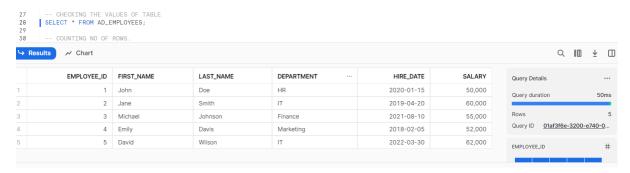
```
CREATE OR REPLACE DATABASE AD_ASSIGNMENT;
-- ACTIVATING THE DATABASE
USE AD_ASSIGNMENT;
-- CREATING A TABLE
CREATE OR REPLACE TABLE AD_employees
(
  employee_id INT PRIMARY KEY,
  first_name VARCHAR(50),
  last_name VARCHAR(50),
  department VARCHAR(50),
  hire_date DATE,
  salary INT
);
-- INSERING VALUE INTO ALREADY CREATED TABLE
INSERT INTO AD_employees (employee_id, first_name, last_name, department, hire_date, salary)
VALUES
(1, 'John', 'Doe', 'HR', '2020-01-15', 50000),
(2, 'Jane', 'Smith', 'IT', '2019-04-20', 60000),
(3, 'Michael', 'Johnson', 'Finance', '2021-08-10', 55000),
(4, 'Emily', 'Davis', 'Marketing', '2018-02-05', 52000),
```

--CREATING A DATABASE

(5, 'David', 'Wilson', 'IT', '2022-03-30', 62000);

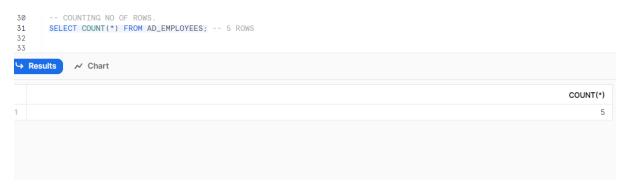
-- CHECKING THE VALUES OF TABLE

SELECT * FROM AD_EMPLOYEES;



-- COUNTING NO OF ROWS.

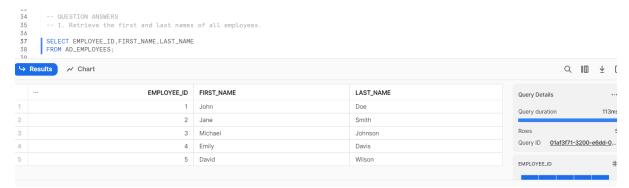
SELECT COUNT(*) FROM AD_EMPLOYEES; -- 5 ROWS



- -- QUESTION ANSWERS
- -- 1. Retrieve the first and last names of all employees.

SELECT EMPLOYEE_ID,FIRST_NAME,LAST_NAME

FROM AD_EMPLOYEES;



-- 2. Find the total number of employees in the company.

SELECT COUNT(DISTINCT EMPLOYEE_ID) AS NUMBER_OF_EMPLOYEES

FROM AD_EMPLOYEES; -- GIVES 5 EMPLOYEES



-- 3. Get the names of employees who work in the IT department.

SELECT FIRST_NAME||''||LAST_NAME AS NAME_OF_EMPLOYEES_IN_IT_DEPT

FROM AD_EMPLOYEES

WHERE DEPARTMENT = 'IT';



-- 4. Calculate the average salary of all employees.

SELECT COUNT(EMPLOYEE_ID) AS NO_OF_EMPLOYEES,SUM(SALARY) AS TOT_SALARY_OF_EMPLOYEES,

ROUND(TOT_SALARY_OF_EMPLOYEES/NO_OF_EMPLOYEES,0) AS AVG_SALARY_OF_EMPLOYEES FROM AD_EMPLOYEES; -- AVG SALARY OF EMPLOYEES IS 55800.



-- 5. Find the employee with the highest salary.

-- METHOD-1

SELECT EMPLOYEE_ID, FIRST_NAME||''||LAST_NAME AS EMPLOYEE_WITH_HIGHEST_SALARY, SALARY

FROM AD_EMPLOYEES

ORDER BY 3 DESC

LIMIT 1; -- DAVID WILSON HAS HIGHEST SALARY WITH 62000.



-- METHOD -2

SELECT EMPLOYEE_ID, FIRST_NAME||''||LAST_NAME AS EMPLOYEE_WITH_HIGHEST_SALARY, SALARY

FROM AD_EMPLOYEES

WHERE SALARY = (SELECT MAX(SALARY) FROM AD_EMPLOYEES);



- 6. List the employees hired before January 1, 2021, along with their hire dates.

SELECT EMPLOYEE_ID,FIRST_NAME||''||LAST_NAME AS EMPLOYEES_HIRED_BEFORE_2021_01_01 FROM AD_EMPLOYEES

WHERE HIRE_DATE < '2021-01-01';

