**Database Management System - Spring 2023**

**Lab-04**

**Lab Task(s):**

Exercise

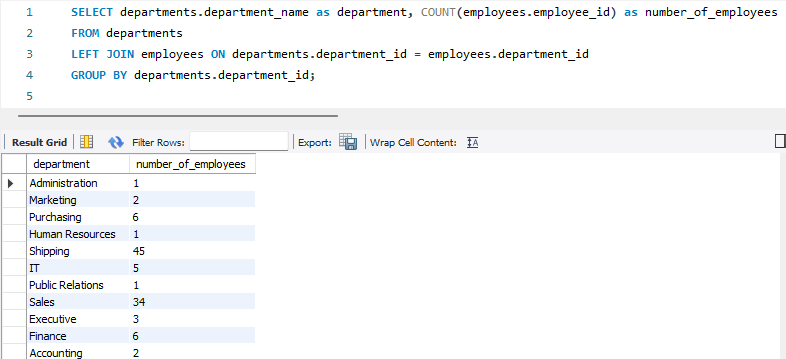
1.    Write a query to lists the number of employees in each department.

**SELECT departments.department\_name as department, COUNT(employees.employee\_id) as number\_of\_employees**

**FROM departments**

**LEFT JOIN employees ON departments.department\_id = employees.department\_id**

**GROUP BY departments.department\_id;**



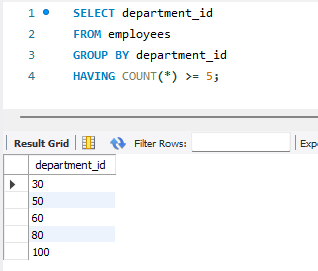
2.    Write a query to display the department id where at least 5 employees should be in each department.

**SELECT department\_id**

**FROM employees**

**GROUP BY department\_id**

**HAVING COUNT(\*) >= 5;**



3.    Write a query to display all columns of those employees who has first name is unique.

**SELECT \***

**FROM employees**

**WHERE first\_name IN (**

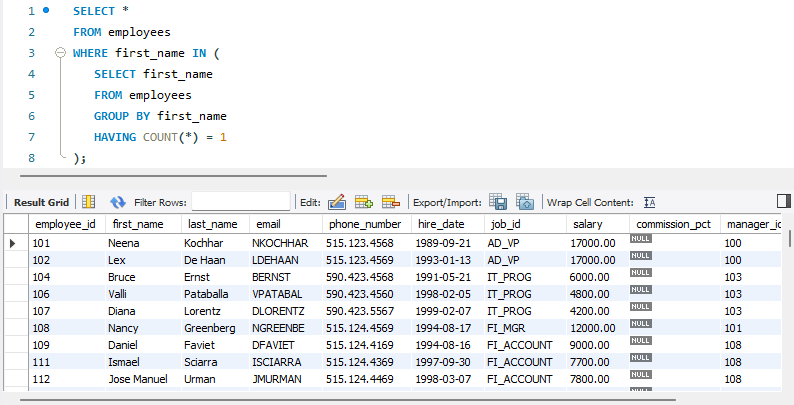
**SELECT first\_name**

**FROM employees**

**GROUP BY first\_name**

**HAVING COUNT(\*) = 1**

**);**

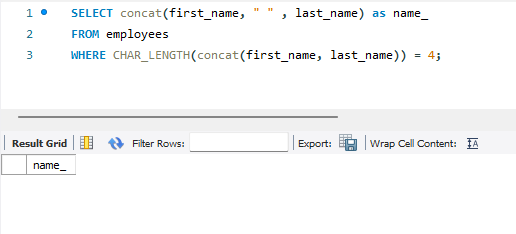


4.    Write a SQL query to get name of employees containing exactly four characters.

**SELECT concat(first\_name, " " , last\_name) as name\_**

**FROM employees**

**WHERE CHAR\_LENGTH(concat(first\_name, last\_name)) = 4;**

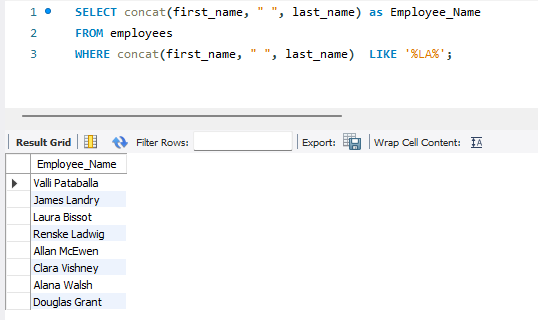
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5.    Write a query to display the list of employee names that have letters ‘LA’ in their names.

**SELECT concat(first\_name, " ", last\_name) as Employee\_Name**

**FROM employees**

**WHERE concat(first\_name, " ", last\_name) LIKE '%LA%';**

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6.    Write a query to display names of those employees whose first name starts with ‘A’ and ends with ‘N’.

**SELECT concat(first\_name, " ", last\_name) as Employee\_Name**

**FROM employees**

**WHERE concat(first\_name, " ", last\_name) LIKE 'A%N';**

Graphical user interface, text, application

Description automatically generated

7.    Write a query to display first names of all employees that end with alphabet ‘N’.

**SELECT first\_name**

**FROM employees**

**WHERE first\_name LIKE '%N';**

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8.    Write a query to display FIRST\_NAME, LASTNAME of all employees whose first name starts with letter ‘A’.

**SELECT concat(first\_name, " ", last\_name) as Employee\_Name**

**FROM employees**

**WHERE first\_name LIKE 'A%';**

**Graphical user interface, text, application, email

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9.    Write a query to display the number of employees with the same job.

**SELECT job\_title, COUNT(\*) as number\_of\_employees**

**FROM jobs**

**GROUP BY job\_title;**

**Table

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10. Display the manager number and the salary of the lowest paid employee of that manager. Exclude anyone whose manager is not known. Exclude any groups where the minimum salary is 2000. Sort the output is descending order of the salary.

**SELECT e.manager\_id AS manager\_number, MIN(e.salary) AS lowest\_salary**

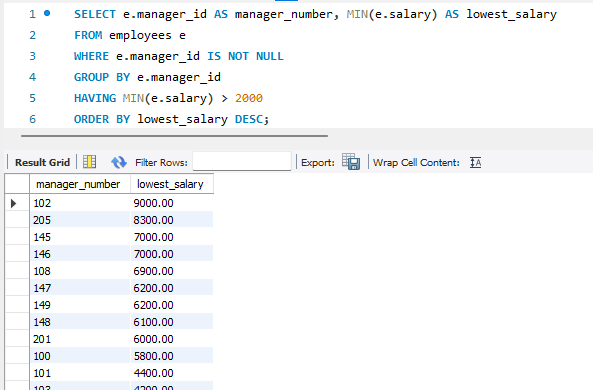
**FROM employees e**

**WHERE e.manager\_id IS NOT NULL**

**GROUP BY e.manager\_id**

**HAVING MIN(e.salary) > 2000**

**ORDER BY lowest\_salary DESC;**

****

11. Display the total number of employees who have no commission.

**SELECT COUNT(\*) AS number\_of\_employees**

**FROM employees**

**WHERE commission\_pct IS NULL;**

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12. Write a query to display FIRST\_NAME, LASTNAME of all employees whose first name ends with small ‘t’.

**SELECT concat(first\_name, " ", last\_name)**

**FROM employees**

**WHERE first\_name LIKE '%T';**

**Graphical user interface, text, application, email

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