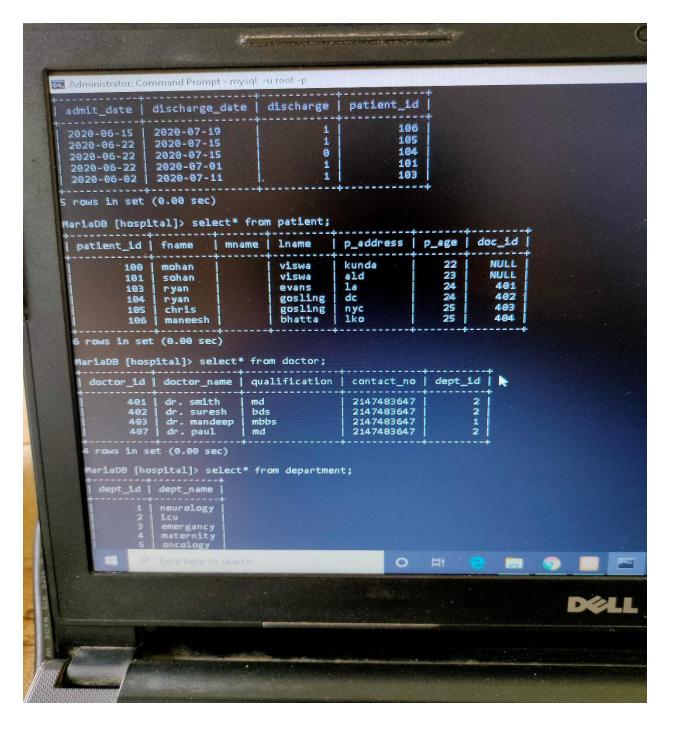
Assignment SQL

Setup:

```
C:\WINDOWS\system32>cd C:\xampp\mysql\bin
C:\xampp\mysql\bin>mysql -u root -p
MariaDB [(none)]> create database hospital
  ->;
Query OK, 1 row affected (0.02 sec)
use hospital
1. 1. Create a database for the Hospital Management System based on your ER. Create appropriate
tables & relationships.
create table patient(patient_id int primary key, fname varchar(20), mname varchar(20), lname
varchar(20), index p name(fname,mname,lname), p address varchar(30), p age int);
create table doctor(doctor_id int primary key, doctor_name varchar(20), qualification
varchar(20),contact no int, dept id int , foreign key(dept id) references department(dept id));
create table admit(admit_date date, discharge_date date, discharge boolean, patient_id int, foreign
key(patient_id) references patient(patient_id));
insert into patient values(100,"mohan","","viswa","kunda",22);
insert into patient values(101, "sohan", "", "viswa", "ald", 23);
alter table patient add doc_id int;
update patient set doc id=410 where patient id=100
update patient set doc id=411 where patient id=101
insert into patient values(104, "ryan", "", "gosling", "dc", 24, 402);
insert into patient values(105,"chris","","gosling","nyc",25,403);
insert into patient values(106, "maneesh", "", "bhatta", "lko", 25, 404);
```

```
insert into department values(01,"neurology");
insert into department values(01,"neurology");
insert into department values(02,"icu");
insert into department values(03,"emergancy");
insert into department values(04,"maternity");
insert into department values(05,"oncology");
insert into doctor values(401,"dr. smith", "md",777777777,2);
insert into doctor values(407,"dr. paul", "md",777777777,2);
insert into doctor values(403,"dr. mandeep", "mbbs",777777777,1);
insert into doctor values(402,"dr. suresh", "bds",8295144045,2);
insert into admit values(15-06-2020,18-07-2020,true,106);
update admit set admit_date=2020-06-15 where patient_id=106;
update admit set admit_date='2020-06-15' where patient_id=106;
update admit set discharge_date='2020-07-19' where patient_id=106;
insert into admit values('2020-06-22','2020-07-15',true,105);
insert into admit values('2020-06-22','2020-07-15',false,104);
insert into admit values('2020-06-22','2020-07-01',true,101);
insert into admit values('2020-06-02','2020-07-11',true,103);
```



```
[nospital]> update patient set doc_id=411 where patient_id=101;
Query OK, 1 row affected (0.28 sec)
Rows matched: 1 Changed: 1 Warnings: 0
MariaDB [hospital]> select* from patient;
  patient id
                          mname
                                   1name
                                             p_address |
                                                          p_age |
                                                                  doc_id
         100
               mohan
                                   Viswa
                                             kunda
         101
                                                             22
                                                                      410
               sohan
                                   viswa
                                             ald
                                                             23
         103
                ryan
                                                                      411
                                   evans
                                             la
                                                             24
         104
                                                                     401
               ryan
                                   gosling
                                             dc
                                                             24
         105
                                                                     402
               chris
                                   gosling
                                             nyc
                                                             25
         106
                                                                     403
               maneesh
                                   bhatta
                                             1ko
                                                             25
                                                                     404
6 rows in set (0.00 sec)
MariaDB [hospital]> select* from admit;
  admit_date
              discharge_date | discharge
                                             patient id
  2020-06-15
               2020-07-19
                                                     106
  2020-06-22
               2020-07-15
                                                     105
  2020-06-22
               2020-07-15
                                         0
                                                     104
  2020-06-22
               2020-07-01
                                                    101
               2020-07-11
  2020-06-02
                                                    103
  rows in set (0.00 sec)
 MariaDB [hospital]> select discharge_date, count(patient_id) as DisPatient from ad
```

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

MariaDB [hospital]> select doctor.doctor_name, doctor.doctor_id,department.dept_name,department.dept_id, patient.patient_id,patient.fname

- -> from doctor
- -> join department on doctor.dept_id=department.dept_id
- -> join patient on patient.doc_id=doctor.doctor_id;

```
MariaDB [hospital]> select doctor.doctor_name, doctor.doctor_id,department.dept_name,department.dept_id, patient.patient_id,patient.fname
    -> from doctor
    -> join department on doctor.dept_id=department.dept_id
    -> join patient on patient.doc_id=doctor.doctor_id;
  doctor_name | doctor_id | dept_name | dept_id | patient_id | fname |
                                                     103 ryan
                    401 | icu
                                        2
 dr. smith
                                                   104 ryan
                                           2
                    402 | icu
 dr. suresh
                                                     105 | chris
                    403 | neurology
                                           1
 dr. mandeep
3 rows in set (0.00 sec)
MariaDB [hospital]> select* from patient;
```

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

MariaDB [hospital] > select discharge_date, count(patient_id) as DisPatient from admit where discharge_date between '2020-07-11' and '2020-07-19' group by discharge_date;

