**Bài 1:**

1. SELECT DISTINCT CONCAT(e.first\_name, e.last\_name) AS employee\_name, d.department\_name, r.role\_name FROM employees e JOIN departments d ON e.department\_id = d.department\_id JOIN employeeroles r ON e.role\_id = r.role\_id;
2. SELECT department\_name FROM departments;
3. SELECT DISTINCT CONCAT(e.first\_name, e.last\_name) AS employee\_name, d.department\_name, r.role\_name FROM employees e JOIN departments d ON e.department\_id = d.department\_id JOIN employeeroles r ON e.role\_id = r.role\_id WHERE e.role\_id = 3;
4. SELECT DISTINCT CONCAT(e.first\_name, e.last\_name) AS employee\_name, r.role\_name, d.department\_name FROM employees e JOIN departments d ON e.department\_id = d.department\_id JOIN employeeroles r ON e.role\_id = r.role\_id WHERE d.department\_name = 'HR';
5. SELECT DISTINCT CONCAT(e.first\_name, e.last\_name) AS employee\_name, d.department\_name FROM employees e JOIN departments d ON e.department\_id = d.department\_id JOIN employeeroles r ON e.role\_id = r.role\_id WHERE r.role\_name = 'Manager';
6. SELECT d.department\_name, COUNT(e.employee\_id) AS employee\_count FROM employees e JOIN departments d ON e.department\_id = d.department\_id GROUP BY d.department\_name;
7. SELECT DISTINCT CONCAT(e.first\_name, e.last\_name) AS employee\_name, r.role\_name FROM employees e JOIN employeeroles r ON e.role\_id = r.role\_id WHERE e.employee\_id = 2;
8. SELECT DISTINCT CONCAT(first\_name, last\_name) AS employee\_name FROM employees WHERE first\_name LIKE 'J%';
9. SELECT DISTINCT CONCAT(e.first\_name, e.last\_name) AS employee\_name, d.department\_name FROM employees e JOIN departments d ON e.department\_id = d.department\_id JOIN employeeroles r ON e.role\_id = r.role\_id WHERE r.role\_name = 'Manager';
10. SELECT department\_id, COUNT(employee\_id) AS employee\_count FROM employees GROUP BY department\_id ORDER BY employee\_count DESC;
11. SELECT DISTINCT CONCAT(e.first\_name,' ',e.last\_name) AS employee\_name, r.role\_name FROM employees e JOIN employeeroles r ON e.role\_id = r.role\_id WHERE e.first\_name = 'Emily' AND e.last\_name = 'Williams';
12. SELECT DISTINCT CONCAT(e.first\_name,' ',e.last\_name) AS employee\_name, d.department\_name FROM employees e JOIN departments d ON e.department\_id = d.department\_id WHERE d.department\_name LIKE 'M%';
13. SELECT DISTINCT CONCAT(e.first\_name, ' ', e.last\_name) AS employee\_name, d.department\_name, r.role\_name FROM employees e JOIN departments d ON e.department\_id = d.department\_id JOIN employeeroles r ON e.role\_id = r.role\_id WHERE r.role\_name = 'Director';
14. SELECT CONCAT(e.first\_name,' ', e.last\_name) AS employee\_name, d.department\_name FROM employees e JOIN departments d ON e.department\_id = d.department\_id WHERE d.department\_name IN ('IT', 'Finance');
15. SELECT CONCAT(e.first\_name,' ', e.last\_name) AS employee\_name, d.department\_name, department\_counts.employee\_count FROM employees e JOIN departments d ON e.department\_id = d.department\_id

JOIN (

SELECT department\_id, COUNT(employee\_id) AS employee\_count

FROM employees

GROUP BY department\_id

ORDER BY employee\_count DESC

LIMIT 1)

AS department\_counts ON e.department\_id = department\_counts.department\_id;

**Bài 2:**

1. SELECT b.book\_id, b.title, a.author\_name, p.publisher\_name, b.publication\_year FROM books b JOIN authors a ON b.author\_id = a.author\_id JOIN publishers p ON b.publisher\_id = p.publisher\_id;
2. SELECT author\_id, author\_name FROM authors;
3. SELECT b.book\_id, b.title, a.author\_name, p.publisher\_name, b.publication\_year FROM books b JOIN authors a ON b.author\_id = a.author\_id JOIN publishers p ON b.publisher\_id = p.publisher\_id WHERE b.title = '1984';
4. SELECT b.book\_id, b.title, b.publication\_year, p.publisher\_name FROM books b JOIN authors a ON b.author\_id = a.author\_id JOIN publishers p ON b.publisher\_id = p.publisher\_id WHERE a.author\_name = 'Harper Lee';
5. SELECT b.book\_id, b.title, a.author\_name, b.publication\_year, p.publisher\_name FROM books b JOIN authors a ON b.author\_id = a.author\_id JOIN publishers p ON b.publisher\_id = p.publisher\_id WHERE p.publisher\_name LIKE '%D%';
6. SELECT a.author\_name FROM books b JOIN authors a ON b.author\_id = a.author\_id WHERE b.title = 'Pride and Prejudice';
7. SELECT b.title, b.publication\_year FROM books b JOIN publishers p ON b.publisher\_id = p.publisher\_id WHERE p.publisher\_name = 'Publisher A';
8. SELECT b.title, a.author\_name, p.publisher\_name, b.publication\_year FROM books b JOIN authors a ON b.author\_id = a.author\_id JOIN publishers p ON b.publisher\_id = p.publisher\_id WHERE b.genre = 'Science Fiction' AND b. publication\_year > 1950; (trong bảng thiếu phần thể loại)
9. SELECT p.publisher\_name, COUNT(b.book\_id) AS book\_count FROM Books b JOIN Publishers p ON b.publisher\_id = p.publisher\_id GROUP BY p.publisher\_name;
10. SELECT a.author\_name, COUNT(b.book\_id) AS book\_count FROM Books b JOIN Authors a ON b.author\_id = a.author\_id GROUP BY a.author\_name ORDER BY book\_count DESC;
11. SELECT a.author\_name, COUNT(b.book\_id) AS book\_count FROM Books b JOIN Authors a ON b.author\_id = a.author\_id WHERE b.publication\_year > 1900 GROUP BY a.author\_name;
12. SELECT b.title, p.publisher\_name FROM Books b JOIN Publishers p ON b.publisher\_id = p.publisher\_id WHERE b.title LIKE 'The Great%';
13. SELECT b.title, a.author\_name FROM Books b JOIN Authors a ON b.author\_id = a.author\_id WHERE b.publication\_year > 1950;
14. SELECT b.title, p.publisher\_name FROM Books b JOIN Publishers p ON b.publisher\_id = p.publisher\_id WHERE b.title LIKE '%Mockingbird';
15. SELECT b.title, a.author\_name FROM Books b JOIN Authors a ON b.author\_id = a.author\_id WHERE b.publication\_year > 2000;