

Database Definition :

```
CREATE DATABASE HOSPITAL;
USE HOSPITAL;
CREATE TABLE DOCTOR(
    DOCTOR_ID INT      NOT NULL,
    DOCTOR_ADDRESS VARCHAR (100) ,
    DOCTOR_NAME VARCHAR (40)  NOT NULL,
    DEPT_ID INT,
    PRIMARY KEY (DOCTOR_ID)
);
```

```
CREATE TABLE PATIENT(
    PATIENT_ID INT      NOT NULL,
    PATIENT_AGE INT      NOT NULL,
    PGENDER VARCHAR(2),
    PADDRESS VARCHAR (50) ,
    PATIENT_NAME VARCHAR (40)  NOT NULL,
    DOCTOR_ID INT,
    DATE_OF_ADMISSION DATE,
    DATE_OF_DISCHARGE DATE,
    PRIMARY KEY (PATIENT_ID)
);
```

```
CREATE TABLE DEPARTMENT(
    DEPT_ID INT      NOT NULL,
    DEPT_NAME VARCHAR (30)  NOT NULL,
    DEPT_BUILDING VARCHAR(20),
    PRIMARY KEY (DEPT_ID)
);
```

DATA MANIPULATION:

```
INSERT INTO DOCTOR VALUES(102,'LUCKNOW','LALIT',23);
INSERT INTO DOCTOR VALUES(103,'DELHI','NEELAM',23);
INSERT INTO DOCTOR VALUES(100,'MUMBAI','SWATI',23);
INSERT INTO DOCTOR VALUES(105,'KOLKATA','GAUTAM',23);
INSERT INTO DOCTOR VALUES(104,'CHENNAI','LOHANI',25);
INSERT INTO DOCTOR VALUES(109,'BANGALORE','MODI',25);
```

```
INSERT INTO DEPARTMENT VALUES(23,'EMERGENCY','MAIN');
INSERT INTO DEPARTMENT VALUES(25,'OPD','SECONDARY');
```

```
INSERT INTO PATIENT(222,23,'F','LUCKNOW','ANURADHA',102,STR_TO_DATE('1-7-2020',
'%d-%m-%Y'),STR_TO_DATE('16-7-2020', '%d-%m-%Y'));
```

```
INSERT INTO PATIENT(225,25,'M','MUMBAI','SHYAM',102,STR_TO_DATE('3-7-2020',
'%d-%m-%Y'),STR_TO_DATE('18-7-2020', '%d-%m-%Y'));
```

```
INSERT INTO PATIENT(245,50,'M','LUCKNOW','RAJU',102,STR_TO_DATE('4-7-2020',
'%d-%m-%Y'),STR_TO_DATE('19-7-2020', '%d-%m-%Y'));
```

```
INSERT INTO PATIENT(124,55,'F','LUCKNOW','BABU
BHAIYA',104,STR_TO_DATE('2-7-2020', '%d-%m-%Y'),STR_TO_DATE('29-7-2020',
'%d-%m-%Y'));
```

```
INSERT INTO PATIENT(782,48,'M','LUCKNOW','TIWALI',104,STR_TO_DATE('8-7-2020',
'%d-%m-%Y'),STR_TO_DATE('23-7-2020', '%d-%m-%Y'));
```

QUERY 1ST:

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

```
SELECT DR.DOCTOR_NAME,DPT.DEPT_NAME,COUNT(P.PATIENT_NAME) FROM
PATIENT P RIGHT JOIN DOCTOR DR ON P.DOCTOR_ID=DR.DOCTOR_ID JOIN
DEPARTMENT DPT ON DR.DEPT_ID=DPT.DEPT_ID GROUP BY
DOCTOR_NAME,DEPT_NAME;
```

RESULT:

LALIT EMERGENCY 3
LOHANI OPD 2

QUERY:

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

```
SELECT DATE_OF_DISCHARGE,COUNT(PATIENT_NAME) from PATIENT where  
DATE_OF_DISCHARGE BETWEEN '2020-08-09' and '2020-08-16' GROUP BY  
DATE_OF_DEPARTURE;
```

RESULT:

0