Experiment - 3

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STATEMENT:-

In a corporate organization, each department wants to recognize the employees who earn the highest salary within their department. The goal is to find the top earner(s) in every department. If multiple employees share the same highest salary within a department, all of them should be included.

Description

You are given two tables: one containing employee details (such as name, salary, and department ID) and another containing department details (such as department ID and department name).

Your task *is to write an SQL query that identifies the maximum salary in each department and retrieves the employee name(s), department name, and salary of those top earners.*

If multiple employees have the same maximum salary within a department, then all such employees must be included in the result.

The final output should display the department name, employee name, and salary of the top earner(s), ordered by department name.

CODE :-

```sql
-- Step 1: Create the Author table
CREATE TABLE Department (
    ID INT PRIMARY KEY,
    DEPT_NAME VARCHAR(50)
);

CREATE TABLE Employee (
    ID INT,
    NAME VARCHAR(50),
    SALARY INT,
    DEPT_ID INT,
    FOREIGN KEY (DEPT_ID) REFERENCES Department(ID)
);

-- Department data
INSERT INTO Department (ID, DEPT_NAME) VALUES
(1, 'IT'),
(2, 'SALES');

-- Employee data
INSERT INTO Employee (ID, NAME, SALARY, DEPT_ID) VALUES
(1, 'JOE', 70000, 1),
(2, 'JIM', 90000, 1),
(3, 'HENRY', 80000, 2),
(4, 'SAM', 60000, 2),
(5, 'MAX', 90000, 1);

SELECT d.DEPT_NAME, e.NAME, e.SALARY
FROM Employee e
JOIN Department d
    ON e.DEPT_ID = d.ID
WHERE e.SALARY = (
    SELECT MAX(e2.SALARY)
```

```
    FROM Employee e2
    WHERE e2.DEPT_ID = e.DEPT_ID
)
ORDER BY d.DEPT_NAME, e.NAME;
```

Output : -

	DEPT_NAME	NAME	SALARY
1	IT	JIM	90000
2	IT	MAX	90000
3	SALES	HENRY	80000