Task III – MySQL

Connect to MySQL server with a SQL client using following credentials:

host: pop703qatrial.csps2cqmnya4.eu-west-1.rds.amazonaws.com username: marsapplicant password: Mars@trivago2018 Default Schema: marstestdb

Write the queries you would use to answer the following questions:

* Which department pays the highest salary currently and who is the department manager?
* How many employees are working in Human Resources Department currently?
* Who is currently the oldest employee of the company?
* What is the current average salary of Marketing Department?
* Who is currently the newest employee of the company?

1. **Which department pays the highest salary currently and who is the department manager?**

SELECT CONCAT(employees.first\_name, ' ', employees.last\_name) AS employee, departments.dept\_name, employees.emp\_no, salaries.salary, CONCAT(manager.first\_name, ' ', manager.last\_name) AS manager

FROM employees

INNER JOIN salaries ON salaries.emp\_no = employees.emp\_no

INNER JOIN dept\_emp ON dept\_emp.emp\_no = employees.emp\_no

INNER JOIN departments ON departments.dept\_no = dept\_emp.dept\_no

INNER JOIN dept\_manager ON dept\_manager.dept\_no = departments.dept\_no

INNER JOIN employees AS manager ON manager.emp\_no = dept\_manager.emp\_no

WHERE salaries.salary IN (SELECT max(salary) FROM salaries WHERE NOW() BETWEEN from\_date AND to\_date)

**Result:** Tokuyasu Pesch Sales 43624 158220 Hauke Zhang

1. **How many employees are working in Human Resources Department currently?**

SELECT COUNT(dept\_emp.emp\_no) FROM dept\_emp

LEFT JOIN departments ON departments.dept\_no = dept\_emp.dept\_no

WHERE departments.dept\_name = 'Human Resources' AND NOW() BETWEEN dept\_emp.from\_date AND dept\_emp.to\_date

**Result:** 12898

1. **Who is currently the oldest employee of the company?**

SELECT CONCAT(employees.first\_name, ' ', employees.last\_name) as employee, employees.emp\_no, dept\_emp.from\_date

FROM employees

INNER JOIN dept\_emp ON employees.emp\_no = dept\_emp.emp\_no

WHERE dept\_emp.from\_date IN ( SELECT MIN(from\_date) FROM dept\_emp)

AND NOW() BETWEEN dept\_emp.from\_date AND dept\_emp.to\_date

ORDER BY employees.hire\_date ASC

**Result:**

Margareta Markovitch 110022 1985-01-01

Ebru Alpin 110085 1985-01-01

Shirish Ossenbruggen 110183 1985-01-01

Krassimir Wegerle 110303 1985-01-01

DeForest Hagimont 110511 1985-01-01

Peternela Onuegbe 110725 1985-01-01

Przemyslawa Kaelbling 111035 1985-01-01

Arie Staelin 111400 1985-01-01

Tonny Butterworth 111692 1985-01-01

1. **What is the current average salary of Marketing Department?**

SELECT AVG(salaries.salary)

FROM salaries

INNER JOIN dept\_emp ON dept\_emp.emp\_no = salaries.emp\_no

INNER JOIN departments ON departments.dept\_no = dept\_emp.dept\_no

WHERE departments.dept\_name = 'Marketing'

AND NOW() BETWEEN salaries.from\_date AND salaries.to\_date

**Result:** 80014.6861

1. **Who is currently the newest employee of the company?**

SELECT CONCAT(employees.first\_name, ' ',employees.last\_name) AS employee

FROM employees

LEFT JOIN dept\_emp ON dept\_emp.emp\_no = employees.emp\_no

WHERE dept\_emp.from\_date IN (SELECT MAX(dept\_emp.from\_date) FROM dept\_emp)

AND NOW() BETWEEN dept\_emp.from\_date AND dept\_emp.to\_date

ORDER BY employees.hire\_date DESC

**Result:**

Luise Kilgour

Constantijn Sidou

Insup Zschoche

Yucai Bierbaum

Shigeichiro Gihr

Piyush Docker

Krisda Chepyzhov