

# **TOP EARNERS**

#### OCTOBER 2023

## **Aggregation & Nested Select**

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Beginner	

We define an employee's total earnings to be their monthly *salary x months* worked, and the maximum total earnings to be the maximum total earnings for any employee in the Employee table. Write a query to find the maximum total earnings for all employees as well as the total number of employees who have maximum total earnings. Then print these values as space-separated integers.

#### **INPUT FORMAT**

The **EMPLOYEES** table is described as follows:

COLUMN	ТҮРЕ
employee_id	Integer
name	String
months	Integer
salary	Integer

where employee\_id is an employee's ID number, name is their name, months is the total number of months they've been working for the company, and salary is the their monthly salary.

## **SAMPLE INPUT**

employee_id	name	months	salary
12228	Rose	15	1968
33645	Angela	1	3443
45692	Frank	17	1608
56118	Patrick	7	1345
59725	Lisa	11	2330
74197	Kimberly	16	4372
78454	Bonnie	8	1771
83565	Michael	6	2017
98607	Todd	5	3396
99989	Joe	9	3573

## **SAMPLE OUTPUT**

69952 1

#### **EXPLANATION:**

The table and earnings data is depicted in the following diagram:

employee_i	name	months	salary	earnings
12228	Rose	15	1968	29520
33645	Angela	1	3443	3443
45692	Frank	17	1608	27336
56118	Patrick	7	1345	9415
59725	Lisa	11	2330	25630
74197	Kimberly	16	4372	69952
78454	Bonnie	8	1771	14168
83565	Michael	6	2017	12102
98607	Todd	5	3396	16980
99989	Joe	9	3573	32157

NB: These values to not encompass the entirety of data within the table

## **CODE SOLUTION**

SELECT

MAX(SALARY\*MONTHS),

COUNT(EMPLOYEE\_ID)

FROM Employee

WHERE NOT

(SALARY\*MONTHS) < (SELECT MAX(SALARY\*MONTHS) FROM EMPLOYEE)

### **SOLUTION PROCESS**

- Max function: Calculating the max earnings amounts at the company
- Count and function: Determining number of employees associated with targeted value
- Where Not and Nested Select function: Nest identifies earnings that fall under the maximum amount, thus allowing the Where Not function to exclude from counted values
- Note: "Earnings" is a calculated value that is not present in the original table and is therefore excluded from syntax

OUTPUT			
108064 7			