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 (dep\_id INT PRIMARY KEY NOT NULL , dep\_name VARCHAR(40));

• create table doctor( d\_id INT PRIMARY KEY NOT NULL, d\_name VARCHAR(40), dep\_id

INT, FOREIGN KEY (dep\_id) REFERENCES department(dep\_id));

• Create table patient(pat\_id INT PRIMARY KEY NOT NULL, pat\_name VARCHAR(40),

pat\_address VARCHAR(100) , pat\_contact CHAR(10), date\_admitted DATE, date\_discharged

DATE, doctor\_id int, FOREIGN KEY(doctor\_id) REFERENCES doctor(d\_id));

Inserting data into tables;

• insert into department(dep\_id, dep\_name) values(1, “dermatology”);

• insert into department values(2, “neurology”);

• insert into department values(3, “cardiology”);

• insert into doctor values(1, “Amit Bansal”, 1);

• insert into doctor values(2, “Yuvraj Singh”, 1);

• insert into doctor values(3, “Kulbhushan Yadav”, 2);

• insert into doctor values(4, “Gurunath Swami”, 3);

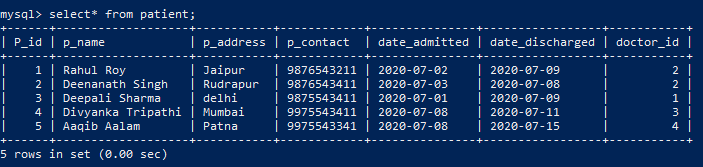
• Insert into patient values(1, “Rahul Roy”, “Jaipur”, 9876543211, 2, ‘2020-07-02','2020-07-09');

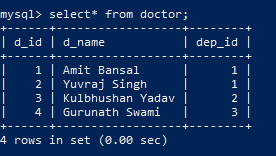
• Insert into patient values(2, "Deenanath singh", "Rudrapur", 9876543411, 2,'2020-07-03,'2020-07-08');

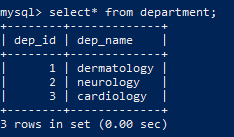
• Insert into patient values(3, "Deepali Sharma", "delhi", 9875543411, 1,'2020-07-01','2020-07-09');

• Insert into patient values(4, "Divyanka Tripathi", "Mumbai", 9975543411, 3, '2020-07-08','2020-07-11');

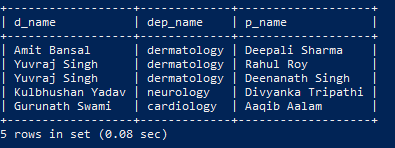
• Insert into patient values(5, "Aaqib Aalam", "Patna", 9975543341, 4, '2020-07-08','2020-07-15');







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 d\_name, dept.dep\_name, p.p\_name from doctor as doc inner join department as dept on dept.dep\_id=doc.dep\_id inner join patient as p on p.doctor\_id = doc.d\_id;

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

Ans) select count(\*) as per\_day\_discharges, date\_discharged from patient where DATE(date\_discharged) between "2020-07-07" and "2020-07-14" group by date\_discharged;

