# 577. Employee Bonus 🗗

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Select all employee's name and bonus whose bonus is < 1000.

Table: Employee

```
empId | name | supervisor | salary |
     John
            3
                       1000
       Dan
             3
                       2000
            null
                       4000
     Brad
   4 Thomas 3
                       4000
empId is the primary key column for this table.
```

Table: Bonus

```
+----+
empId | bonus |
2
      500
      2000
empId is the primary key column for this table.
```

Example ouput:

```
name bonus
John | null
    500
Dan
| Brad | null |
+----+
```

Solution

Intuition

Approach: Using OUTER JOIN and WHERE clause [Accepted]

## Join table **Employee** with **Bonus** and then use **WHERE** clause to get the required records.

Algorithm

### Since foreign key Bonus.empld refers to Employee.empld and some employees do not have bonus records,

we can use OUTER JOIN to link these two tables as the first step. SELECT

```
Employee.name, Bonus.bonus
FROM
    Employee
        LEFT OUTER JOIN
    Bonus ON Employee.empid = Bonus.empid
  Note: "LEFT OUTER JOIN" could be written as "LEFT JOIN".
```

The output to run this code with the sample data is as below.

bonus

name

```
Dan
              500
    Thomas 2000
    Brad
    John
The bonus value for 'Brad' and 'John' is empty, which is actually NULL in the database. "Conceptually, NULL
```

Working with NULL Values in MySQL manual for more details. In addition, we have to use IS NULL or IS NOT NULL to compare a value with NULL. At last, we can add a WHERE clause with the proper conditions to filter these records.

means "a missing unknown value" and it is treated somewhat differently from other values." Check the

MySQL

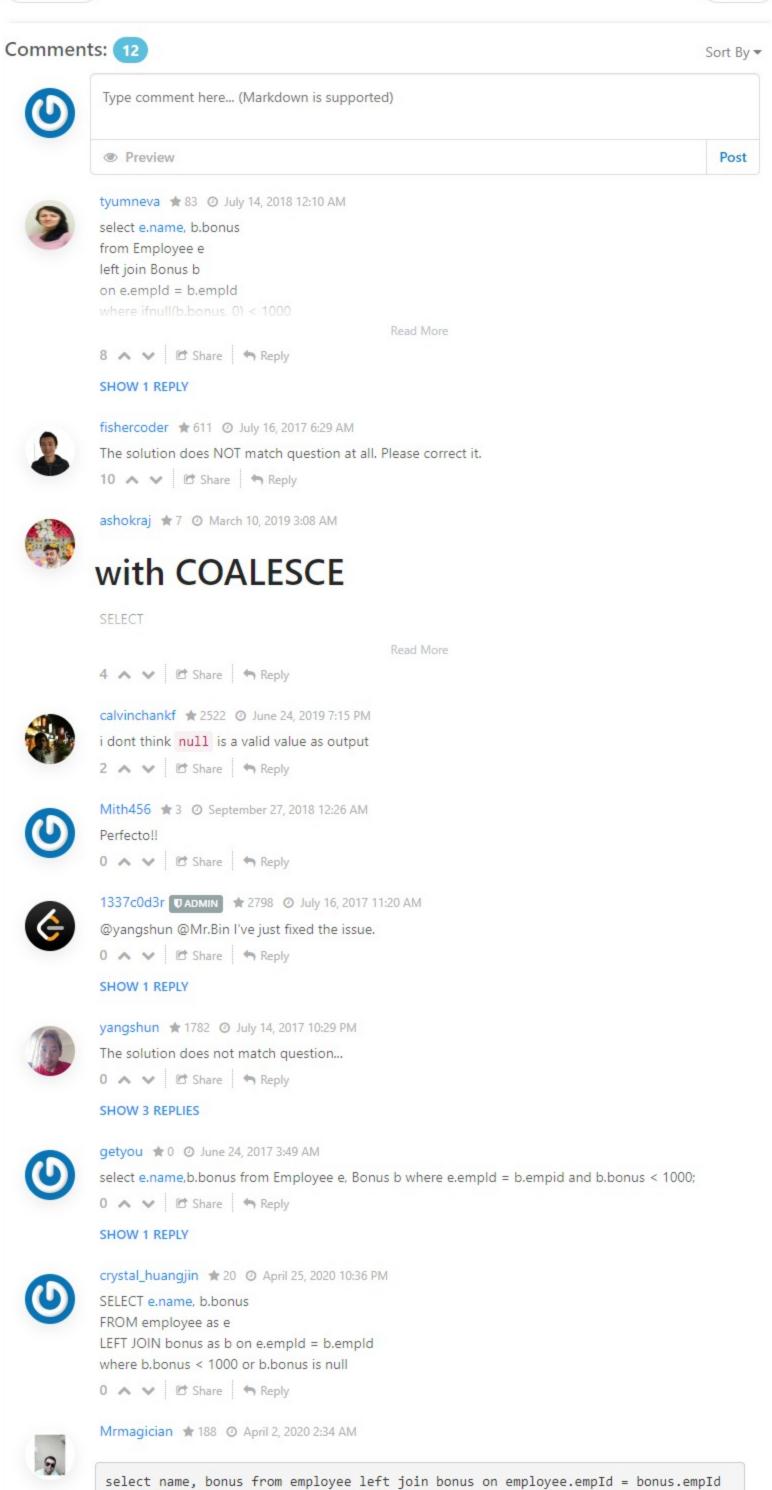
## SELECT FROM

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```
Employee
         LEFT JOIN
     Bonus ON Employee.empid = Bonus.empid
      bonus < 1000 OR bonus IS NULL
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```

Next 0

Employee.name, Bonus.bonus



where bonus < 1000 or bonus is null;

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