

580. Count Student Number in Departments Premium

Medium Topics Companies Hint

SQL Schema > Pandas Schema >

Table: Student

Column Name	Type
student_id	int
student_name	varchar
gender	varchar
dept_id	int

student_id is the primary key (column with unique values) for this table.
dept_id is a foreign key (reference column) to dept_id in the Department tables.
Each row of this table indicates the name of a student, their gender, and the id of their department.

Table: Department

Column Name	Type
dept_id	int
dept_name	varchar

dept_id is the primary key (column with unique values) for this table.
Each row of this table contains the id and the name of a department.

Write a solution to report the respective department name and number of students majoring in each department for all departments in the Department table (even ones with no current students).

Return the result table **ordered** by student_number **in descending order**. In case of a tie, order them by dept_name **alphabetically**.

The result format is in the following example.

Example 1:

Input:
Student table:

student_id	student_name	gender	dept_id
1	Jack	M	1
2	Jane	F	1
3	Mark	M	2

Department table:

dept_id	dept_name
1	Engineering
2	Science
3	Law

Output:

dept_name	student_number
Engineering	2
Science	1
Law	0

Seen this question in a real interview before? 1/5

Yes No

Accepted 70.2K | Submissions 118.2K | Acceptance Rate 59.3%

Topics

Database

Companies

0 - 6 months

X 2

Hint 1

Still remember the difference between 'INNER JOIN' and 'OUTTER JOIN' in SQL?

Hint 2

Do you know other expressions using the 'COUNT' function besides 'COUNT(*)'?

Discussion (6)