

S05-L03 Practice

Assignment

Create a query to return average salary on `2000-01-01` per department and indication if it's above or below company average at the same date. The result structure should be:

- `year_month` (focus only on `2000-01-01`)
- `department_id`
- `department_name`
- `department_average_salary`
- `company_average_salary`
- `department_vs_company` (values: "lower" or "higher" or "same")

Store the company average in a session variable for easier & faster comparison.

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...

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SPOILER: Below are the results

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...

Result

```
SET @focus_date = '2000-01-01';

SET @company_average_salary := (
  SELECT
    ROUND(AVG(`salary`.`salary_amount`), 2) AS company_average_salary
  FROM `sample_staff`.`salary`
  WHERE 1=1
    AND @focus_date BETWEEN `salary`.`from_date` AND
    IFNULL(`salary`.`to_date`, '2002-08-01')
```

```

);

SELECT
    `department_id` AS department_id,
    `department_name` AS department_name,
    `department_average_salary` AS department_average_salary,
    @company_average_salary AS company_average_salary,
    CASE
        WHEN `department_average_salary` > @company_average_salary
    THEN "higher"
        WHEN `department_average_salary` = @company_average_salary
    THEN "same"
        ELSE "lower"
    END AS department_vs_company
FROM (
SELECT
    `department`.`id` AS department_id,
    `department`.`name` AS department_name,
    AVG(`salary`.`salary_amount`) AS department_average_salary
FROM `sample_staff`.`salary`
INNER JOIN `sample_staff`.`department_employee_rel` ON 1=1
    AND `department_employee_rel`.`employee_id` = `salary`.`employee_id`
    AND @focus_date BETWEEN `department_employee_rel`.`from_date` AND
IFNULL(`department_employee_rel`.`to_date`, '2002-08-01')
INNER JOIN `sample_staff`.`department` ON 1=1
    AND `department`.`id` = `department_employee_rel`.`department_id`
WHERE 1=1
    AND @focus_date BETWEEN `salary`.`from_date` AND
IFNULL(`salary`.`to_date`, '2002-08-01')
GROUP BY
    `department`.`id`,
    `department`.`name`
) xTMP

```