SQL PRACTICE QUESTIONS BASED ON HOSPITAL_DATA

1. Show first name, last name, and gender of patients whose gender is 'M'.
SELECT first_name, last_name, gender
FROM patients
WHERE gender = 'M';
2. Show first name and last name of patients who does not have allergies. (null).
SELECT first_name, last_name
FROM patients
WHERE allergies IS NULL;
3. Show first name of patients that start with the letter 'C'.
SELECT first_name
FROM patients
WHERE first_name LIKE 'C%';
 Show first name and last name of patients that weight within the range of 100 to 120 (inclusive).
SELECT first_name, last_name
FROM patients
WHERE weight between 100 AND 120;
5. Update the patients table for the allergies column. If the patient's allergies is null then replace it with 'NKA'.
UPDATE patients
SET allergies = 'NKA'
WHERE allergies IS NULL;
6. Show first name and last name concatenated into one column to show their full name.
SELECT
CONCAT(first_name, ' ', last_name) AS full_name
FROM patients;

7. Show first name, last name, and the full province name of each patient. Example: 'Ontario' instead of 'ON'.

Patients.first_name,

Patients.last_name,

Province_names.province_name

FROM patients

JOIN province_names ON province_names.province_id = patients.province_id;

8. Show how many patients have a birth_date with 2010 as the birth year.

SELECT COUNT(patients id) AS total patients

FROM patients

WHERE YEAR(birth_date) = 2010;

9. Show the first_name, last_name, and height of the patient with the greatest height.

SELECT first_name, last_name, height

FROM patients

ORDER BY height DESC LIMIT 1;

10. Show all columns for patients who have one of the following patient_ids: 1,45,534,879,1000

SELECT *

FROM patients

WHERE

patient_id IN (1, 45, 534, 879, 1000);

11. Show the total number of admissions.

SELECT count(patient_id) AS Total_number_of_admission

FROM admissions;

12. Show all the columns from admissions where the patient was admitted and discharged on the same day.

SELECT *

FROM admissions

WHERE admission_date = discharge_date;

13. Show the patient id and the total number of admissions for patient_id 579.

SELECT
 patient_id,
 COUNT(*) AS total_admissions
FROM admissions
WHERE patient_id = 579;

14. Based on the cities that our patients live in, show unique cities that are in province_id 'NS'.

SELECT DISTINCT(city) AS unique_cities

FROM patients

WHERE province_id = 'NS';

15. Write a query to find the first_name, last name and birth date of patients who has height greater than 160 and weight greater than 70.

SELECT first_name, last_name, birth_date FROM patients

WHERE height > 160 AND weight > 70;

16. Write a query to find list of patients first_name, last_name, and allergies where allergies are not null and are from the city of 'Hamilton'.

SELECT

first_name, last_name, allergies

FROM patients

WHERE

city = 'Hamilton' AND allergies IS NOT NULL;