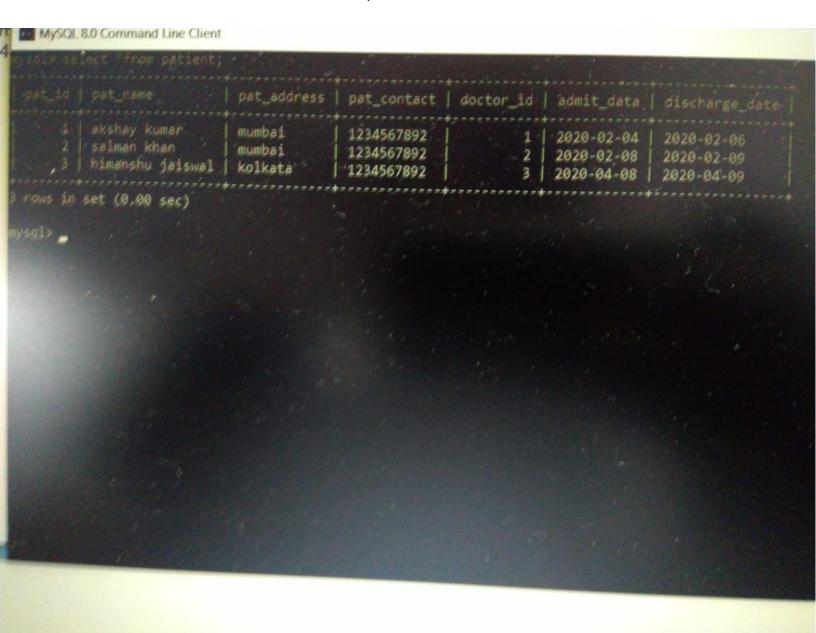
SQL Concepts - Afternoon Session

Relational Database: MY-SQL

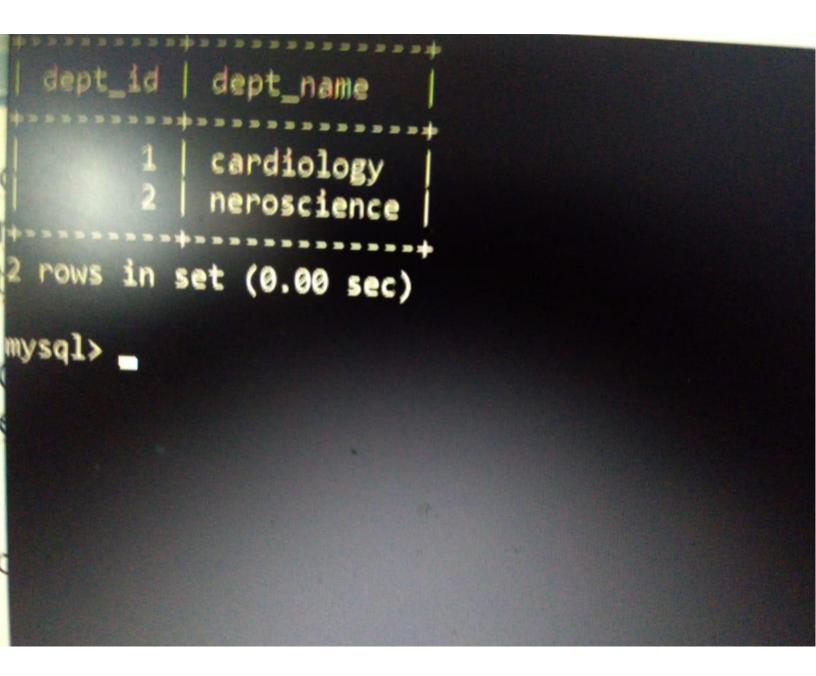
Q-1) Create a database for the Hospital Management System based on your ER. Create appropriate tables & relationships

- create database hospital;
- · use hospital;
- create table department (dept_id INT PRIMARY KEY NOT NULL, dept_name VARCHAR(40));
- create table doctor(doctor_id int NOT NULL, doctor_name varchar(40), dept_id int, FOREIGN KEY (dept_id) REFERENCES department(dept_id),PRIMARY KEY(doctor_id));alter table patient add admit_date DATE;
- Create table patient(id INT PRIMARY KEY NOT NULL, name VARCHAR(40), address VARCHAR(100), contact CHAR(10), doctor_id int not null,admit_date DATE,discharge_date DATE);
- alter table patient add FOREIGN KEY(doctor_id) REFERENCES doctor(doctor_id); Inserting data into tables;
- insert into department values(001, "cardiology");
- insert into department values(002, 'neuroscience");
- insert into doctor values(1, 'sanjeev singh",1);
- insert into doctor values(2, 'rahul singh', 1);
- insert into doctor values(3, 'harshvarshan singh',2);
- Insert into patient values(001, "sanjaeev singh", "Agra", 9876543211, 002, '2020-07-02', '2020-07-09');
- Insert into patient values (1, "akshay kumar", "Mumbai"
 "1234567892", 1, 2020-02-04, 2020-02-06);
- Insert into patient values (2, "salman khan ", "Mumbai" "1234567892", 2, 2020-02-08, 2020-02-09);
- Insert into patient values (1, "akshay kumar ", "Mumbai"
 "1234567892", 3, 2020-02-04, 2020-02-10);

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```
mysql> select * from doctor;
 doctor_id | doctor_name
                                   dept_id
              sanjeev singh
              rahul
          3
              harshvardhan singh
3 rows in set (0.00 sec)
mysql>
```



Q-2) Design a query to provide a list of doctors, which department they belong to and patients treated by them (if any).

Ans) Select doctor_name, dept.dept_name, pat.pat_name from doctor as doc inner join department as dept on dept.dep_id = doctor.dept_id inner join patient as pat on pat.doc_id = doc.doc_id;

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Q-3) Query to provide the count of patients discharged per day in the last week.

Ans) select count(*) as average from patients where DATE(discharge_date) between "2020-02-06" and "2020-02-10" group by discharge_date;