# Problem 184: Department Highest Salary

## Problem Information

**Difficulty:** Medium
**Acceptance Rate:** 0.00%
**Paid Only:** No

## Problem Description

Table:

Employee

+----------+---------+ | Column Name | Type | +----------+---------+ | id | int | | name | varchar | | salary | int | | departmentId | int | +----------+---------+ id is the primary key (column with unique values) for this table. departmentId is a foreign key (reference columns) of the ID from the

Department

table. Each row of this table indicates the ID, name, and salary of an employee. It also contains the ID of their department.

Table:

Department

+----------+---------+ | Column Name | Type | +----------+---------+ | id | int | | name | varchar | +----------+---------+ id is the primary key (column with unique values) for this table. It is guaranteed that department name is not

NULL.

Each row of this table indicates the ID of a department and its name.

Write a solution to find employees who have the highest salary in each of the departments.

Return the result table in

any order

.

The result format is in the following example.

Example 1:

Input:

Employee table: +----+-------+--------+--------------+ | id | name | salary | departmentId | +----+-------+--------+--------------+ | 1 | Joe | 70000 | 1 | | 2 | Jim | 90000 | 1 | | 3 | Henry | 80000 | 2 | | 4 | Sam | 60000 | 2 | | 5 | Max | 90000 | 1 | +----+-------+--------+--------------+ Department table: +----+-------+ | id | name | +----+-------+ | 1 | IT | | 2 | Sales | +----+-------+

Output:

+------------+----------+--------+ | Department | Employee | Salary | +------------+----------+--------+ | IT | Jim | 90000 | | Sales | Henry | 80000 | | IT | Max | 90000 | +------------+----------+--------+

Explanation:

Max and Jim both have the highest salary in the IT department and Henry has the highest salary in the Sales department.

## Code Snippets

**MySQL:**

```
# Write your MySQL query statement below
```

**MS SQL Server:**

```
/* Write your T-SQL query statement below */
```

**PostgreSQL:**

```
-- Write your PostgreSQL query statement below
```

**Oracle:**

```
/* Write your PL/SQL query statement below */
```

**Pandas:**

```
import pandas as pd

def department_highest_salary(employee: pd.DataFrame, department:
pd.DataFrame) -> pd.DataFrame:
```

## Solutions

**MySQL Solution:**

```
# Write your MySQL query statement below
```

**MS SQL Server Solution:**

```
/* Write your T-SQL query statement below */
```

**PostgreSQL Solution:**

```
-- Write your PostgreSQL query statement below
```

**Oracle Solution:**

```
/* Write your PL/SQL query statement below */
```

**Pandas Solution:**

```
import pandas as pd

def department_highest_salary(employee: pd.DataFrame, department:
pd.DataFrame) -> pd.DataFrame:
```