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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';
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-- 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
```