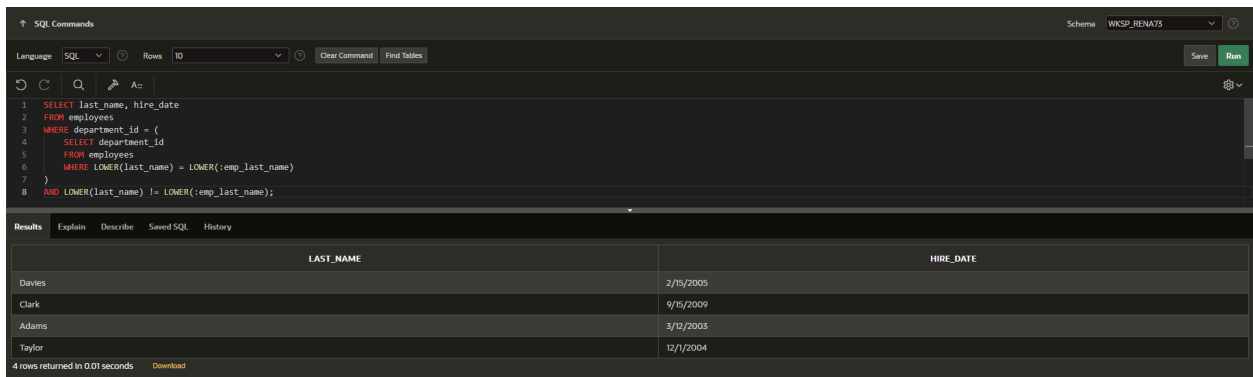


EXERCISE-9

Sub queries

NAME	RENA J
ROLL NO	241801227
DEPARTMENT	AI&DS

1. The HR department needs a query that prompts the user for an employee last name. The query then displays the last name and hire date of any employee in the same department as the employee whose name they supply (excluding that employee). For example, if the user enters Zlotkey, finds all employees who work with Zlotkey (excluding Zlotkey).



The screenshot shows the SQL Developer interface with the following SQL query:

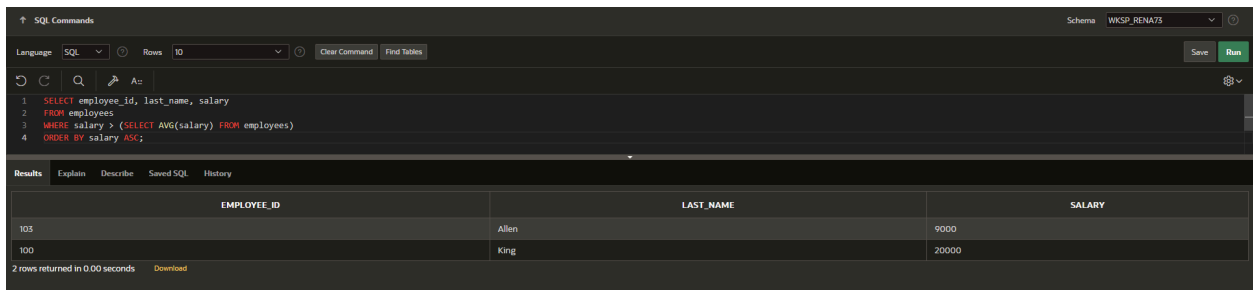
```
1 SELECT last_name, hire_date
2 FROM employees
3 WHERE department_id = (
4     SELECT department_id
5     FROM employees
6     WHERE LOWER(last_name) = LOWER(:emp_last_name)
7 )
8 AND LOWER(last_name) != LOWER(:emp_last_name);
```

The results pane displays the following data:

LAST_NAME	HIRE_DATE
Davies	2/15/2005
Clark	9/15/2009
Adams	3/12/2003
Taylor	12/1/2004

4 rows returned in 0.01 seconds

2. Create a report that displays the employee number, last name, and salary of all employees who earn more than the average salary. Sort the results in order of ascending salary.



The screenshot shows the SQL Developer interface with the following SQL query:

```
1 SELECT employee_id, last_name, salary
2 FROM employees
3 WHERE salary > (SELECT AVG(salary) FROM employees)
4 ORDER BY salary ASC;
```

The results pane displays the following data:

EMPLOYEE_ID	LAST_NAME	SALARY
103	Allen	9000
100	King	20000

2 rows returned in 0.00 seconds

3. Write a query that displays the employee number and last name of all employees who work in a department with any employee whose last name contains a u.

↑ SQL Commands

Language SQL Rows 10 Clear Command Find Tables

```

1 SELECT employee_id, last_name
2 FROM employees
3 WHERE department_id IN (
4     SELECT DISTINCT department_id
5     FROM employees
6     WHERE LOWER(last_name) LIKE '%u%'
7 );

```

Results Explain Describe Saved SQL History

no data found

4. The HR department needs a report that displays the last name, department number, and job ID of all employees whose department location ID is 1700.

↑ SQL Commands Schema WKSP_RENA73

Language SQL Rows 10 Clear Command Find Tables Save Run

```

1 SELECT e.last_name, e.department_id, e.job_id
2 FROM employees e
3 JOIN departments d ON e.department_id = d.department_id
4 WHERE d.location_id = 1700;

```

Results Explain Describe Saved SQL History

LAST_NAME	DEPARTMENT_ID	JOB_ID
King	90	CEO
Brown	10	AD_ASST
Miller	10	AD_ASST

3 rows returned in 0.03 seconds [Download](#)

5. Create a report for HR that displays the last name and salary of every employee who reports to King.

↑ SQL Commands Schema WKSP_RENA73

Language SQL Rows 10 Clear Command Find Tables Save Run

```

1 SELECT last_name, salary
2 FROM employees
3 WHERE manager_id = (
4     SELECT employee_id
5     FROM employees
6     WHERE last_name = 'King'
7 );

```

Results Explain Describe Saved SQL History

LAST_NAME	SALARY
Davies	5000
Allen	9000

2 rows returned in 0.01 seconds [Download](#)

6. Create a report for HR that displays the department number, last name, and job ID for every employee in the Executive department.

SQL Commands

Language: SQL Rows: 10 Clear Command Find Tables

```

1 SELECT e.department_id, e.last_name, e.job_id
2 FROM employees e
3 JOIN departments d ON e.department_id = d.department_id
4 WHERE d.department_name = 'Executive';

```

Results Explain Describe Saved SQL History

DEPARTMENT_ID	LAST_NAME	JOB_ID
90	King	CEO

1 rows returned in 0.01 seconds Download

7. Modify the query 3 to display the employee number, last name, and salary of all employees who earn more than the average salary and who work in a department with any employee whose last name contains a u.

SQL Commands

Language: SQL Rows: 10 Clear Command Find Tables

```

1 SELECT employee_id, last_name, salary
2 FROM employees
3 WHERE salary > (SELECT AVG(salary) FROM employees)
4 AND department_id IN (
5     SELECT DISTINCT department_id
6     FROM employees
7     WHERE LOWER(last_name) LIKE '%u%'
8 );

```

Results Explain Describe Saved SQL History

no data found