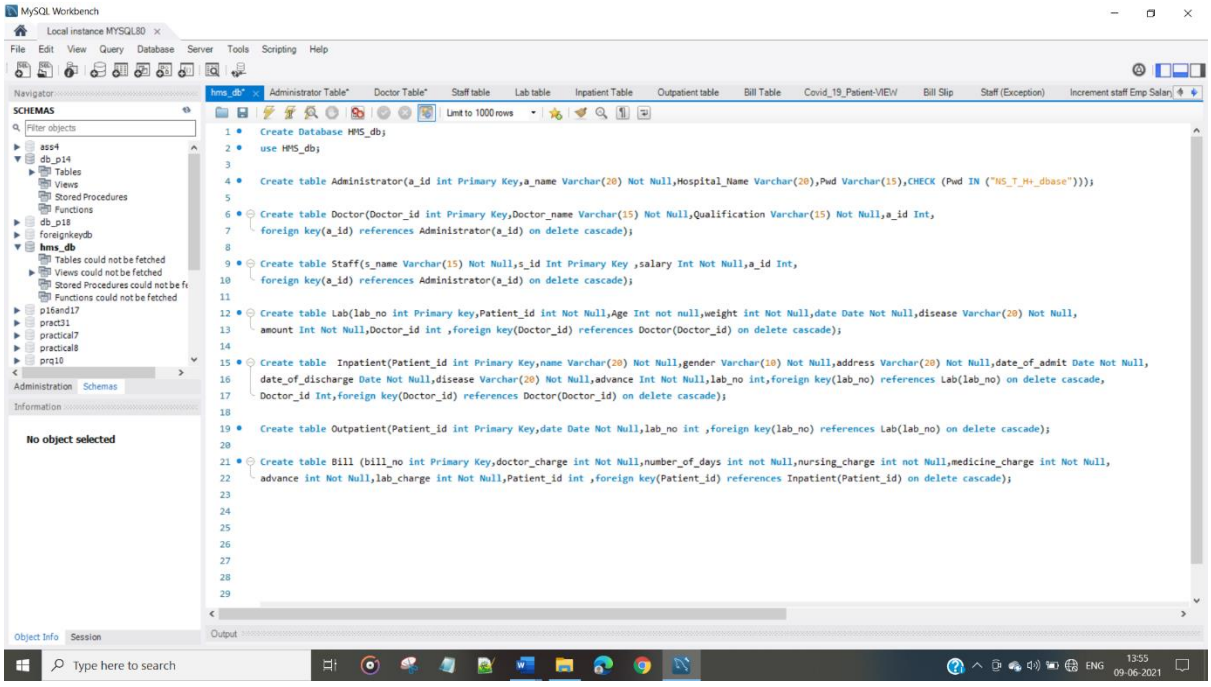
Create table Staff(s_name Varchar(15) Not Null,s_id Int Primary Key ,salary Int Not Null,a_id Int,
foreign key(a_id) references Administrator(a_id) on delete cascade);

Create table Lab(lab_no int Primary key,Patient_id int Not Null,Age Int not null,weight int Not Null,date Date Not Null,disease Varchar(20) Not Null, amount Int Not Null,Doctor_id int ,foreign key(Doctor_id) references Doctor(Doctor_id) on delete cascade);

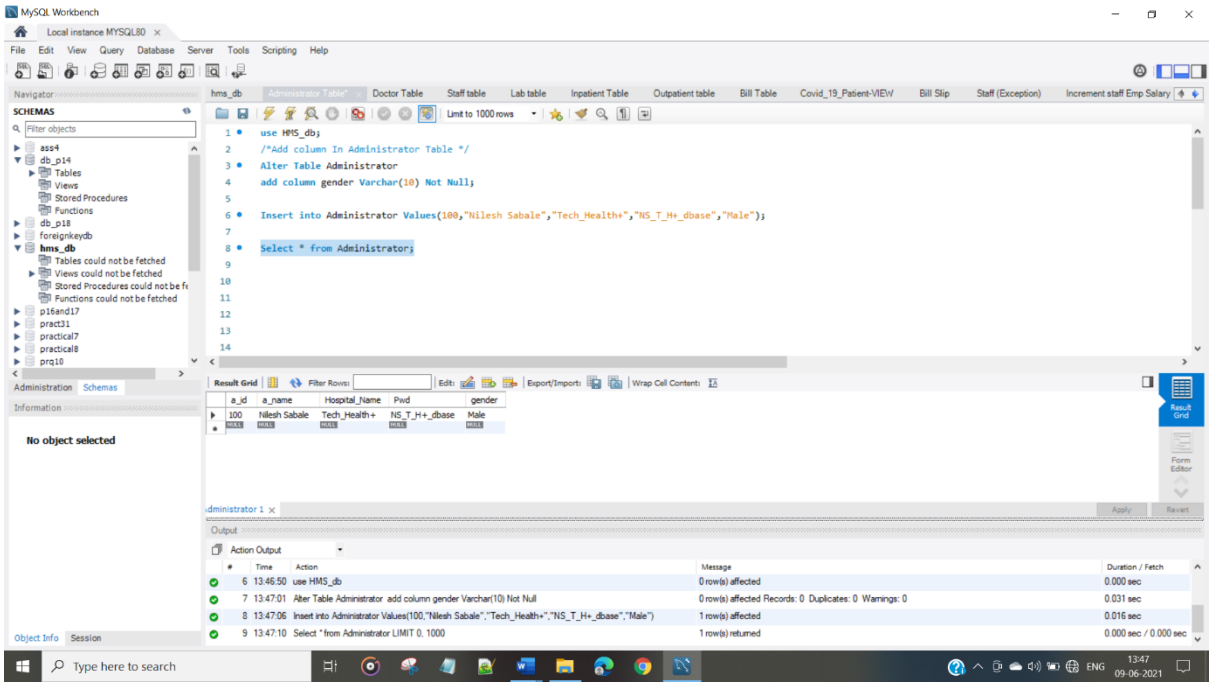
Create table Inpatient(Patient_id int Primary Key,name Varchar(20) Not Null,gender Varchar(10) Not Null,address Varchar(20) Not Null,date_of_admit Date Not Null, date_of_discharge Date Not Null,disease Varchar(20) Not Null,advance Int Not Null,lab_no int,foreign key(lab_no) references Lab(lab_no) on delete cascade, Doctor_id Int,foreign key(Doctor_id) references Doctor(Doctor_id) on delete cascade);

Create table Outpatient(Patient_id int Primary Key,date Date Not Null,lab_no int ,foreign key(lab_no) references Lab(lab_no) on delete cascade);

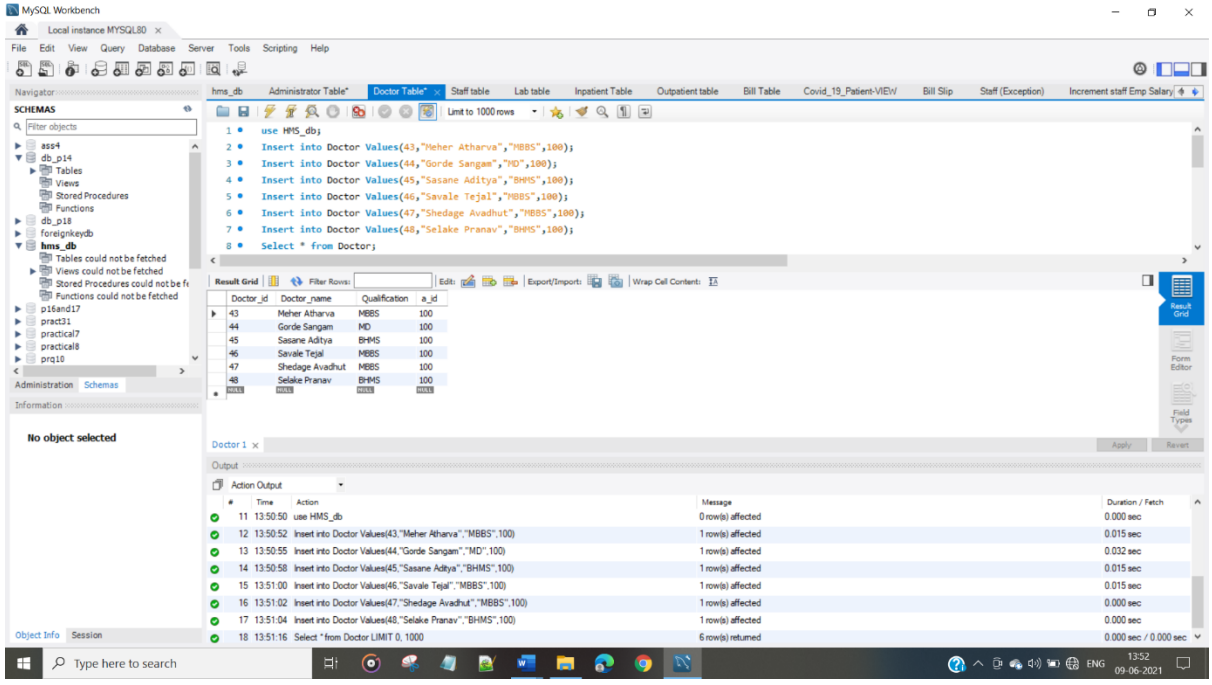
Create table Bill (bill_no int Primary Key,doctor_charge int Not Null,number_of_days int not Null,nursing_charge int not Null,medicine_charge int Not Null,
advance int Not Null,lab_charge int Not Null,Patient_id int ,foreign key(Patient_id) references Inpatient(Patient_id) on delete cascade);



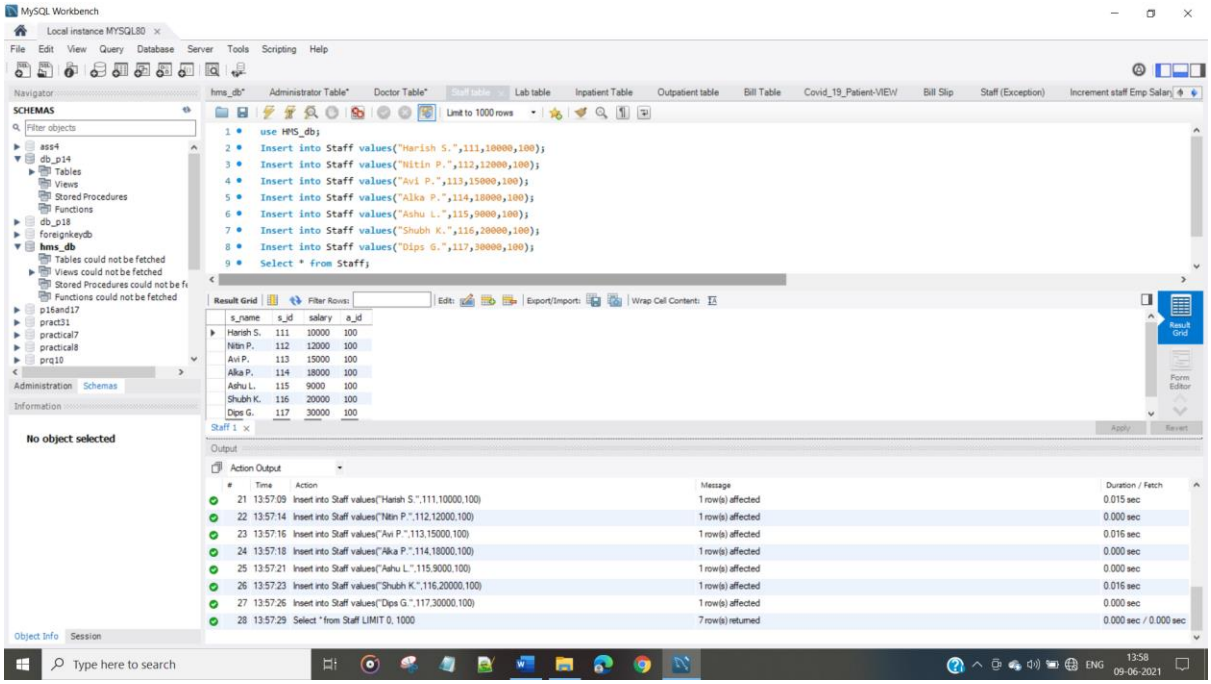
3. Insert Records in Administrator table-



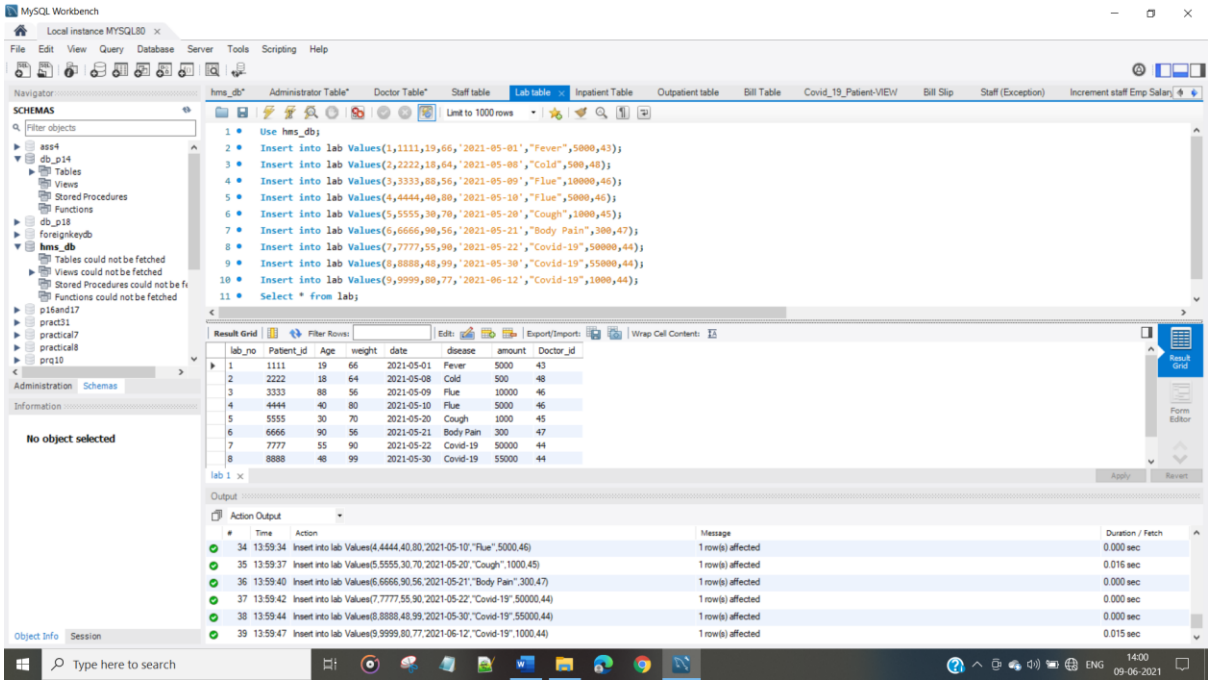
4. Insert Records in Doctor table



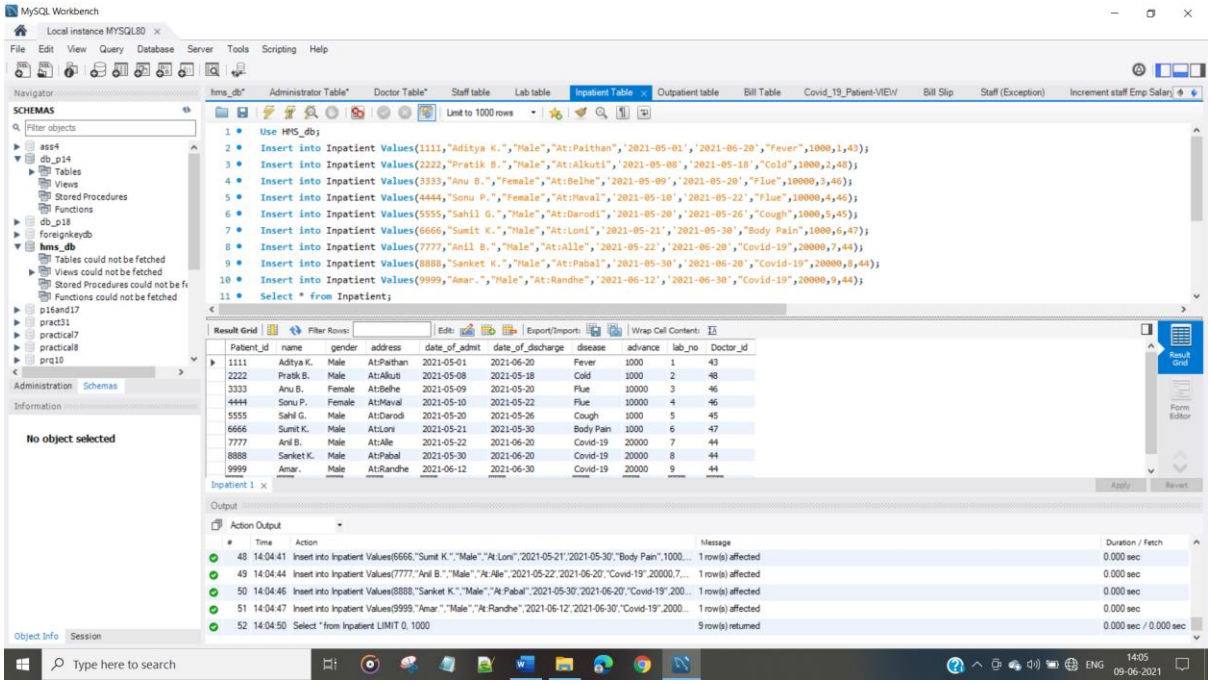
5. Insert Records in Staff table-



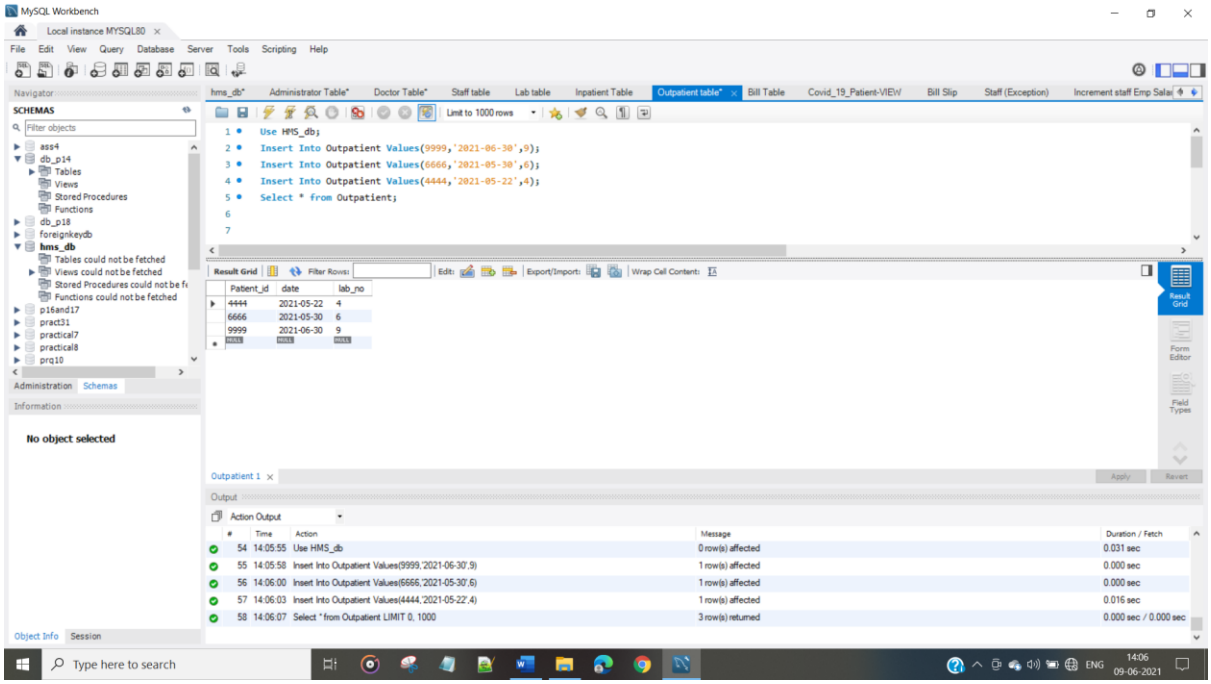
6. Insert Records in Lab table-



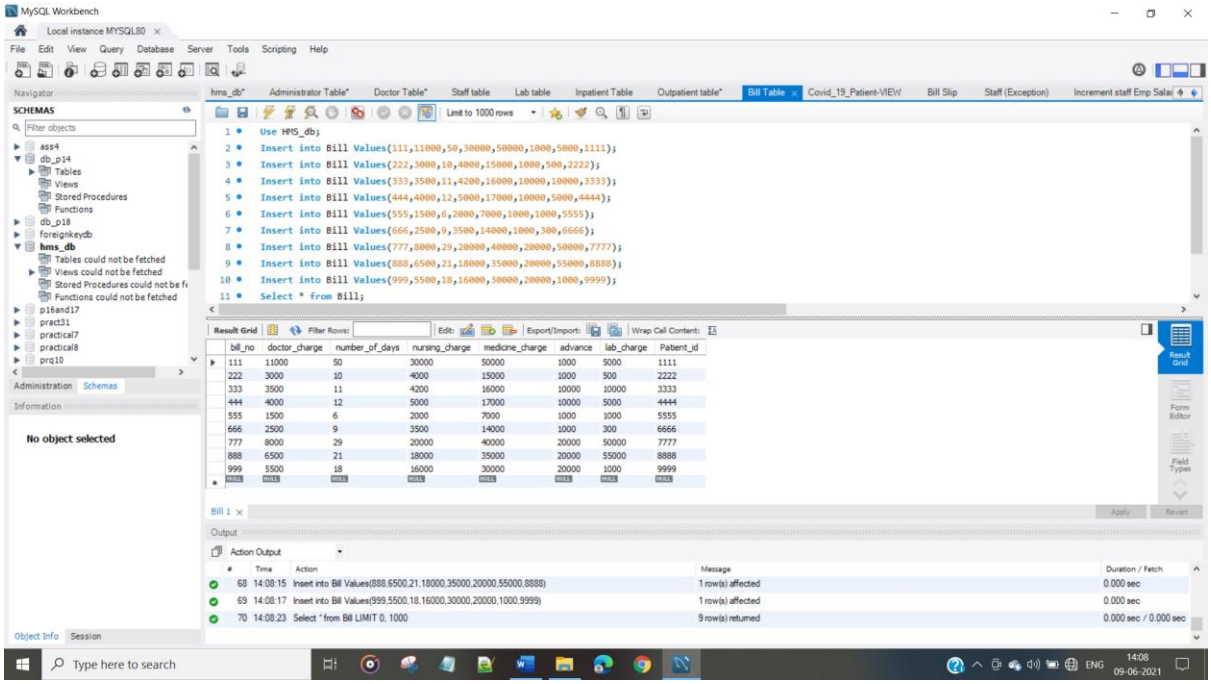
7. Insert Records in Inpatient table-



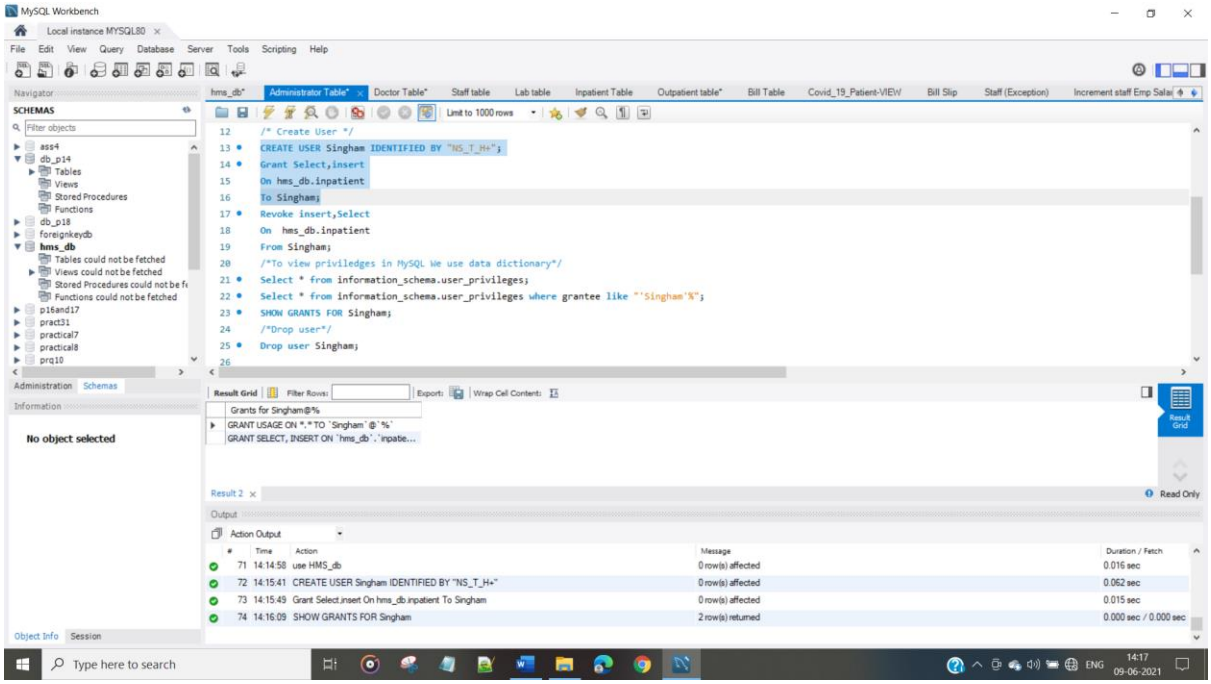
8. Insert Records in Outpatient table-



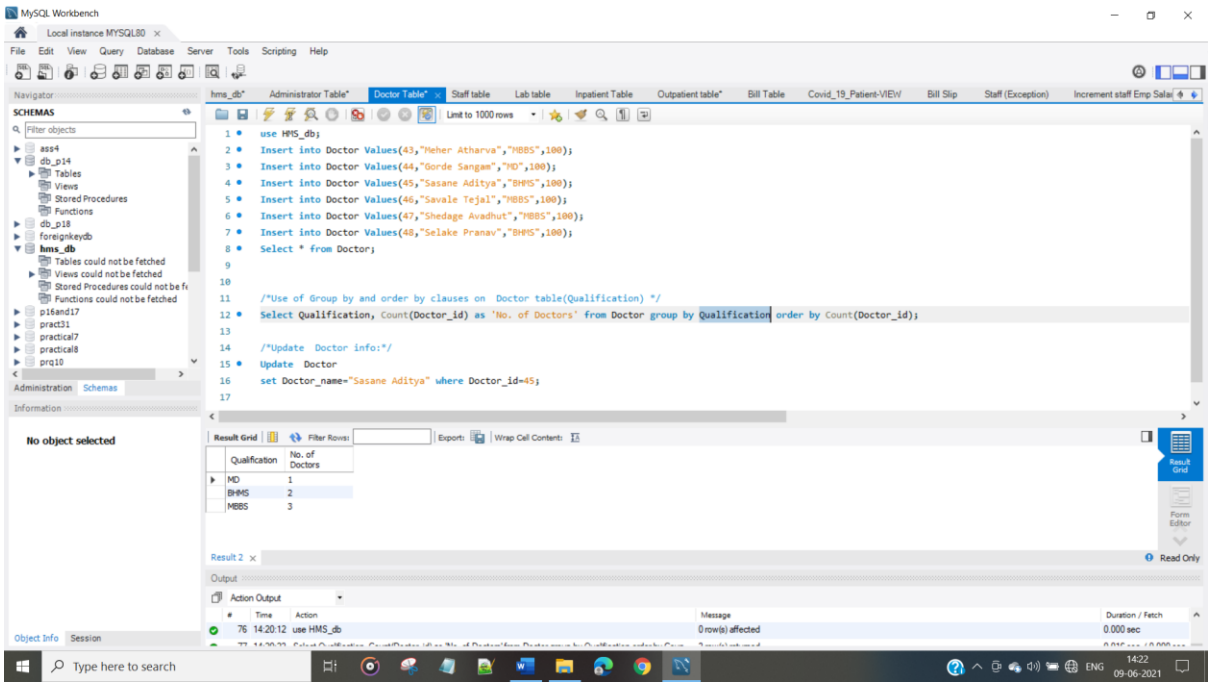
9. Insert Records in Bill table-



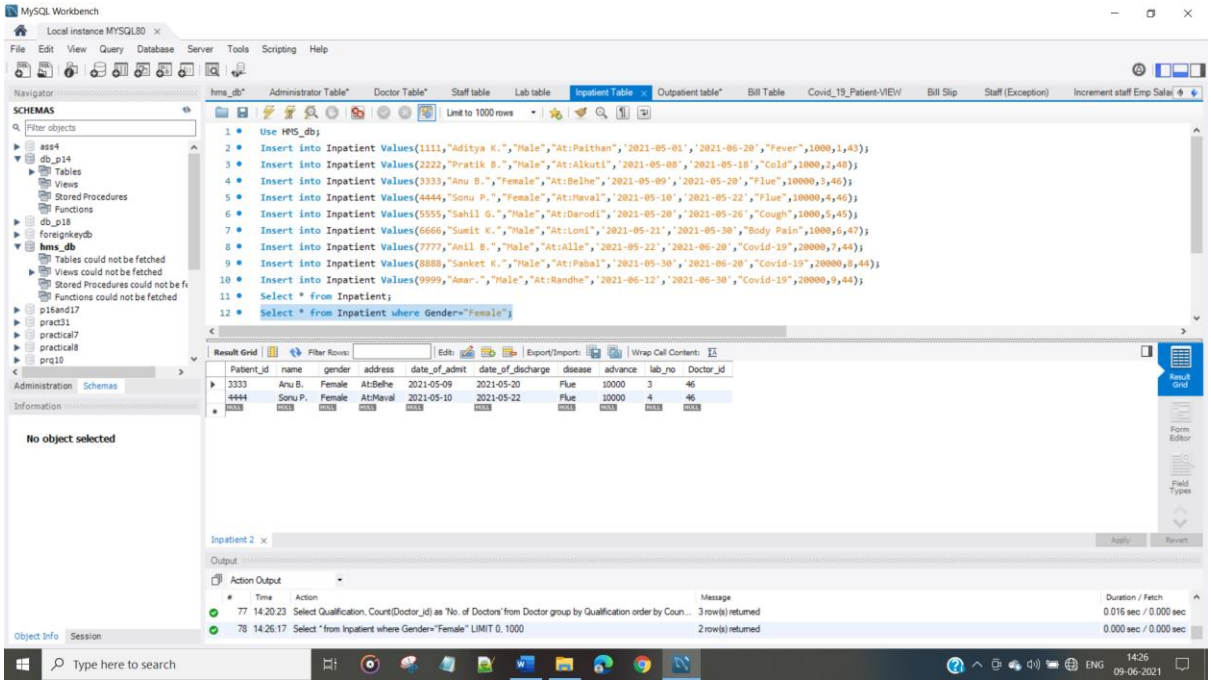
10. User Creation and Granting privileges to User-



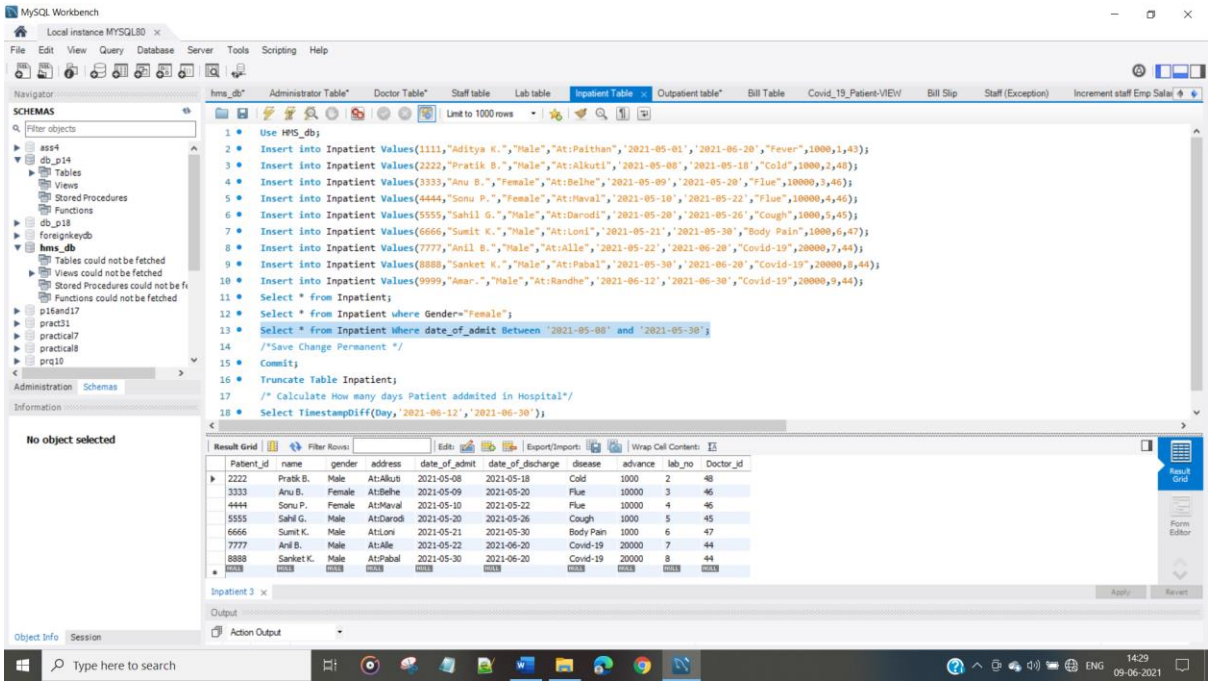
11. Find count of doctors Qualification wise (Using Group by clause)



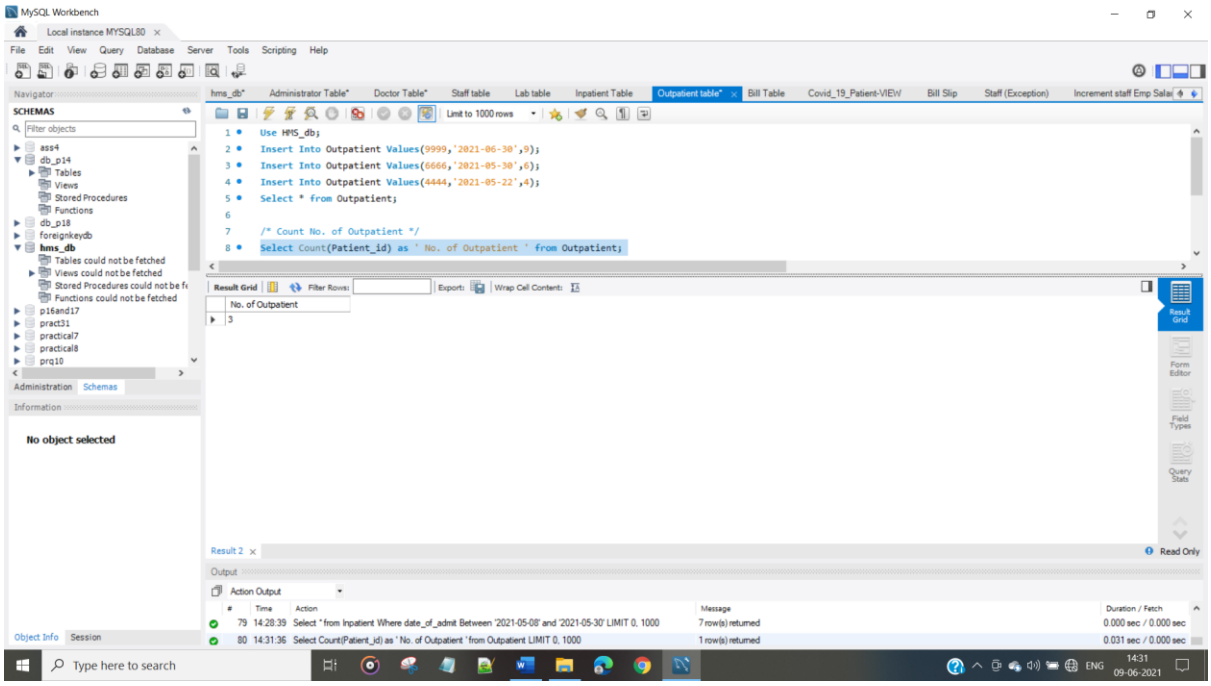
12. Find female patients in Inpatient table-



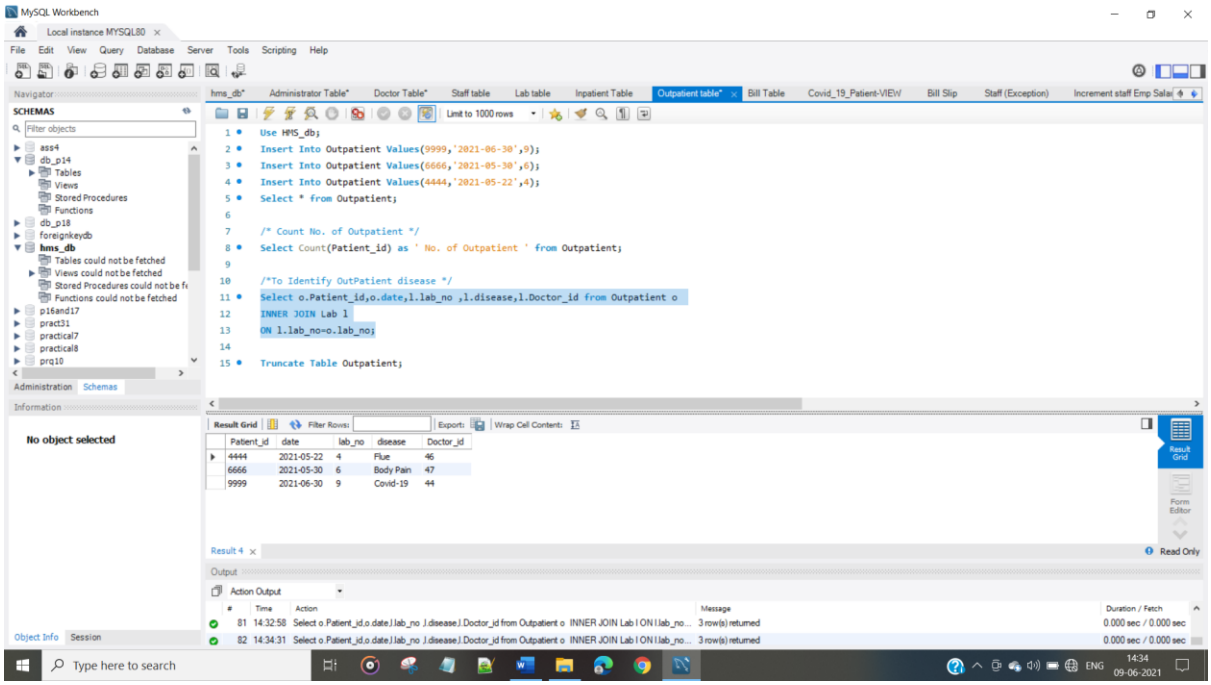
13. Find patient from Inpatient table where date_of_admit Between '2021-05-08' and '2021-05-30'



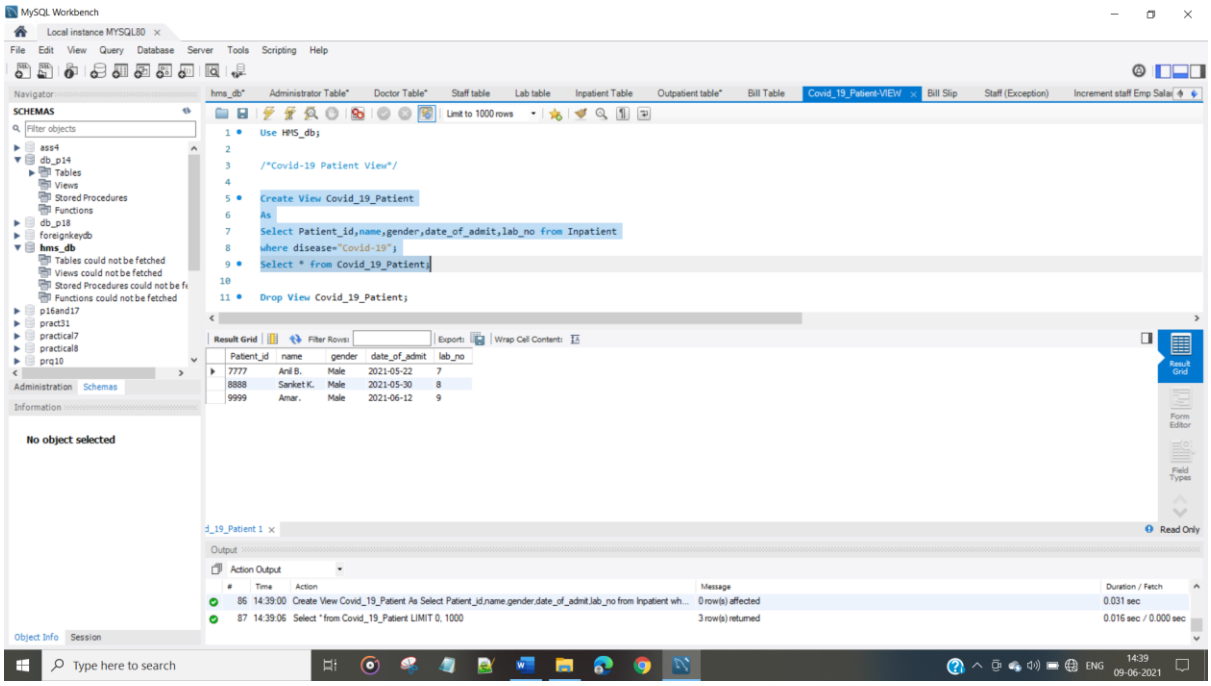
14. Count how many patients in outpatient table-



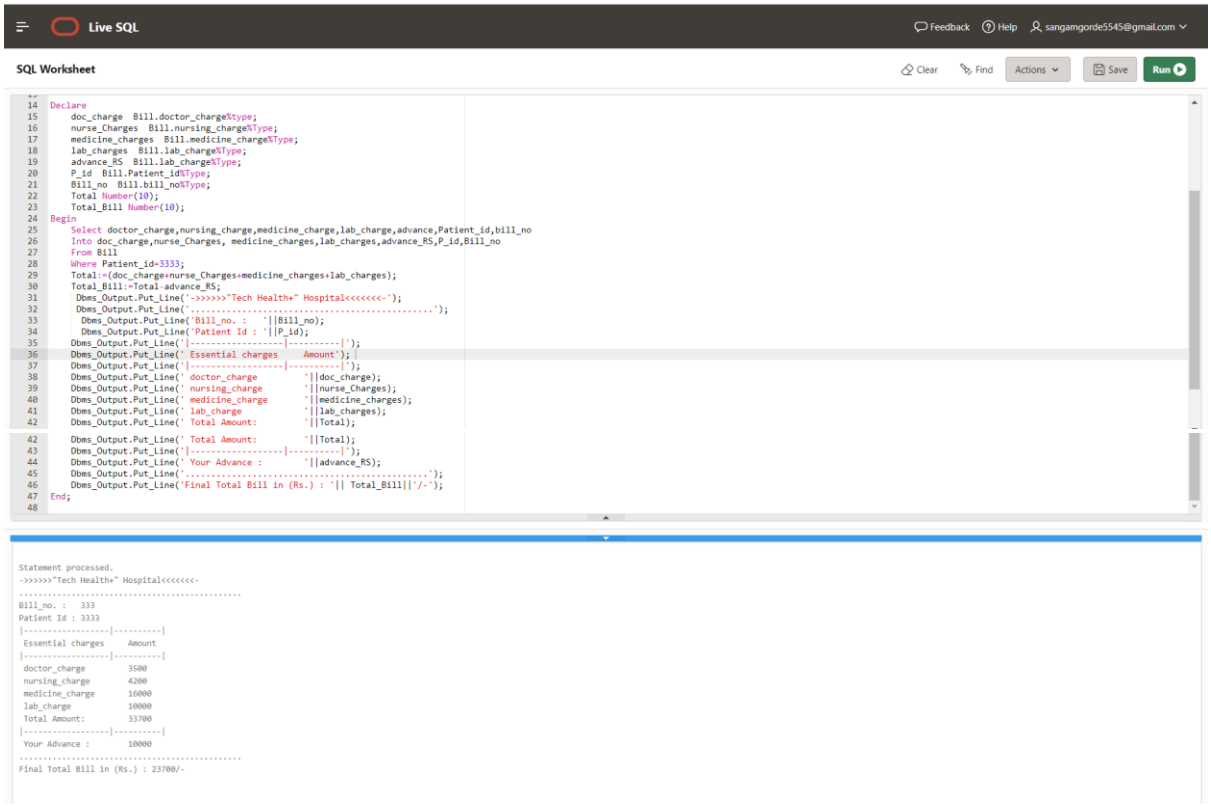
15. Display details(disease and doctor_id also) of patient in Outpatient Table(Using Inner join)-



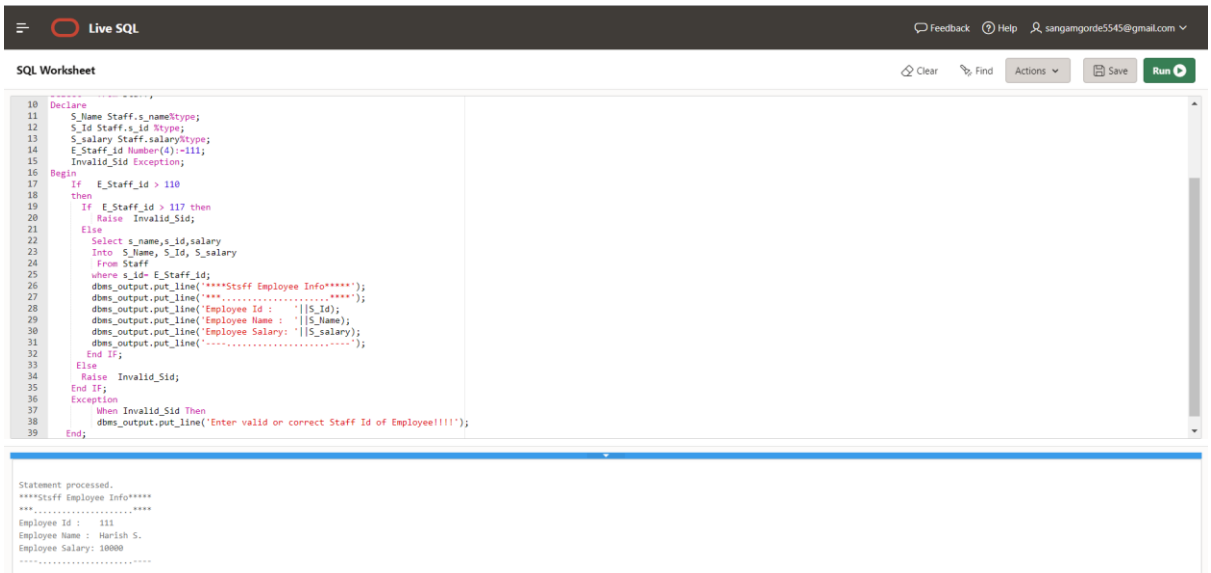
16. Display details of Covid-19 patient in Inpatient table (using view)-



17. Display bill slip of any one patient (Bill table)-

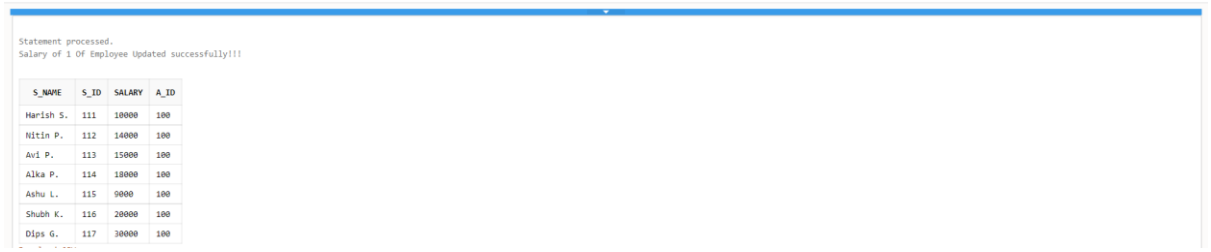


18. Display Info of any one employee in Staff table (using User define Exception)-



If you enter Invalid id then will be

19. Increment and Display Salary in Staff table of any one Employee (Using implicit_cursor)-



20. Display Lab-Patient on high risk(using Explicit Cursor)-

21. Add and Display Dead patient in outpatient Table (using Store Procedure)-

6.0 Resources Required: -

Sr. No.	Name of Resource	Specifications	Qty	Remarks
1	Software	MYSQL, Oracle Sql Live	1	-
2	Books	POD, DBMS	1	-