**1. Which SQL statement is used to modify existing data in a table?**

**Answer**: B) UPDATE

**2. What keyword is used to sort the result set in SQL?**

**Answer**: B) ORDER BY

**3. Write a query to select the names and insurance ids of all patients in the Patient table.**

SELECT name, insurance\_id

FROM Patient;

**4. How would you retrieve the details of doctors from the Physician table whose position is ‘Surgical Attending Physician’?**

SELECT \*

FROM Physician

WHERE position = 'Surgical Attending Physician';

**5. Write a query to find the total number of patients in the Patient table.**

SELECT COUNT(\*) AS total\_patients

FROM Patient;

**6. What is the primary affiliated physician for each department? (Hint: use Physician, Department, Affiliated\_With tables)**

SELECT Department.name AS department\_name, Physician.name AS primary\_physician

FROM Department

JOIN Affiliated\_With ON Department.department\_id = Affiliated\_With.department\_id

JOIN Physician ON Affiliated\_With.physician\_id = Physician.physician\_id

WHERE Affiliated\_With.primary\_affiliation = 1;

**7. How many patients are assigned to each physician in the Appointment table?**

SELECT physician\_id, COUNT(patient\_id) AS total\_patients

FROM Appointment

GROUP BY physician\_id;

**8. Write a query to list all appointments along with the names of the patients and their doctors.**

SELECT Appointment.appointment\_id, Patient.name AS patient\_name, Physician.name AS doctor\_name

FROM Appointment

JOIN Patient ON Appointment.patient\_id = Patient.patient\_id

JOIN Physician ON Appointment.physician\_id = Physician.physician\_id;

**9. Write a query to find the names of patients who have more than one appointment.**

SELECT Patient.name

FROM Appointment

JOIN Patient ON Appointment.patient\_id = Patient.patient\_id

GROUP BY Patient.patient\_id

HAVING COUNT(Appointment.appointment\_id) > 1;

**10. How would you find the name of the patient and the medication name that is given to them? (Hint: use Patient, Prescribes, Medication tables)**

SELECT Patient.name AS patient\_name, Medication.name AS medication\_name

FROM Prescribes

JOIN Patient ON Prescribes.patient\_id = Patient.patient\_id

JOIN Medication ON Prescribes.medication\_id = Medication.medication\_id;