

1. Show patient visit trends over the past 3 years by year, month, and department. Further break this data down by gender and age group.

SELECT

YEAR(v.visit\_date) AS year,

MONTH(v.visit\_date) AS month,

departmentname AS department,

p.gender,

CASE

WHEN TIMESTAMPDIFF(YEAR, p.dob, v.visit\_date) < 18 THEN 'Child'

WHEN TIMESTAMPDIFF(YEAR, p.dob, v.visit\_date) BETWEEN 18 AND 60 THEN 'Adult'

ELSE 'Senior'

END AS age\_group,

COUNT(\*) AS visits

FROM visits v

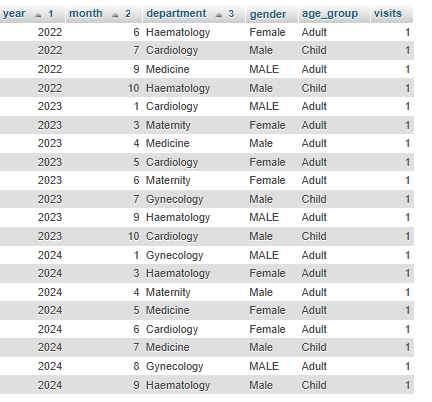
JOIN patient p ON v.patient\_id = p.patientid

JOIN department d ON v.department\_id = d.departmentid

WHERE v.visit\_date >= DATE\_SUB(CURDATE(), INTERVAL 3 YEAR)

GROUP BY year, month, department, gender, age\_group

ORDER BY year, month, department;



1. Identify medications supplied by a specific supplier that were used between two given dates, and list the patients who were prescribed those medications.

SELECT

DISTINCT p.patientid,

p.patientname,

pr.item\_code,

m.medication\_name,

pr.prescription\_date

FROM

prescriptions pr

JOIN

medications m ON pr.item\_code = m.item\_code

JOIN

suppliers s ON m.supplier\_id = s.supplier\_id

JOIN

patient p ON pr.patient\_id = p.patientid

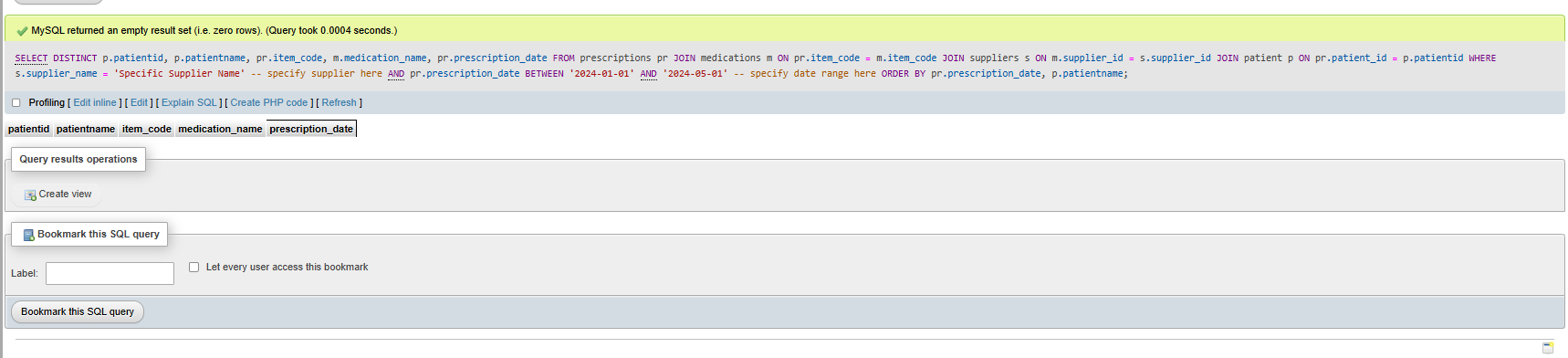
WHERE

s.supplier\_name = 'Specific Supplier Name' -- specify supplier here

AND pr.prescription\_date BETWEEN '2024-01-01' AND '2024-05-01' -- specify date range here

ORDER BY

pr.prescription\_date, p.patientname;



1. Find the top 2 departments by revenue generated in the past year.

SELECT

department\_id,

SUM(amount) AS total\_revenue

FROM

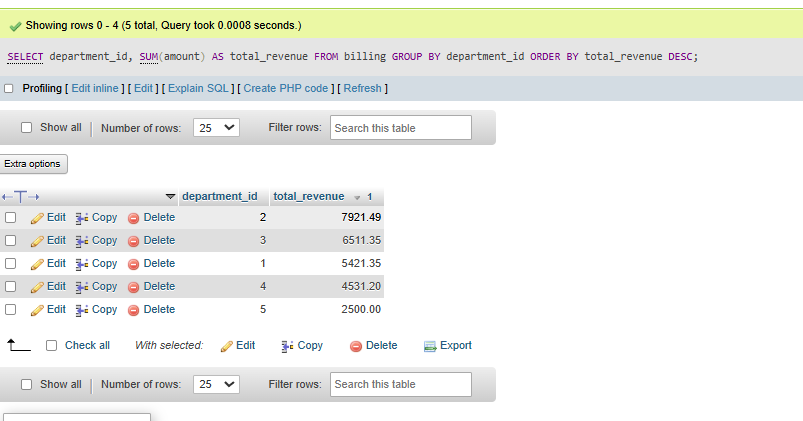
billing

GROUP BY

department\_id

ORDER BY

total\_revenue DESC;



1. Find the top 2 doctors by number of patients seen in the past year.

SELECT

d.doctorname,

COUNT(DISTINCT v.patient\_id) AS patients\_seen

FROM

visits v

JOIN

doctor d ON v.doctor\_id = d.doctorid

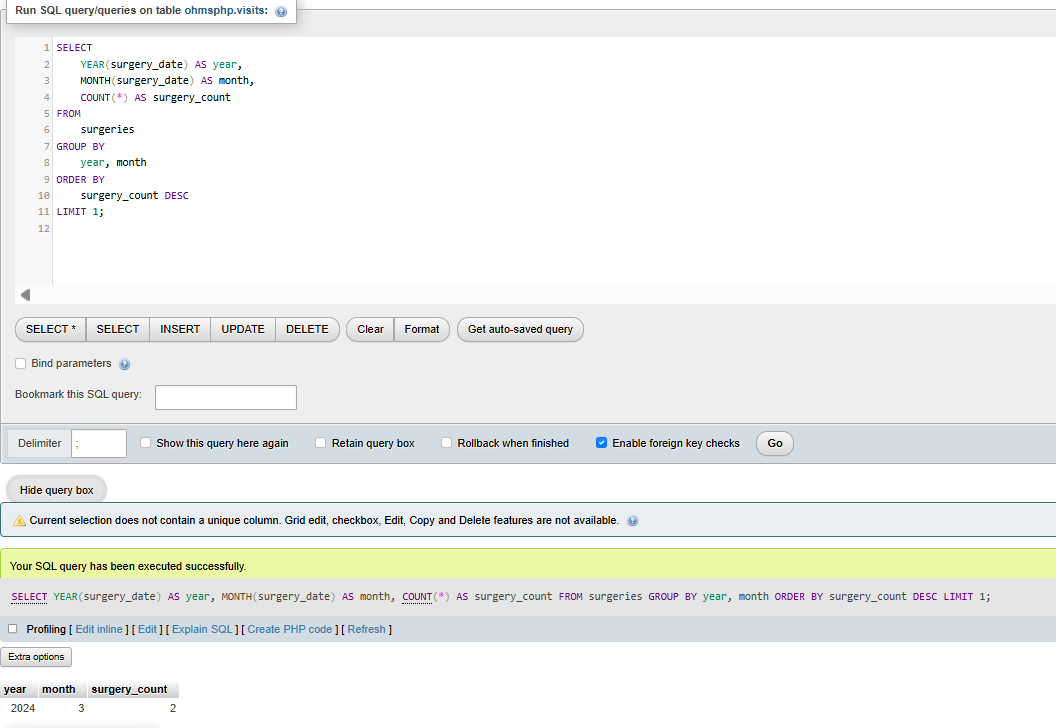
WHERE

v.visit\_date >= DATE\_SUB(CURDATE(), INTERVAL 5 YEAR)

GROUP BY

d.doctorname

LIMIT 2;

1. In what months are the highest number of surgeries conducted?
2. Identify the supplier whose items stayed in inventory the longest on average.

