SQL_ASSIGNMENT_2

Dataset: Employee Information

You have been given a dataset containing information about employees in a company. The dataset includes the following columns:

- employee_id (integer): Unique identifier for each employee.
- first_name (string): First name of the employee.
- last_name (string): Last name of the employee.
- department (string): The department in which the employee works.
- hire_date (date): The date on which the employee was hired.
- salary (integer): The salary of the employee.

Table Structure:

Create a table named employees with the following structure:

```
CREATE OR REPLACE TABLE EMPLOYEES
(
   EMPLOYEE_ID INT PRIMARY KEY,
   FIRST_NAME VARCHAR(50),
   LAST_NAME VARCHAR(50),
   DEPARTMENT VARCHAR(50),
   HIRE_DATE DATE,
   SALARY INT
);
```

```sql
-- CREATING NEW DATABASE

CREATE DATABASE EMP_DATABASE;
USE EMP_DATABASE;

-- CREATING TABLE

CREATE OR REPLACE TABLE EMPLOYEES
(
    EMPLOYEE_ID INT PRIMARY KEY,
    FIRST_NAME VARCHAR(50),
    LAST_NAME VARCHAR(50),
    DEPARTMENT VARCHAR(50),
    HIRE_DATE DATE,
    SALARY INT
);
```

Insert Data:

```
18    -- Insert the data
19
20    INSERT INTO EMPLOYEES (EMPLOYEE_ID, FIRST_NAME, LAST_NAME, DEPARTMENT, HIRE_DATE, SALARY)
21    VALUES   (1, 'John', 'Doe', 'HR', '2020-01-15', 50000),
22             (2, 'Jane', 'Smith', 'IT', '2019-04-20', 60000),
23             (3, 'Michael', 'Johnson', 'Finance', '2021-08-10', 55000),
24             (4, 'Emily', 'Davis', 'Marketing', '2018-02-05', 52000),
25             (5, 'David', 'Wilson', 'IT', '2022-03-30', 62000);
26
```

Write SQL queries to answer the following questions using the employees table:

1. **Retrieve the first and last names of all employees.**

SELECT FIRST_NAME, LAST_NAME FROM EMPLOYEES;

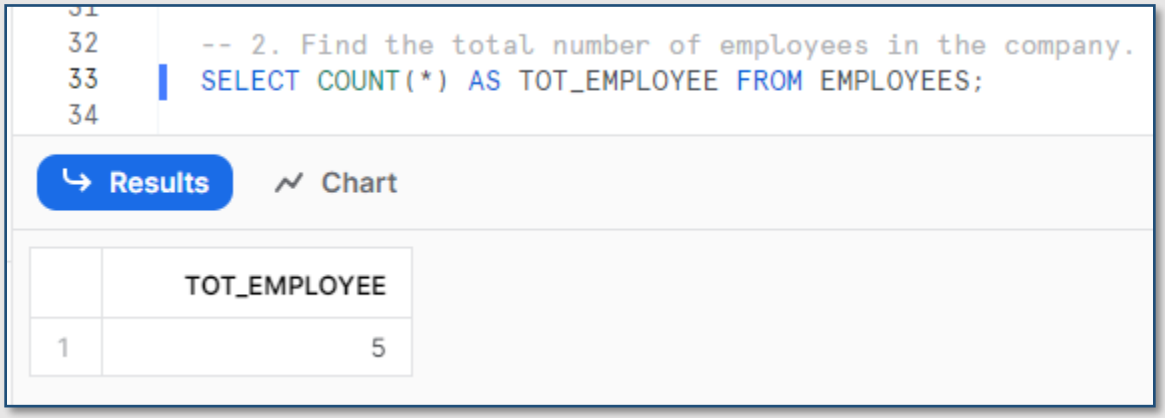
```
29    -- 1. Retrieve the first and last names of all employees.
30    SELECT FIRST_NAME, LAST_NAME FROM EMPLOYEES;
31
```

Results | Chart

	FIRST_NAME	LAST_NAME
1	John	Doe
2	Jane	Smith
3	Michael	Johnson
4	Emily	Davis
5	David	Wilson

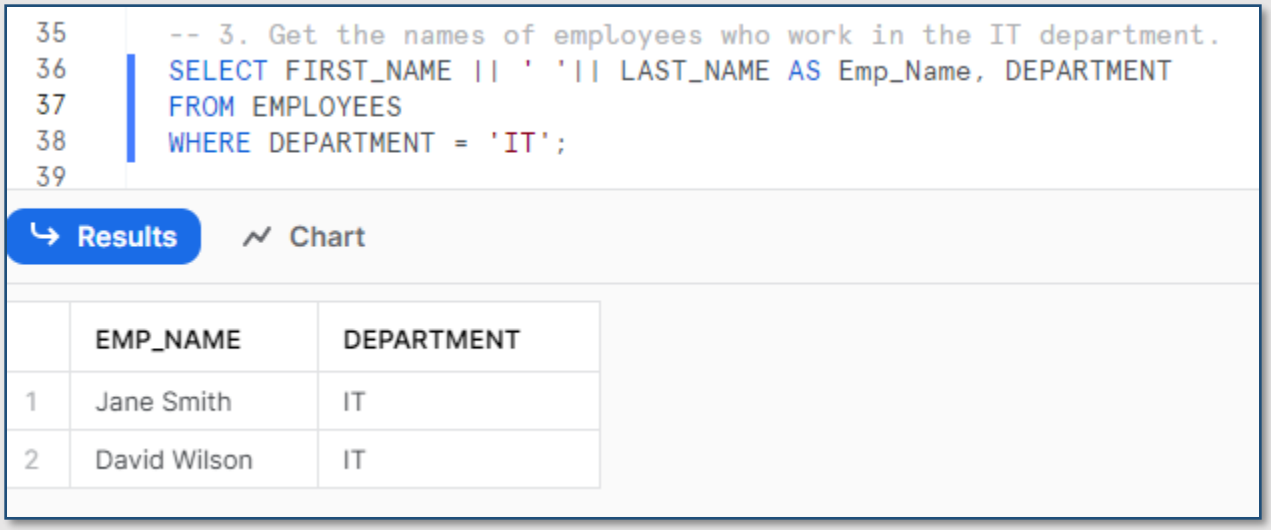
2. Find the total number of employees in the company.

```
SELECT COUNT(*) AS TOT_EMPLOYEE FROM EMPLOYEES;
```



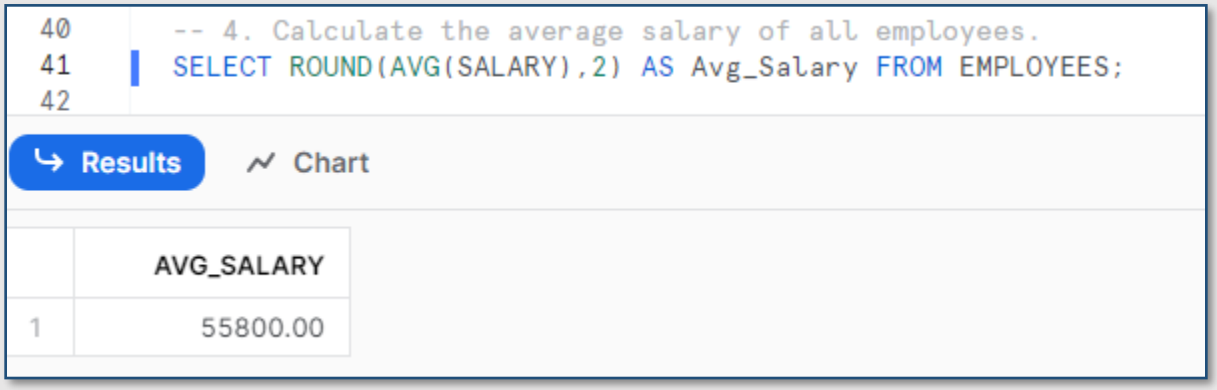
3. Get the names of employees who work in the IT department.

```
SELECT FIRST_NAME || ' '|| LAST_NAME AS Emp_Name, DEPARTMENT
 FROM EMPLOYEES
 WHERE DEPARTMENT = 'IT';
```



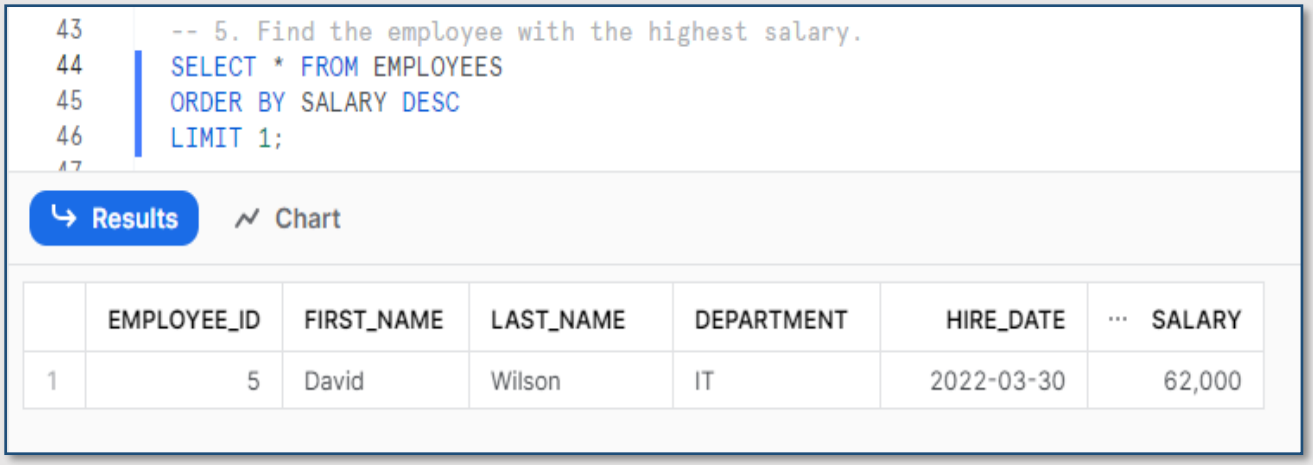
4. Calculate the average salary of all employees.

```
SELECT ROUND(AVG(SALARY),2) AS Avg_Salary FROM EMPLOYEES;
```



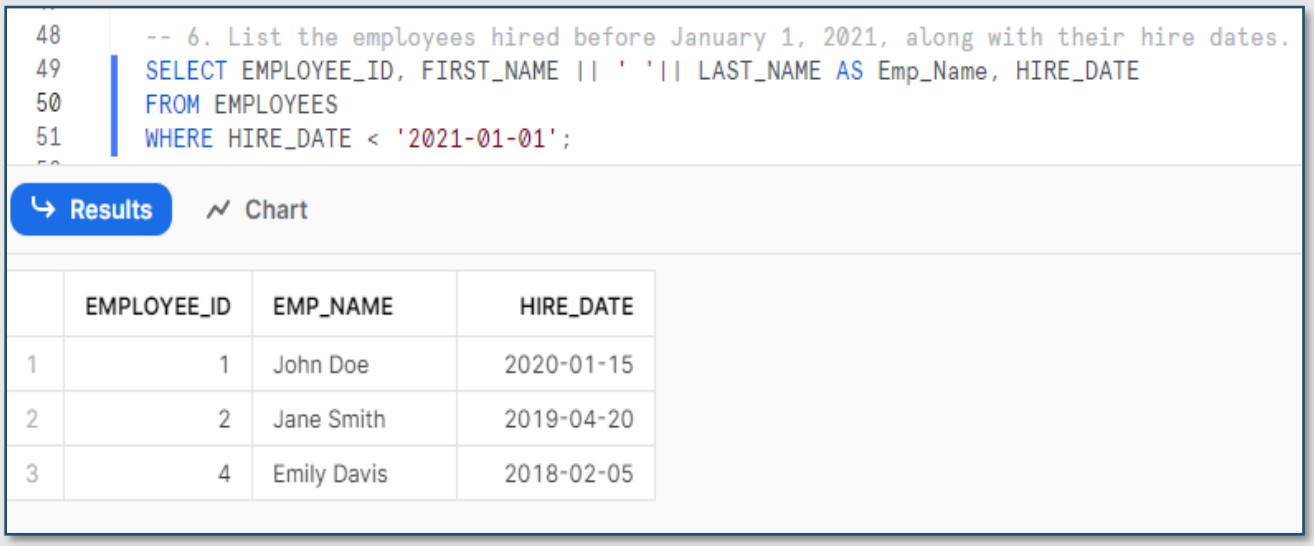
5. Find the employee with the highest salary.

```
SELECT * FROM EMPLOYEES
ORDER BY SALARY DESC
LIMIT 1;
```



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

```
SELECT EMPLOYEE_ID, FIRST_NAME || ' '|| LAST_NAME AS Emp_Name, HIRE_DATE
 FROM EMPLOYEES
 WHERE HIRE_DATE < '2021-01-01';
```



```
48  -- 6. List the employees hired before January 1, 2021, along with their hire dates.
49  SELECT EMPLOYEE_ID, FIRST_NAME || ' '|| LAST_NAME AS Emp_Name, HIRE_DATE
50  FROM EMPLOYEES
51  WHERE HIRE_DATE < '2021-01-01';
```

Results | Chart

	EMPLOYEE_ID	EMP_NAME	HIRE_DATE
1	1	John Doe	2020-01-15
2	2	Jane Smith	2019-04-20
3	4	Emily Davis	2018-02-05

********** THANK YOU **********