SQL ASSIGNMENT 02

PROBLEM STATEMENT

Write SQL queries to answer the following questions using the employee's table:

1. Retrieve the first and last names of all employees.
2. Find the total number of employees in the company.
3. Get the names of employees who work in the IT department.
4. Calculate the average salary of all employees.
5. Find the employee with the highest salary.
6. List the employees hired before January 1, 2021, along with their hire dates.

DATABASE

Created a Demodatabase in the Snowflake and then run a command **Use Database**

```
USE DATABASE DEMODATABASE;
```

Creating an **Employees Table**

```
--CREATING A EMPLOYESS 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
);
```

--INSERTING DATA INTO THE **EMPLOYEES TABLE**

```
INSERT INTO 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),
(5, 'DAVID', 'WILSON', 'IT', '2022-03-30', 62000);
```

Q1. Retrieve the first and last names of all employees

```
SELECT FIRST_NAME, LAST_NAME FROM EMPLOYEES;
```

OUTPUT

	FIRST_NAME	LAST_NAME
1	JOHN	DOE
2	JANE	SMITH
3	MICHAEL	JOHNSON
4	EMILY	DAVIS
5	DAVID	WILSON

Q2. Find the total number of employees in the company.

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

OUTPUT

	TOTAL_EMPLOYEE
1	5

Q3 Get the names of employees who work in the IT department

```sql
SELECT FIRST_NAME,LAST_NAME,DEPARTMENT
FROM EMPLOYEES
WHERE DEPARTMENT = 'IT';
```

OUTPUT

	FIRST_NAME	LAST_NAME	DEPARTMENT
1	JANE	SMITH	IT
2	DAVID	WILSON	IT

Q4 Calculate the average salary of all employees

```sql
SELECT ROUND(AVG(SALARY),0) AS AVERAGE_SALARY
FROM EMPLOYEES;
```

OUTPUT

	AVERAGE_SALARY
1	55,800

Q6. List the employees hired before January 1, 2021, along with their hire dates

```
SELECT FIRST_NAME,LAST_NAME,HIRE_DATE
FROM EMPLOYEES
WHERE HIRE_DATE < '2021-01-01' ;
```

OUTPUT

	FIRST_NAME	LAST_NAME ···	HIRE_DATE
1	JOHN	DOE	2020-01-15
2	JANE	SMITH	2019-04-20
3	EMILY	DAVIS	2018-02-05