USE sql\_tasks;

SELECT \* FROM insurance;

-- 1. Show records of 'male' patient from 'southwest' region.

SELECT \* FROM insurance

WHERE gender = 'male' AND region = 'southwest';

-- 2. Show all records having bmi in range 30 to 45 both inclusive.

SELECT \* FROM insurance

WHERE bmi BETWEEN 30 AND 45;

-- 3. Show minimum and maximum bloodpressure of diabetic patient who smokes.

-- Make column names as MinBP and MaxBP respectively.

SELECT MIN(bloodpressure) AS 'MinBP',

MAX(bloodpressure) AS 'MaxBP'

FROM insurance

WHERE diabetic = 'Yes' AND smoker = 'Yes';

-- 4. Find no of unique patients who are not from southwest region.

SELECT COUNT(DISTINCT(PatientID)) FROM insurance

WHERE region <> 'southwest';

-- 5. Total claim amount from male smoker.

SELECT SUM(claim)

FROM insurance

WHERE gender = 'male';

-- 6. Select all records of south region.

SELECT \* FROM insurance

WHERE region LIKE 'south%';

-- 7. No of patient having normal blood pressure. Normal range[90-120]

SELECT COUNT(\*) FROM insurance

WHERE bloodpressure BETWEEN 90 AND 120;

-- 8. No of patient below 17 years of age having normal blood pressure as per below formula -

-- BP normal range = 80+(age in years × 2) to 100 + (age in years × 2)

-- Note: Formula taken just for practice, don't take in real sense.

SELECT COUNT(\*) FROM insurance

WHERE age < 17

AND (bloodpressure BETWEEN 80+(age \* 2) AND 100 + (age \* 2));

-- 9. What is the average claim amount for non-smoking female patients

-- who are diabetic?

SELECT AVG(claim) FROM insurance

WHERE gender = 'female'

AND smoker = 'No';

-- 10. Write a SQL query to update the claim amount for the patient

-- with PatientID = 1234 to 5000.

UPDATE insurance SET claim = 5000

WHERE PatientID = 1234;

SELECT \* FROM insurance WHERE PatientID = 1234;

-- 11. Write a SQL query to delete all records for patients

-- who are smokers and have no children.

DELETE FROM insurance

WHERE smoker = 'Yes' AND children = 0;