Bài 6

Câu a

```
SELECT first_name, last_name , salary, salary*0.15 AS new FROM employees;
```

Câu b

```
SELECT SUM(salary) FROM employees;
```

Câu c

```
SELECT MAX(salary), MIN(salary),ROUND(AVG(salary),2), COUNT(employee_id) AStongsoluongnv
 FROM employees;
```

Câu d

```
SELECT DISTINCT e.job_id, j.job_title FROM employees AS e, jobs AS j WHERE e.job_id= j.job_id
```

Câu e

```
SELECT MAX(e.salary) FROM employees AS e, jobs  AS j WHERE j.job_title = 'Programmer';
```

Câu f

```
SELECT MAX(salary) - MIN(salary) FROM employees;
```

Câu g

```
SELECT manager_id, first_name, last_name FROM employees;
```

Câu h

```
SELECT manager_id, min(salary) FROM employees group by manager_id;
```

Câu i

```
SELECT d.department_id, d.department_name, SUM(e.salary) AS total_salary
FROM departments d
JOIN employees e ON d.department_id = e.department_id
GROUP BY d.department_id, d.department_name
HAVING SUM(e.salary) > 30000
ORDER BY d.department_id;
```

Câu j

```
SELECT e.first_name, e.last_name, e.salary, j.job_title
FROM employees e
JOIN jobs j ON e.job_id = j.job_id
WHERE j.job_title NOT IN ('Programmer', 'Shipping Clerk')
AND e.salary NOT IN (4500.00, 10000.00, 15000.00)
GROUP BY e.first_name, e.last_name, e.salary,j.job_title;
```

Câu k

```
SELECT d.department_name, AVG(e.salary) AS avg_salary
FROM departments AS d
JOIN employees AS e ON d.department_id = e.department_id
GROUP BY d.department_name
HAVING COUNT(e.employee_id) > 5;
```

Câu l

```
SELECT j.job_title, AVG(e.salary) as avg
FROM employees e
JOIN jobs j ON e.job_id = j.job_id
GROUP BY j.job_title;
```

Câu m

```
SELECT e_manager.first_name, e_manager.last_name, d.department_name, l.city
FROM employees e_manager
JOIN employees e_employee ON e_manager.employee_id = e_employee.manager_id
JOIN departments d ON e_employee.department_id = d.department_id
JOIN locations l ON d.location_id = l.location_id;
```

Câu n

```
SELECT  e.first_name ,e.last_name AS employee_name, j.job_title, e.salary – j.min_salary AS diff
FROM employees AS e
JOIN jobs AS j ON e.job_id = j.job_id
ORDER BY ABS(diff) DESC
LIMIT 3;
```

BÀI TẬP BỔ SUNG

Câu a

```
SELECT UPPER(SUBSTRING(first_name FROM 1 FOR 3)) AS first_name_initials
FROM employees;
```

Câu b

```
SELECT TRIM(first_name) AS first_name_trimmed FROM employees;
```

Câu c

```
SELECT  first_name, last_name,   LENGTH(first_name || last_name) AS full_name_length
FROM employees;
```

Câu d

```
SELECT first_name,   last_name,   ROUND(salary / 12.0, 2) AS monthly_salary
FROM employees;
```

Câu e

```
SELECT first_name, last_name, salary FROM employees
WHERE salary BETWEEN 10000 AND 15000;
```

Câu f

```
SELECT first_name, last_name, department_id FROM employees
WHERE department_id IN (3, 10)
ORDER BY department_id;
```

Câu g

```
SELECT first_name, last_name, department_id, salary
FROM employees
WHERE department_id IN (3, 10)
AND salary NOT BETWEEN 10000 AND 15000;
```

Câu h

```
SELECT first_name FROM employees
WHERE first_name LIKE '%c%' AND first_name LIKE '%e%';
```

Câu j

```
SELECT last_name FROM employees
WHERE SUBSTRING(last_name FROM 3 FOR 1) = 'e';
```