

Solution to Exercise 3

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WE'LL COVER THE FOLLOWING ^

- Solution
- Explanation

Solution

```
SELECT PROJECT, COUNT(Emp_Id) AS Emp_Count  
FROM SALARY  
GROUP BY PROJECT  
ORDER BY Emp_Count DESC;
```



Again, the solution will work without using the alias for `COUNT(Emp_Id)`.

Explanation

The query has two requirements: first, fetch the project-wise count and then sort the result by that count. For a project-wise count, we will be using the `COUNT()` function to count the number of employees that have been grouped together using the `GROUP BY` clause. Lastly, for sorting, we will use the `ORDER BY` clause on the alias of the employee-count.

The slides below help to visualize the solution:

The GROUP BY clause will divide the employees working on same project into different groups.

As we can see these two employees work on P1 so they will be grouped together

Likewise these two will be grouped together as they work on P2

And so on

Then the COUNT() function will count the number of employees per project

Emp_Id	Project	Salary
100	P1	20,000
101	P2	40,000
102	P3	50,000
103	P3	50,000
104	P2	40,000
105	P4	15,000
106	P1	20,000
107	P5	70,000
108	P5	55,000

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Then the ORDER BY clause will arrange the records in terms of the number of employees working on a project in descending order

PROJECT	Emp_Count
P1	2
P2	2
P3	2
P5	2
P4	1

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