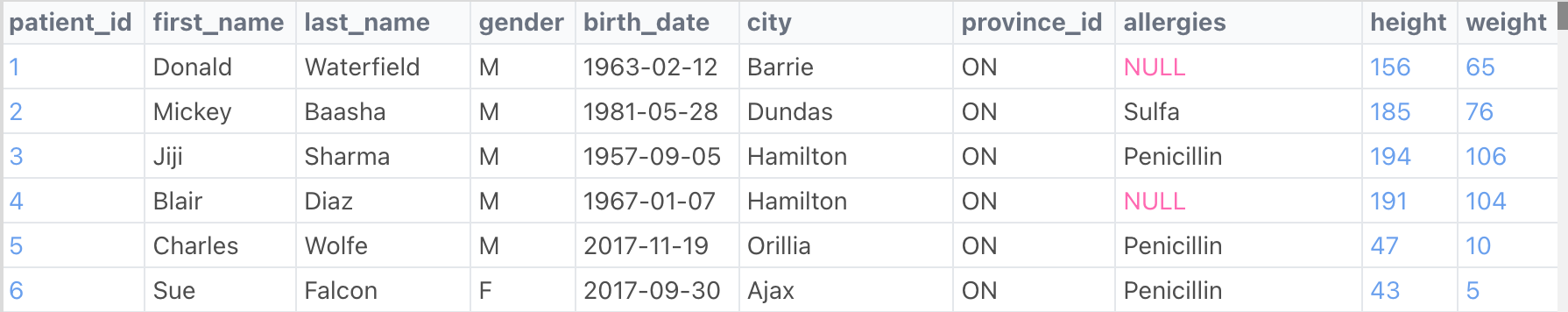
**Hospital Database hospital.db**

**Getting the patients table[1]**

**mysql> select \* from patients;**

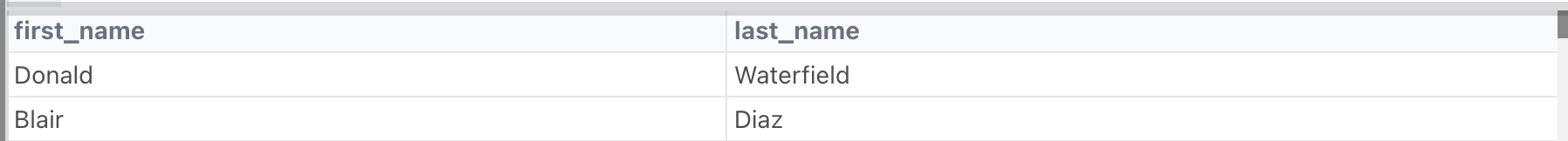


**1. Show the first and last names of patients who do not have allergies. (null)**

**mysql> select first\_name, last\_name, allergies**

**from patients**

**where allergies IS NULL;**

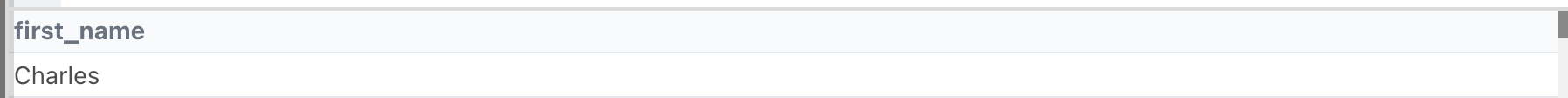


**2. Display all the names that start with the letter C**

**mysql> select first\_name**

**from patients**

**where first\_name like ‘C%’;**

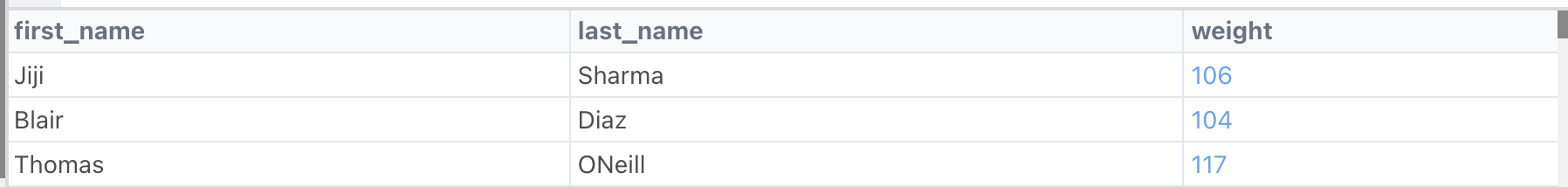
****

**3. Show the first name and last name of patients that weigh within the range of 100 to 120 (inclusive)**

**mysql> select first\_name, last\_name, weight**

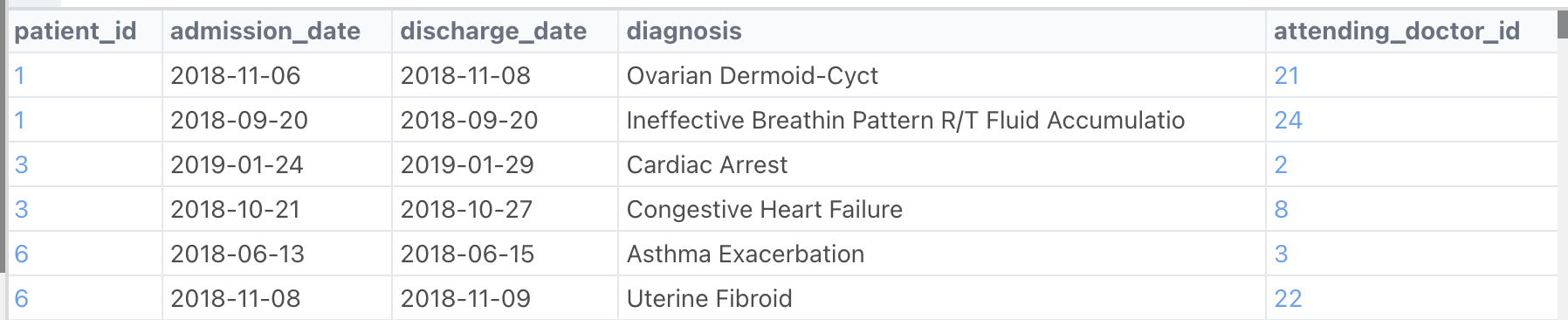
**from patients**

**where weight<=100 and weight>=100;**



**Getting the admissions table[2]**

**mysql> select \* from admissions;**

****

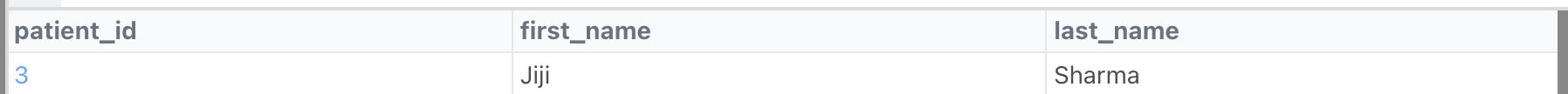
**4. Show patient\_id, first\_name, and last\_name from patients diagnosed with ‘Cardiac Arrest’.**

**mysql> select patients.patients\_id, first\_name, last\_name**

**from patients**

**join admissions on admissions.patient\_id = patients. patients\_id**

**where diagnosis= ‘Cardiac Arrest’;**

****

**Getting the province\_names table[3]**

**mysql> select \* from province\_names;**

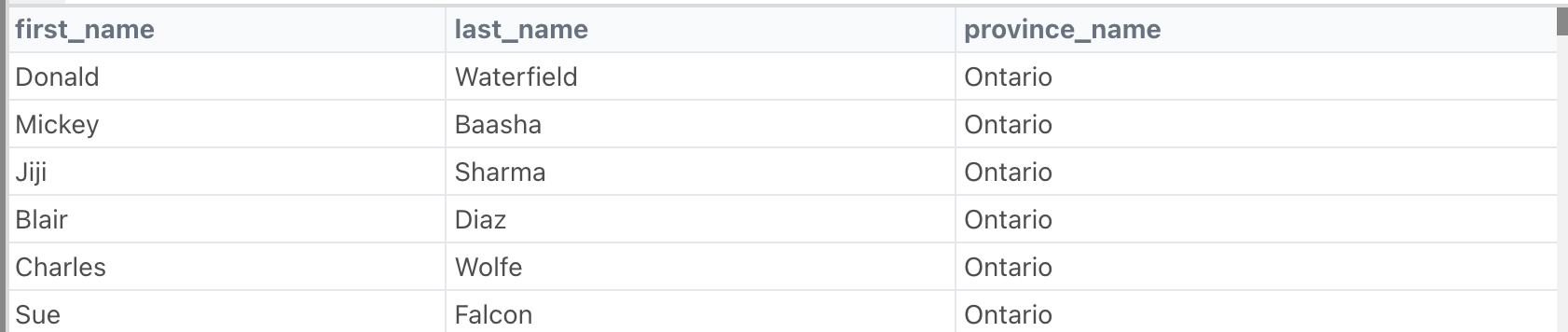
****

**5. Show each patient's first name, last name, and full province name of each patient.**

**mysql> select first\_name, last\_name, province\_name**

**from patients**

**join province\_name on province\_name.province\_id = patients.province\_id;**

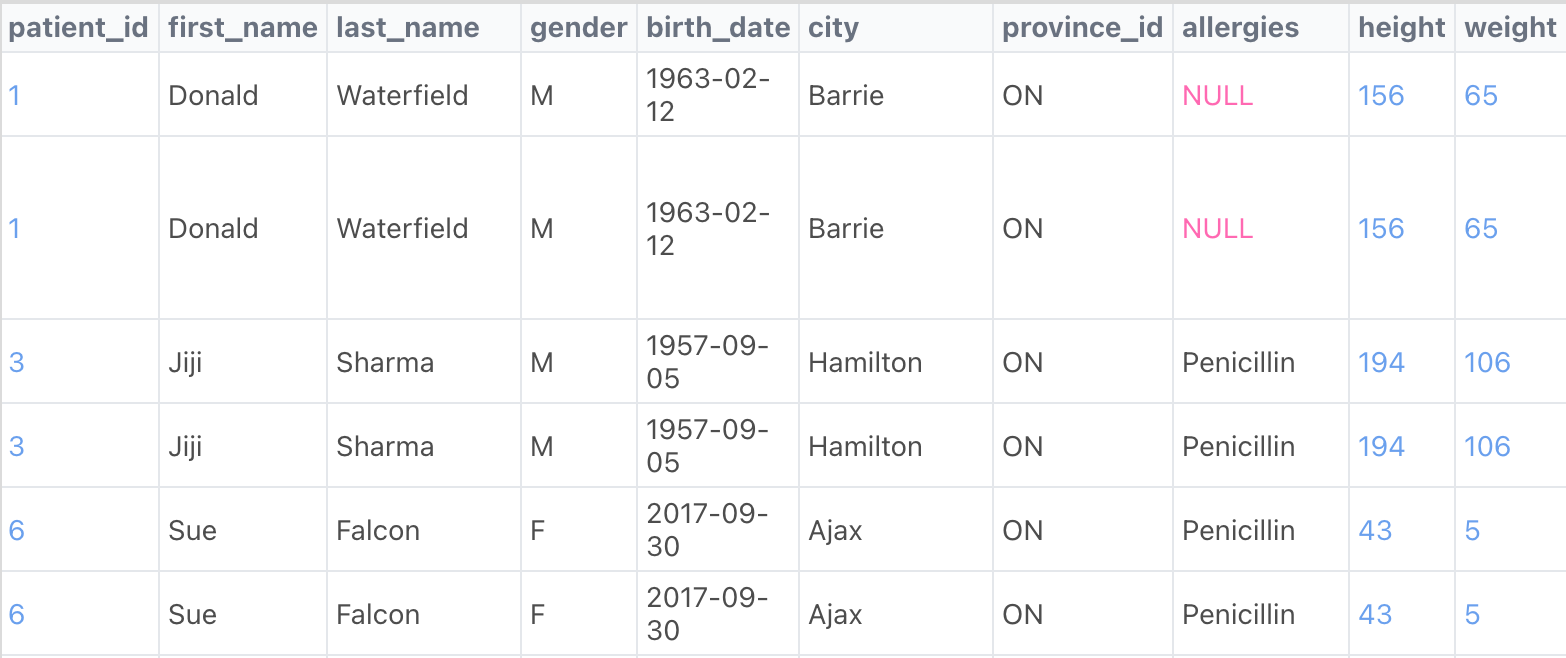
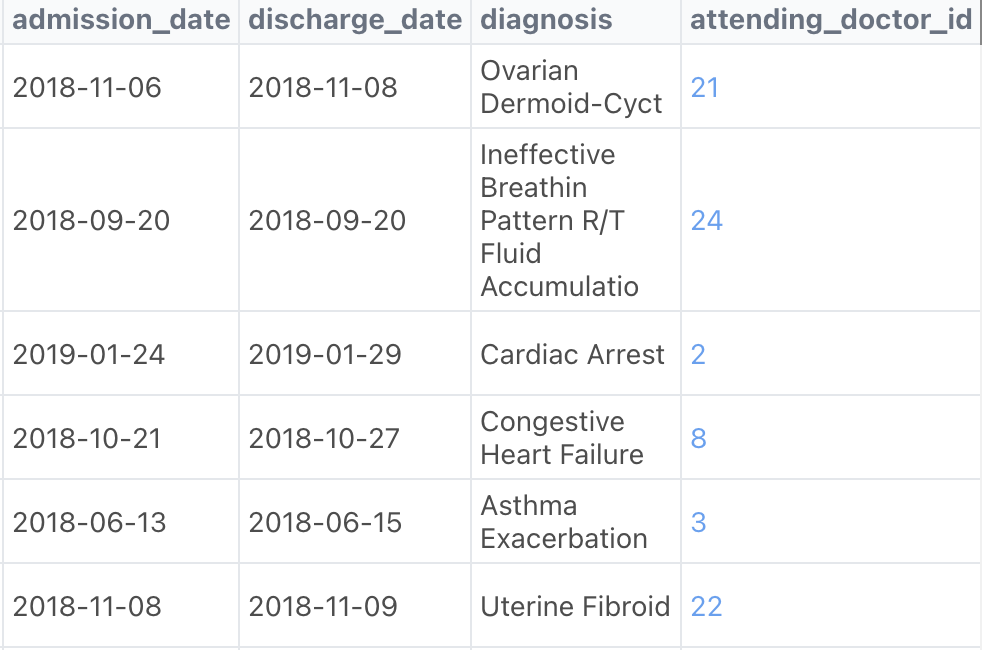
****

**6.Natural Join to join the table ‘patients’ and ‘admissions’ using the common field ‘patient\_id’:** (shows only the records with common patient\_id in both the tables)

**mysql> select \***

**from patients**

**Natural Join admissions;**

****

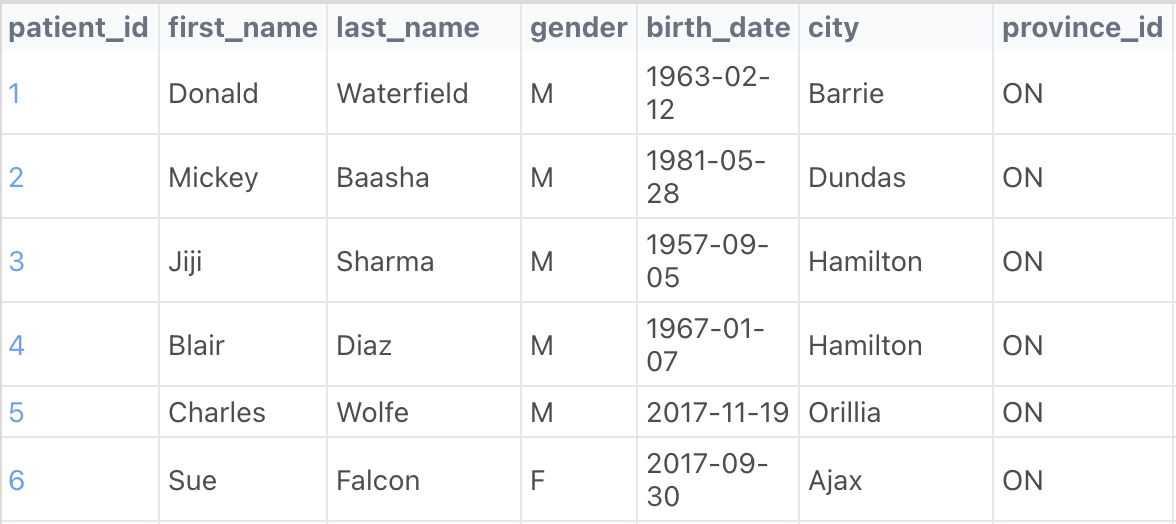
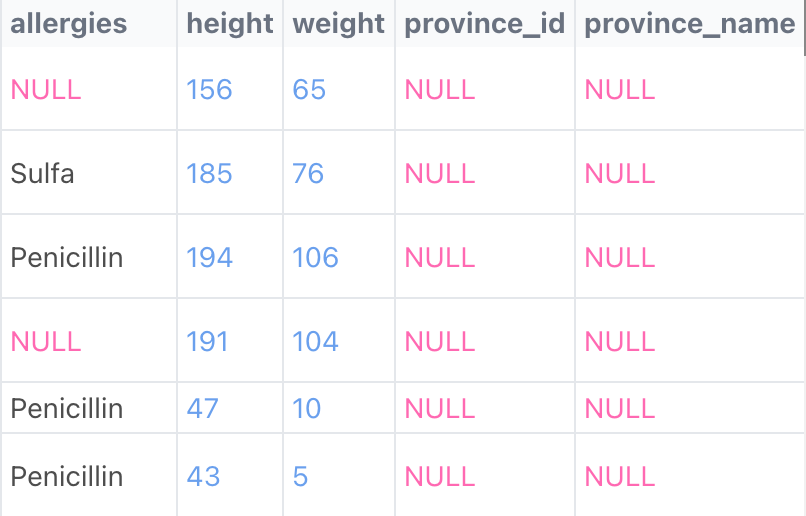
**7. Left Join to join the table ‘patients’ and ‘province\_names’ using the fields ‘patient-id’ in ‘patients’ and ‘province\_id’ in ‘province\_names’:**

(shows all the records of the left table joined with values of the right table and wherever the values are not present in the right table, it shows ‘null’)

**mysql> select \***

**from patients**

**LEFT OUTER JOIN province\_names on patients.patient\_id = province\_names.province\_id;**

****

**8. Show unique birth years from patients and order them by ascending.**

**mysql> select DISTINCT YEAR(birth\_date) AS birth\_year**

**from patients**

**Order By birth\_year;**

| **birth\_year** |
| --- |
| **1957** |
| **1963** |
| **1967** |
| **1981** |
| **2017** |

**9. Show the total amount of male patients and the total amount of female patients in the patients table.**

**Display the two results in the same row.**

**mysql> SELECT**

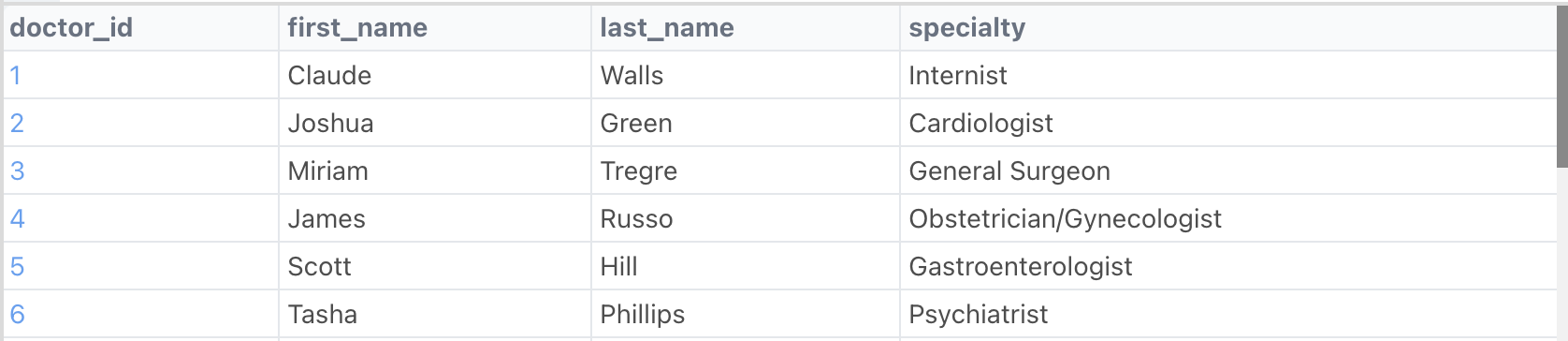
**(SELECT count(\*) FROM patients WHERE gender='M') AS male\_count,**

**(SELECT count(\*) FROM patients WHERE gender='F') AS female\_count;**

| **Male** | **Female** |
| --- | --- |
| **5** | **1** |

**Getting the doctors table[4]**

**mysql> select \* from doctors;**

****

**10. For each doctor, display their id, full name, and the first and last admission date they attended.**

**mysql> SELECT CONCAT(patients.first\_name, ' ', patients.last\_name) as patient\_name, diagnosis,**

**CONCAT(doctors.first\_name,' ',doctors.last\_name) as doctor\_name**

**FROM patients**

**JOIN admissions ON admissions.patient\_id = patients.patient\_id**

**JOIN doctors ON doctors.doctor\_id = admissions.attending\_doctor\_id;**

****