Ex.No.: 9		
Date:	06/09/2024	SUB QUERIES

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, find all employees who work with Zlotkey (excludingZlotkey).

```
SELECT last_name, hire_date
FROM employees
WHERE department_id = ALL(
    SELECT department_id
    FROM employees
    WHERE last_name = 'Zlotkey'
)
AND last_name != 'Zlotkey';
```



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.

```
SELECT EMPLOYEE_ID, LAST_NAME, SALARY
FROM employees
WHERE SALARY > (
SELECT AVG(SALARY)
FROM employees
)
ORDER BY SALARY ASC;
```

EMPLOYEE_ID	LAST_NAME	SALARY
7	Hemsworth	7800
16	Diesel	8000
12	Boseman	8000
23	Carlos	8200
41	charles	8900
22	Stan	9000
3	Downey	9000
8	Wilson	13500
25	Austin	13500

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.

```
SELECT EMPLOYEE_ID, LAST_NAME
FROM employees
WHERE DEPARTMENT_ID IN (
    SELECT DEPARTMENT_ID
    FROM employees
    WHERE LAST_NAME LIKE '%a%' and LAST_NAME LIKE '%u%');
```

EMPLOYEE_ID	LAST_NAME			
	Downey			
	Ruffalo			
30	Waititi			
	Goldblum			
	Stan			
	Bautista			
	Abu			
176	Morris			
	andru			
9 rows returned in 0.01 seconds Download				

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.

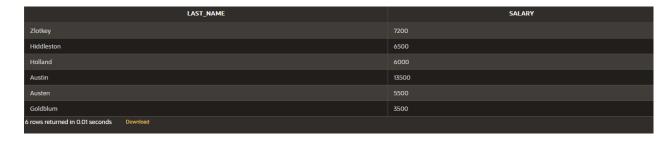
SELECT e.last_name, e.department_id, e.job_id

```
FROM employees e
INNER JOIN department d ON e.department_id = d.dept_id
WHERE e.department_id IN (
    SELECT dept_id
    FROM department
    WHERE location id = 1700);
```

LAST_NAME	DEPARTMENT_ID	JOB_ID		
Abu		#cb025		
Morris	55	#ce005		
andru		#bc023		
3 rows returned in 0.02 seconds Download				

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

```
SELECT e.last_name, e.salary
FROM employees e
WHERE e.manager_id IN (
    SELECT d.manager_id
    FROM department d
    WHERE d.manager_name = 'king');
```



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

```
SELECT e.department_id, e.last_name, e.job_id
FROM employees e
JOIN department d on e.department_id = d.dept_id
WHERE d.dept_name = 'executive';
```

DEPARTMENT_ID	LAST_NAME	JOB_ID			
75	Goldblum	ST_CLERK			
75	Stan	#ss022			
25	Austin	#ka028			
75	Bautista	#db017			
25	Diesel	#vd016			
5 rows returned in 0.02 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.

```
SELECT e.employee_id, e.last_name, e.salary
FROM employees e
WHERE e.salary > (
    SELECT AVG(salary)
    FROM employees
)
AND e.department_id IN (
    SELECT x.department_id
    FROM employees x
    WHERE x.last_name LIKE '%a%' AND x.last_name LIKE '%u%'
);
```

EMPLOYEE_ID	LAST_NAME	SALARY			
3	Downey	9000			
22	Stan	9000			
25	Abu	13500			
23	andru	8200			
4 rows returned in 0.01 seconds Download					