Questions Query

1. Find all the patients who have the appointment "Pending".

SELECT p.First_name,p.Last_name,a.App_date,a.App_Status

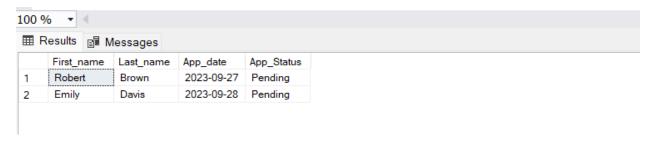
FROM Patients as p

JOIN

Appointments as a

ON p.Patient_id=a.Patient_id

WHERE a.App_Status='Pending'



2. Which patients visited Cardiologist?

SELECT p.First_name,p.Last_name,a.App_date,d.Specialization

FROM Patients p

JOIN

Appointments a

ON p.Patient_id=a.Patient_id

JOIN

Doctors d

ON d.Doctor_id=a.Doctor_id

WHERE d.Specialization = 'Cardiologist'



3. Show all patients who were prescribed "Ibuprofen".

SELECT p.First_name,p.Last_name,mr.Prescription

FROM Patients p

JOIN

Medical_records mr

ON p.Patient_id=mr.Patient_id

WHERE mr.Prescription='Ibuprofen'



4. List all completed appointments with patient name and doctors name.

SELECT p.First_name,p.Last_name,a.App_date,d.First_name,d.Last_name

FROM Patients p

JOIN

Appointments a

ON p.Patient_id=a.Patient_id

JOIN

Doctors d

ON a.Doctor_id=d.Doctor_id

WHERE a.App_Status='Completed'



5. Find the next available appointment for Dr. Alice Taylor.

SELECT a.App_date,a.App_time

FROM Appointments a

JOIN

Doctors d

ON a.Doctor_id=d.Doctor_id

WHERE d.First_name='Alice' AND d.Last_name='Taylor' AND a.App_Status='Pending'

ORDER BY a.App_date,a.App_time

6. How many doctors are there in each department?

SELECT dpt.Dept_name,COUNT(d.Doctor_id) AS Doctors

FROM Deapartments dpt

JOIN

Doctors d

ON dpt.Dept_id=d.Dept_id

GROUP BY dpt.Dept_name

ORDER BY dpt.Dept_name



7. Find the doctor who attended the most patients.

SELECT TOP 1 d.First_name,d.Last_name,COUNT(a.Patient_id) AS Patient_count

FROM Appointments a

JOIN

Doctors d

ON a.Doctor_id=d.Doctor_id

GROUP BY d.First_name,d.Last_name

ORDER BY Patient_count DESC



8. List all bills that are unpaid and the total amount due.

SELECT p.First_name,p.Last_name,b.Bill_id,SUM(b.Total_amount) AS Due_Amount

FROM Billing b

JOIN

Patients p

ON b.Patient_id=p.Patient_id

WHERE b.Payment_status='Unpaid'

GROUP BY p.First_name,p.Last_name,b.Bill_id

ORDER BY Due_Amount



9. Calculate the total revenue generated from paid bills.

SELECT SUM(Total_amount) AS Total_Revenue

FROM Billing

WHERE Payment_status='Paid'



10. Show the diagnosis and treatment details for patient 'John Doe'.

SELECT p.First_name,p.Last_name,mr.Diagnosis,mr.Treatment

FROM Medical_records mr

JOIN

Patients p

ON mr.Patient_id=p.Patient_id

WHERE p.First_name='John' AND p.Last_name='Doe'



11. Which doctors have diagnosed 'Hypertension'?

SELECT DISTINCT d.First_name, d.Last_name, mr.Diagnosis

FROM Medical_records mr

JOIN

Doctors d

ON mr.Doctor_id=d.Doctor_id

WHERE mr.Diagnosis='Hypertension'



12. List all available rooms with their type and department.

SELECT r.Room_no,r.Room_type,dpt.Dept_name

FROM Rooms r

JOIN

Deapartments dpt

ON r.Dept_id=dpt.Dept_id

WHERE r.Availability_status='Available'



13. Which departments have staff members with the role of 'Nurse'?

SELECT s.Staff_id,s.First_name,s.Last_name,s.Staff_Role,dpt.Dept_name

FROM Staff s

JOIN

Deapartments dpt

ON s.Dept_id=dpt.Dept_id

WHERE s.Staff_Role='Nurse'



14. List all patients who had an MRI test.

SELECT lt.Test_name,p.First_name,p.Last_name

FROM Lab_Tests It

JOIN

Patients p

ON lt.Patient_id=p.Patient_id

WHERE It.Test_name='MRI'



15. Find all test results for patient 'Jane Smith'.

SELECT lt.Test_name,lt.Test_Description,tr.Result,tr.Test_date

FROM Test_Results tr

JOIN

Lab_Tests It

ON lt.Test_id=tr.Test_id

JOIN

Patients p

ON tr.Patient_id=p.Patient_id

WHERE p.First_name='Jane' AND p.Last_name='Smith'



16. Which patient has spent the most money on their bills?

SELECT TOP 1 p.Patient_id,p.First_name,p.Last_name,SUM(b.Total_amount) AS Total_Spent

FROM Billing b

JOIN

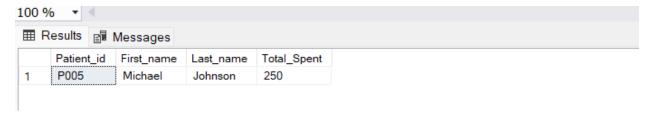
Patients p

ON b.Patient id=p.Patient id

WHERE b.Payment_status='Paid'

GROUP BY p.Patient_id,p.First_name,p.Last_name

ORDER BY Total_Spent DESC



17. What is the average cost of medication prescribed by each doctor?

SELECT d.Doctor_id,d.First_name,d.Last_name,AVG(m.Cost) AS Avg_Cost

FROM Medications m

JOIN

Doctors d

ON M.Doctor_id=d.Doctor_id

GROUP BY d.Doctor_id,d.First_name,d.Last_name



18. List all tests performed by a specific doctor ('Dr. David Wilson').

 ${\tt SELECT\ lt.Test_id,lt.Test_name,lt.Test_Description}$

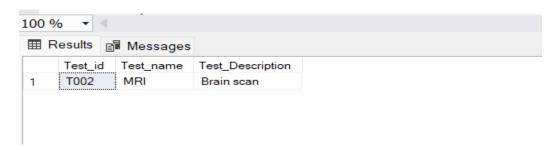
FROM Lab_Tests It

JOIN

Doctors d

ON lt.Doctor_id=d.Doctor_id

WHERE d.First_name='David' AND d.Last_name='Wilson'



19. Find patients who were prescribed medication that costs more than \$5.

SELECT p.Patient_id,p.First_name,p.Last_name,m.Med_name,m.Cost

FROM Medications m

JOIN

Patients p

ON m.Patient_id=p.Patient_id

WHERE m.Cost>5

