Uttara University

Excellence in Higher Education and Research

Lab Report-02

Course Title : DATABASE MANAGEMENT SYSTEM

Course Code : CSEC321

Submitted By

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Batch : 55

Submitted To

Md. Harun Ar Rashid

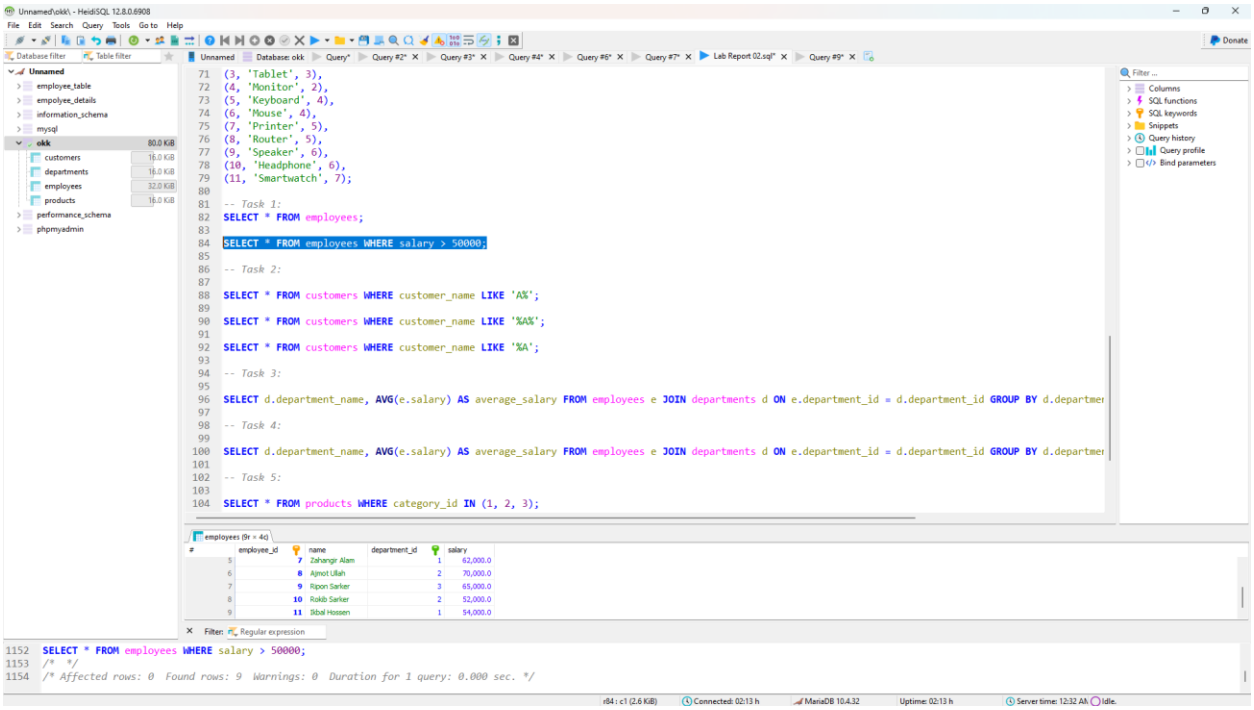
Senior Lecturer, Dept. CSE

Uttara University

Date Of Submission : 06.11.2024

Lab Report No- 02

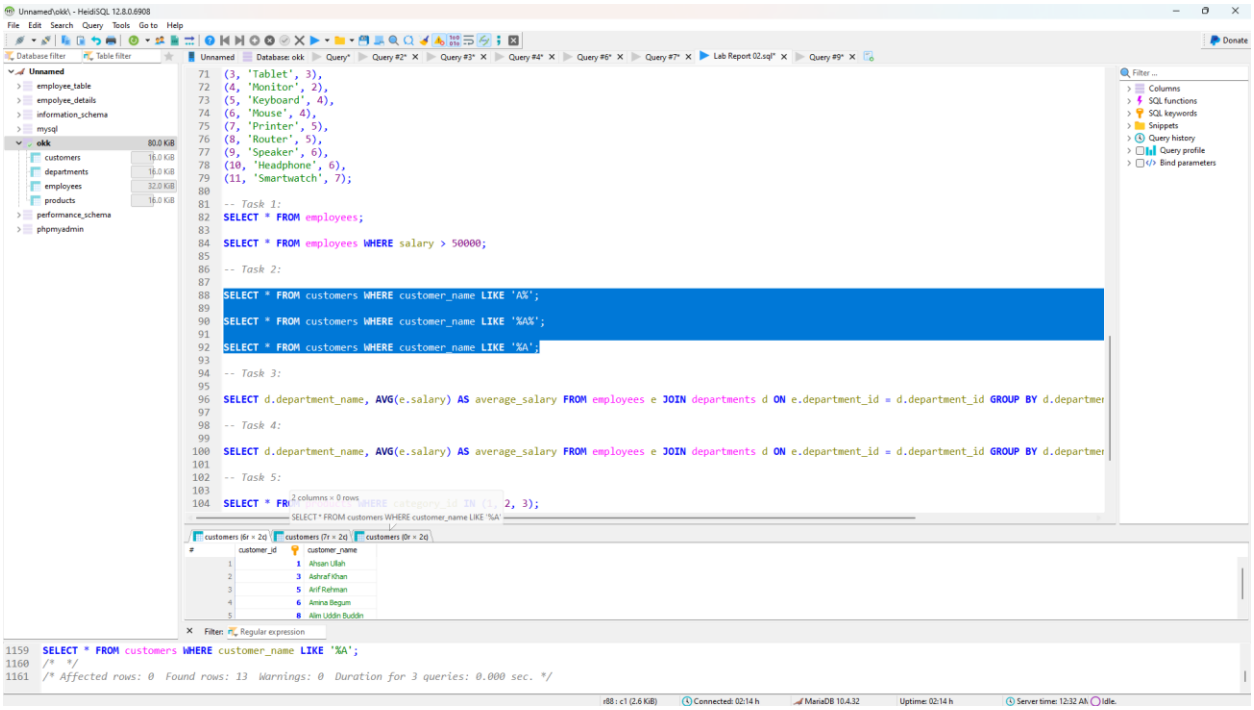
Task No 01:



```
(3, 'Tablet', 3),
(4, 'Monitor', 2),
(5, 'Keyboard', 4),
(6, 'Mouse', 4),
(7, 'Printer', 5),
(8, 'Router', 5),
(9, 'Speaker', 6),
(10, 'Headphone', 6),
(11, 'Smartwatch', 7);

-- Task 1:
SELECT * FROM employees;

SELECT * FROM employees WHERE salary > 50000;

-- Task 2:

SELECT * FROM customers WHERE customer_name LIKE 'A%';

SELECT * FROM customers WHERE customer_name LIKE '%A%';

SELECT * FROM customers WHERE customer_name LIKE '%A';

-- Task 3:

SELECT d.department_name, AVG(e.salary) AS average_salary FROM employees e JOIN departments d ON e.department_id = d.department_id GROUP BY d.departmer

-- Task 4:

SELECT d.department_name, AVG(e.salary) AS average_salary FROM employees e JOIN departments d ON e.department_id = d.department_id GROUP BY d.departmer

-- Task 5:

SELECT * FROM products WHERE category_id IN (1, 2, 3);
```

```
SELECT * FROM employees WHERE salary > 50000;
/*  */
/* Affected rows: 0  Found rows: 9  Warnings: 0  Duration for 1 query: 0.000 sec. */
```

Task No 02:



```
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(4, 'Monitor', 2),
(5, 'Keyboard', 4),
(6, 'Mouse', 4),
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(8, 'Router', 5),
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-- Task 5:

SELECT * FRO                                    2, 3);
```
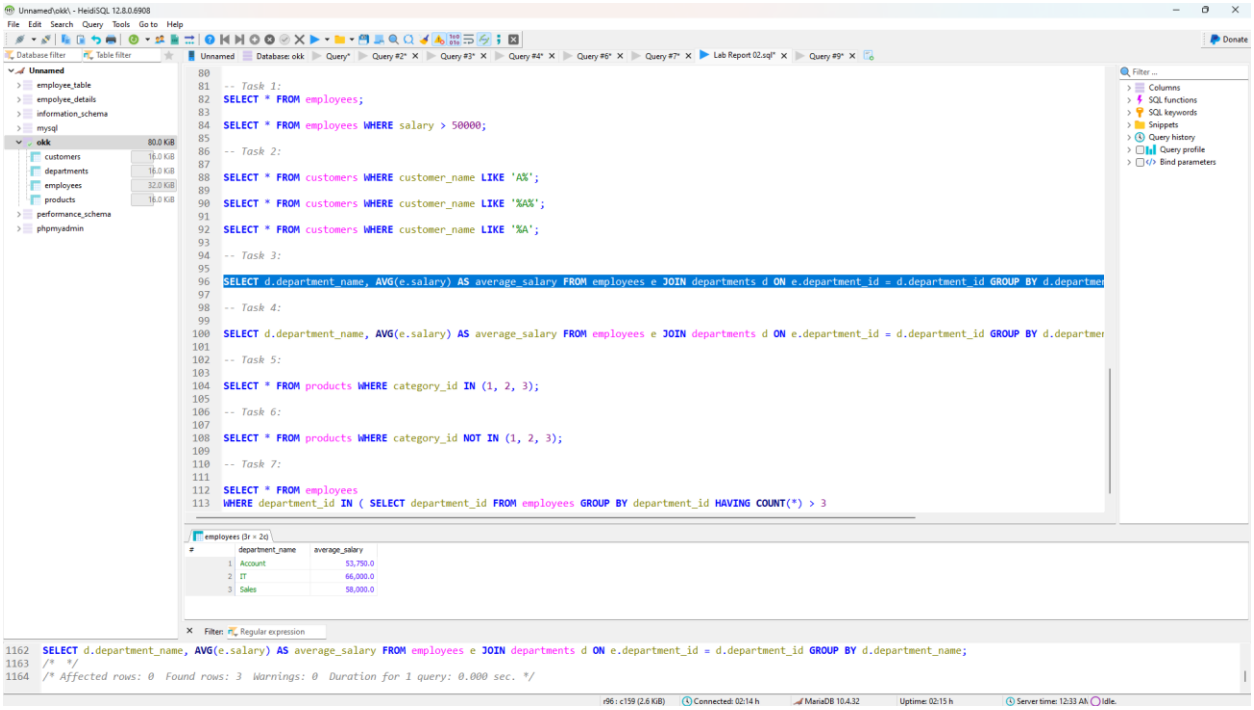

```
SELECT * FROM customers WHERE customer_name LIKE '%A';
/*  */
/* Affected rows: 0  Found rows: 13  Warnings: 0  Duration for 3 queries: 0.000 sec. */
```

Task No 03:



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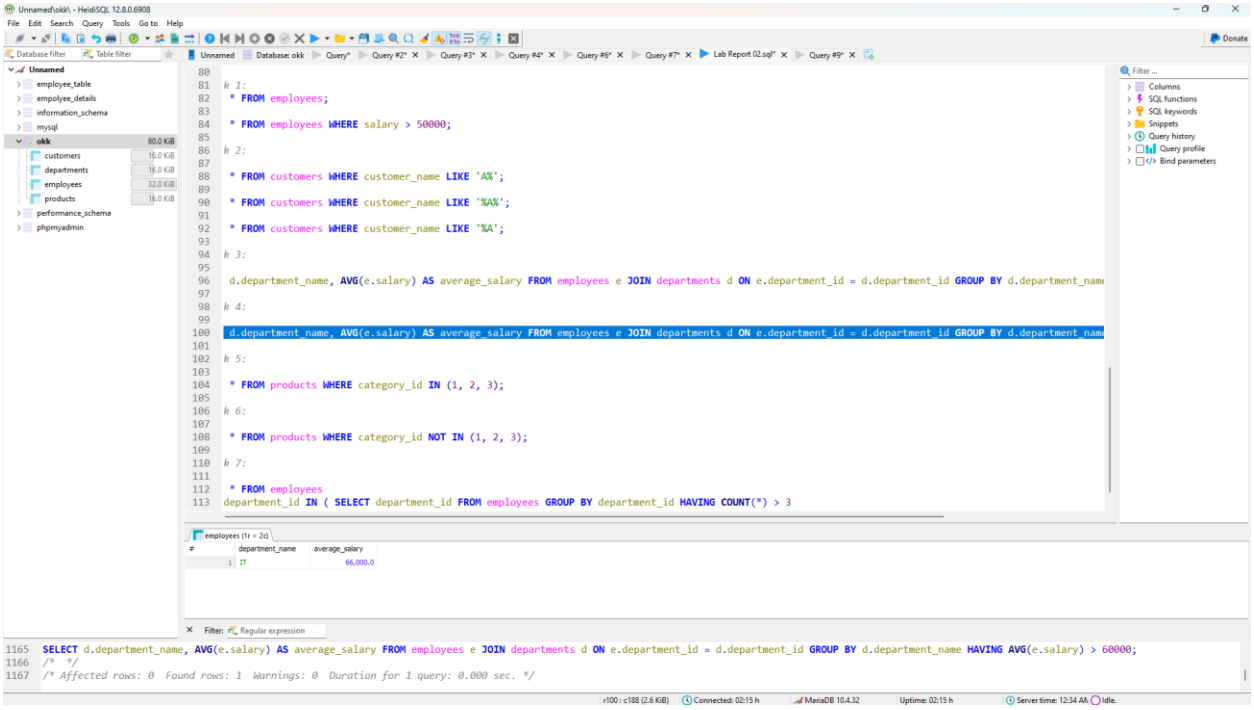

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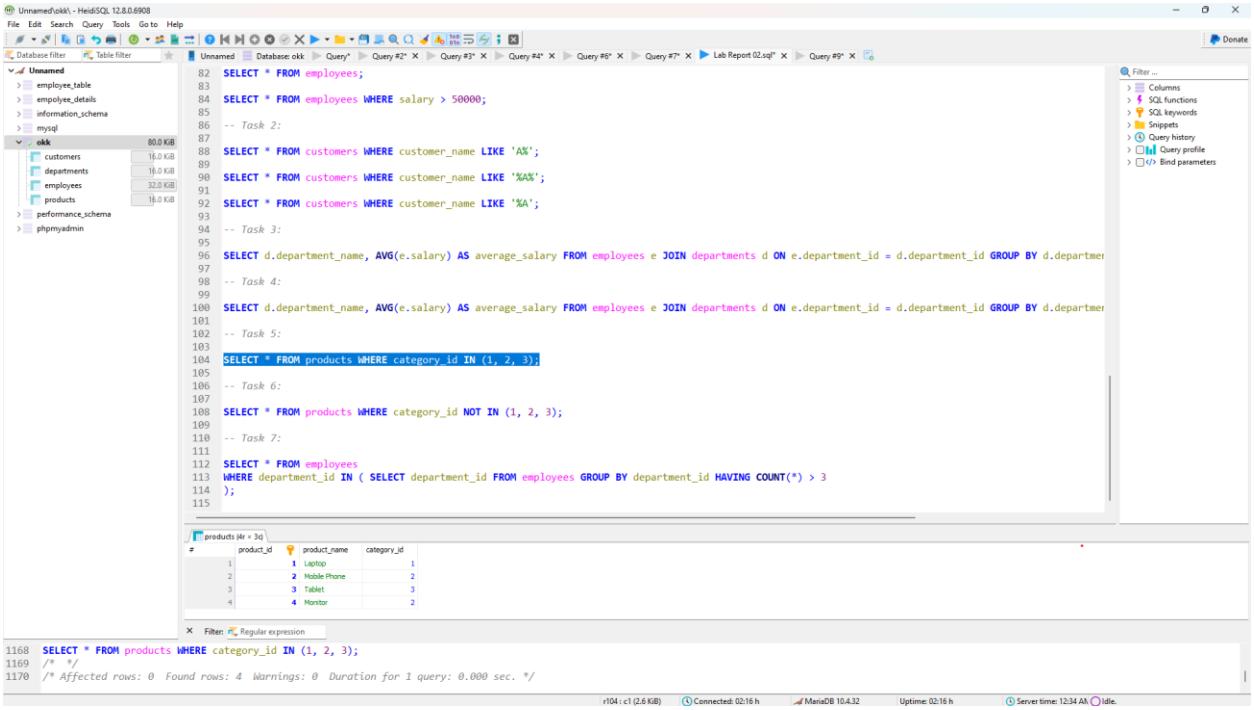

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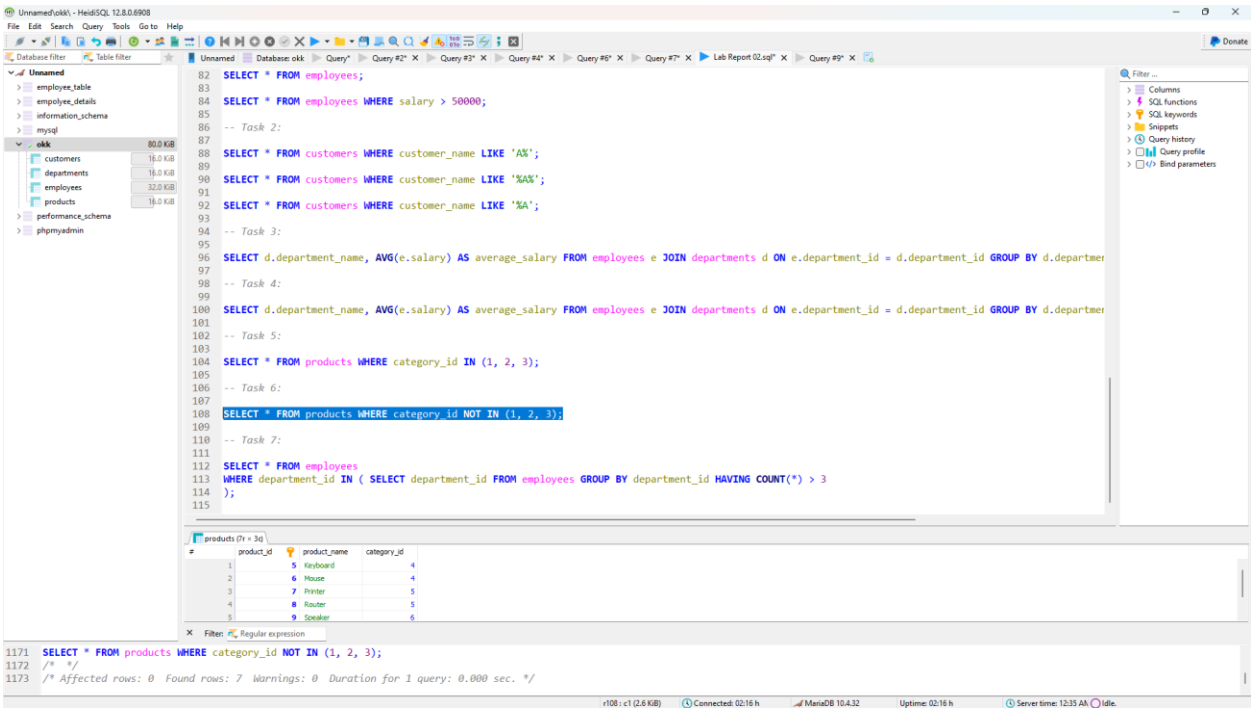
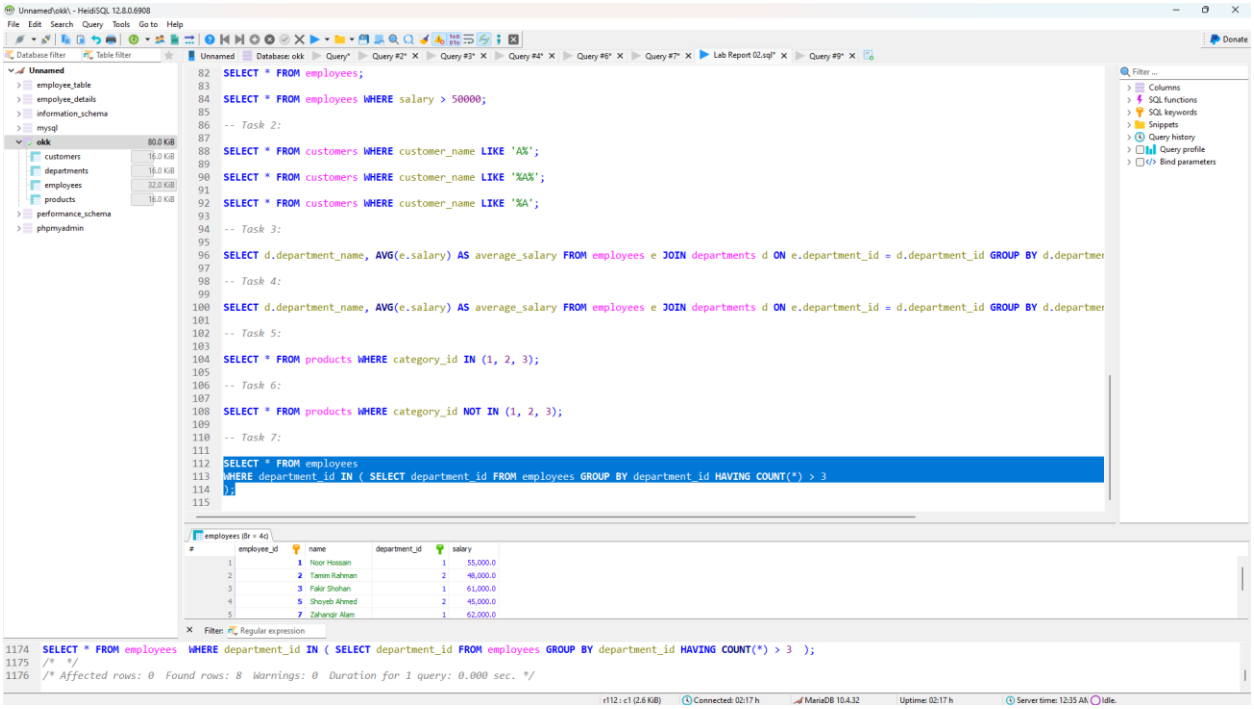


Task No 07:


SELECT * FROM employees;
SELECT * FROM employees WHERE salary > 50000;
-- Task 2:
SELECT * FROM customers WHERE customer_name LIKE 'A%';
SELECT * FROM customers WHERE customer_name LIKE '%A%';
SELECT * FROM customers WHERE customer_name LIKE '%A';
-- Task 3:
SELECT d.department_name, AVG(e.salary) AS average_salary FROM employees e JOIN departments d ON e.department_id = d.department_id GROUP BY d.departmer
-- Task 4:
SELECT d.department_name, AVG(e.salary) AS average_salary FROM employees e JOIN departments d ON e.department_id = d.department_id GROUP BY d.departmer
-- Task 5:
SELECT * FROM products WHERE category_id IN (1, 2, 3);
-- Task 6:
SELECT * FROM products WHERE category_id NOT IN (1, 2, 3);
-- Task 7:
SELECT * FROM employees
WHERE department_id IN (SELECT department_id FROM employees GROUP BY department_id HAVING COUNT(*) > 3
);
SELECT * FROM employees WHERE department_id IN (SELECT department_id FROM employees GROUP BY department_id HAVING COUNT(*) > 3);
/* */
/* Affected rows: 0 Found rows: 8 Warnings: 0 Duration for 1 query: 0.000 sec. */

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