SQL ASSIGNMENT 2

Instructions :

- ***Reference: Lectures In Snowflake & SQL folder (AWA - APP+WEBSITE)***
- ***Due Date : 30th-Sept-2023 11:59 PM(Midnight)***
- ***Late submissions will not be evaluated***
- ***Its mandatory to do all questions***
- ***Use SNOWFLAKE for the task submission while for practice one can execute in MySQL Workbench too.***
- ***Proper comments should be given for the code explanation wherever required.***
- ***Proper snippets should be attached of the output(mandatory) and write the code too.***
- ***Don't do plagiarism***
- ***Kindly don't USE JOINS or WINDOWS functions in any of the problems.***
- ***Kindly upload the assignment by uploading it in the below GOOGLE DRIVE FOLDER as per the mentioned format(only pdf) as fullname_assignment_name_yyyy_mm_dd.pdf(anandjha_sql_assignment2_2023_09_13.pdf) :***

https://drive.google.com/drive/folders/1SN6i0WaGI9eV2Cg5p7fkUyfCSTkEOgO3?usp=drive_link

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 TABLE employees (
    employee_id INT PRIMARY KEY,
    first_name VARCHAR(50),
    last_name VARCHAR(50),
```

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```
    department VARCHAR(50),
    hire_date DATE,
    salary INT
);
```

Insert Data: Insert the following sample 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);
```

Write SQL queries to answer the following questions using the employees 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.

Submission:

Submit the SQL queries for the questions above along with their results.

Note:

1. Please use appropriate SQL syntax.
2. Ensure that your queries are efficient and optimized.
3. Provide the SQL queries and the results in your submission.