

# 65\_Employee Bonus Easy - Solution

Source: <https://leetcode.com/problems/employee-bonus/description/>

Running Notes:

- Write a solution to report the name and bonus amount of each employee with a bonus **less than** 1000 .

```
-- Write your PostgreSQL query statement below
SELECT name,bonus FROM
Employee AS e LEFT JOIN Bonus AS b
ON e.empId = b.empId
WHERE bonus < 1000 OR bonus IS NULL
```

the below version improved the runtime

```
-- Write your PostgreSQL query statement below
SELECT name,bonus FROM
Employee AS e LEFT JOIN Bonus AS b
ON e.empId = b.empId
WHERE COALESCE(bonus,0) < 1000
```

- The database engine needs to evaluate **two separate conditions** ( `bonus < 1000` and `bonus IS NULL` ) for each row.
- The `OR` operator can lead to inefficiencies because it prevents the query planner from using certain indexes efficiently.
- The `COALESCE` function replaces `NULL` values with `0` , effectively simplifying the condition to **a single comparison** ( `bonus < 1000` ).
- This makes it easier for the query planner to optimize execution, potentially using indexes more efficiently.

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