

```
mysql> CREATE DATABASE HOSPITAL;  
Query OK, 1 row affected (0.23 sec)
```

```
mysql> SHOW DATABASES;  
+-----+  
| Database |  
+-----+  
| HOSPITAL |  
| information_schema |  
| mysql |  
| performance_schema |  
| sys |  
+-----+  
5 rows in set (0.00 sec)
```

```
mysql> USE HOSPITAL;  
Database changed
```

```
mysql> CREATE TABLE DEPARTMENTS(  
-> DEPARTMENT_ID INT NOT NULL,  
-> DEPARTMENT_NAME VARCHAR(40) NOT NULL,  
-> PRIMARY KEY(DEPARTMENT_ID)  
-> );
```

```
Query OK, 0 rows affected (1.50 sec)
```

```
mysql> CREATE TABLE DOCTORS(  
-> DOCTOR_ID INT NOT NULL,  
-> DOCTOR_NAME VARCHAR(40) NOT NULL,  
-> DOCTOR_ADDRESS VARCHAR(40),  
-> DOCTOR_SALARY INT NOT NULL,  
-> DEPARTMENT_ID INT NOT NULL,  
-> PRIMARY KEY (DOCTOR_ID),  
-> FOREIGN KEY (DEPARTMENT_ID) REFERENCES DEPARTMENTS (DEPARTMENT_ID)  
-> );
```

```
Query OK, 0 rows affected (1.59 sec)
```

```
mysql> CREATE TABLE PATIENTS(
-> PATIENT_ID INT NOT NULL,
-> PATIENT_NAME VARCHAR(40) NOT NULL,
-> PATIENT_CITY VARCHAR(40),
-> PATIENT_CONTACT CHAR(10) UNIQUE,
-> ADMIT_DATE DATE NOT NULL,
-> DISCHARGE_DATE DATE,
-> DOCTOR_ID INT NOT NULL,
-> PRIMARY KEY(PATIENT_ID),
-> FOREIGN KEY (DOCTOR_ID) REFERENCES DOCTORS (DOCTOR_ID)
-> );
Query OK, 0 rows affected (2.06 sec)
```

```
mysql> SELECT * FROM DEPARTMENTS;
```

DEPARTMENT_ID	DEPARTMENT_NAME
1	CARDIOLOGY
2	PHYSIOTHERAPY
3	MATERNITY

```
3 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM DOCTORS;
```

DOCTOR_ID	DOCTOR_NAME	DOCTOR_ADDRESS	DOCTOR_SALARY	DEPARTMENT_ID
1001	YATIN	DELHI	100000	2
1002	VAIBHAV	NULL	50000	3
1003	HRISHABH	MUMBAI	150000	2
1004	SHIKHAR	NULL	200000	1
1005	DIVYANSHU	BANGALORE	75000	3

```
5 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM PATIENTS;
```

PATIENT_ID	PATIENT_NAME	PATIENT_CITY	PATIENT_CONTACT	ADMIT_DATE	DISCHARGE_DATE	DOCTOR_ID
2001	VIKAS	DELHI	NULL	2020-10-22	2020-10-23	1001
2002	SUMERA	NULL	959999990	2020-10-21	2020-10-22	1004
2003	SUMERA	NULL	959999923	2020-10-21	2020-10-22	1002
2004	SIDRA	GURGAON	NULL	2020-10-19	NULL	1003
2005	ASJAD	NULL	999099981	2020-10-18	2020-10-20	1001
2006	ASHUTOSH	NULL	999989691	2020-10-17	2020-10-18	1002
2007	PRANJAL	GHAZIABAD	NULL	2020-10-16	NULL	1003
2008	HIMANSHU	NULL	999987991	2020-10-15	2020-10-16	1004
2009	RISHABH	AGRA	NULL	2020-10-14	2020-10-15	1005
2010	SANKET	BIHAR	NULL	2020-10-13	NULL	1001
2011	BHAVYA	NULL	999989951	2020-10-12	2020-10-13	1002

```
mysql> SELECT T.DOCTOR_ID, T.DOCTOR_NAME, T.DEPARTMENT_NAME, PATIENT_NAME
-> FROM (SELECT D.DOCTOR_ID, D.DOCTOR_NAME, DP.DEPARTMENT_NAME
-> FROM DOCTORS AS D
-> INNER JOIN DEPARTMENTS AS DP
-> ON D.DEPARTMENT_ID = DP.DEPARTMENT_ID)
-> AS T
-> INNER JOIN PATIENTS
-> ON T.DOCTOR_ID = PATIENTS.DOCTOR_ID;
```

DOCTOR_ID	DOCTOR_NAME	DEPARTMENT_NAME	PATIENT_NAME
1004	SHIKHAR	CARDIOLOGY	SUMERA
1004	SHIKHAR	CARDIOLOGY	HIMANSHU
1001	YATIN	PHYSIOTHERAPY	VIKAS
1001	YATIN	PHYSIOTHERAPY	ASJAD
1001	YATIN	PHYSIOTHERAPY	SANKET
1003	HRISHABH	PHYSIOTHERAPY	SIDRA
1003	HRISHABH	PHYSIOTHERAPY	PRANJAL
1002	VAIBHAV	MATERNITY	SUMERA
1002	VAIBHAV	MATERNITY	ASHUTOSH
1002	VAIBHAV	MATERNITY	BHAVYA
1005	DIVYANSHU	MATERNITY	RISHABH

```
mysql> SELECT DISCHARGE_DATE, COUNT(PATIENT_ID)
-> FROM PATIENTS
-> GROUP BY DISCHARGE_DATE
-> HAVING DATE(DISCHARGE_DATE) BETWEEN '2020-10-16' AND '2020-10-22';
```

DISCHARGE_DATE	COUNT(PATIENT_ID)
2020-10-22	2
2020-10-20	1
2020-10-18	1
2020-10-16	1