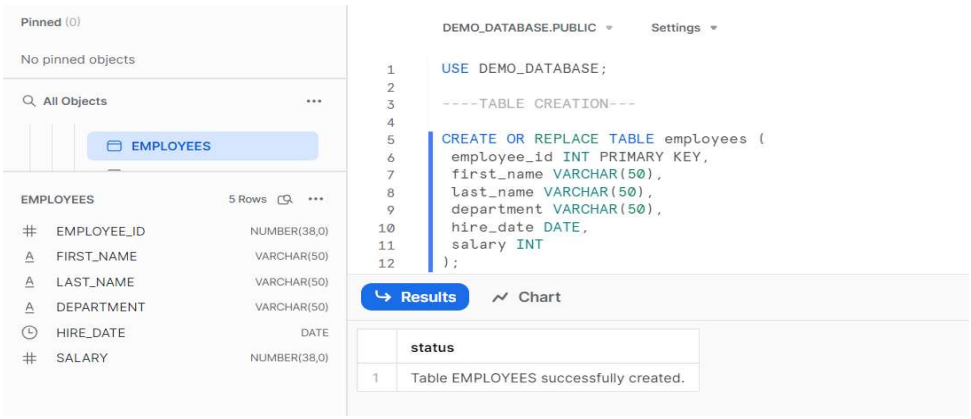
ASSIGNMENT 2

TABLE CREATION IN DEMO_DATABASE

Table Name - EMPLOYEES

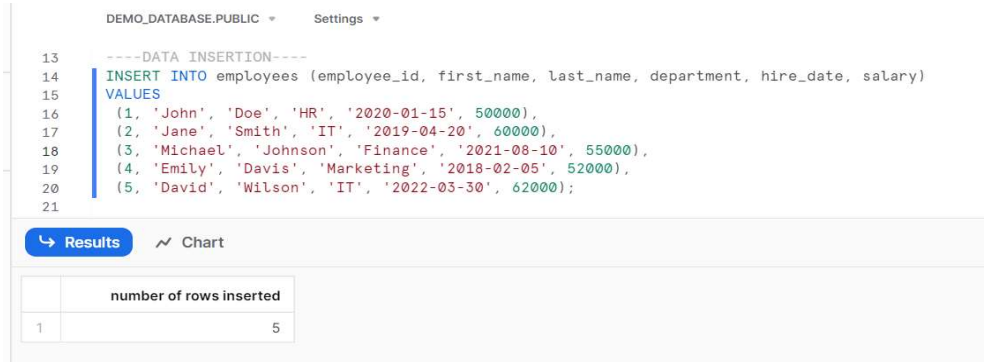
```
USE DEMO_DATABASE;

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 );
```



DATA INSERTION

```
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);
```

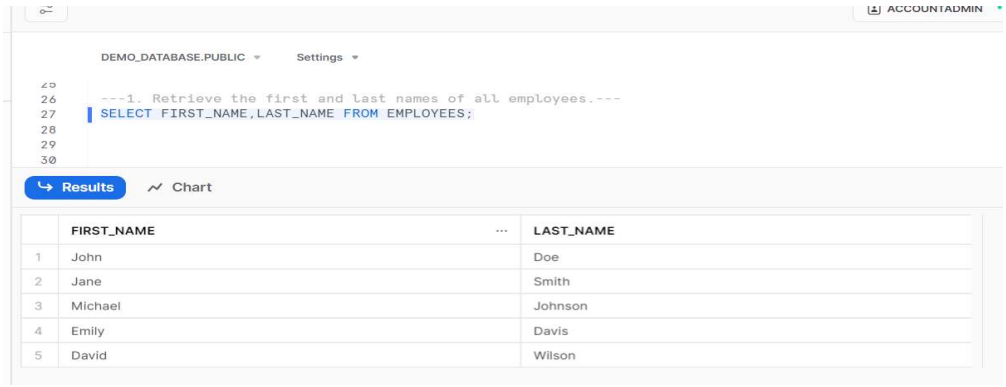


SELECT * FROM DEMO_DATABASE.PUBLIC.EMPLOYEES;

	EMPLOYEE_ID	FIRST_NAME	LAST_NAME	DEPARTMENT	HIRE_DATE	SALARY
1	1	John	Doe	HR	2020-01-15	50,000
2	2	Jane	Smith	IT	2019-04-20	60,000
3	3	Michael	Johnson	Finance	2021-08-10	55,000
4	4	Emily	Davis	Marketing	2018-02-05	52,000
5	5	David	Wilson	IT	2022-03-30	62,000

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

SELECT FIRST_NAME, LAST_NAME FROM EMPLOYEES;



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

	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(EMPLOYEE_ID) FROM EMPLOYEES;

--There are total **5** employees in company --

```
--2. Find the total number of employees in the company.--
SELECT COUNT(EMPLOYEE_ID) FROM EMPLOYEES;
```

	COUNT(EMPLOYEE_ID)
1	5

---

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

SELECT CONCAT(FIRST_NAME ,' ', LAST_NAME) AS EMPLOYEE_NAME, DEPARTMENT
FROM DEMO_DATABASE.PUBLIC.EMPLOYEES
WHERE DEPARTMENT= 'IT';

```
32
33    --3.Get the names of employees who work in the IT department.--
34    SELECT CONCAT(FIRST_NAME,' ',LAST_NAME) AS EMPLOYEE_NAME, DEPARTMENT FROM DEMO_DATABASE.PUBLIC.EMPLOYEES
35    WHERE DEPARTMENT= 'IT'
36    ;
37
```

Results | Chart

	EMPLOYEE_NAME	DEPARTMENT
1	Jane Smith	IT
2	David Wilson	IT

---

4. Calculate the average salary of all employees.

SELECT ROUND(AVG(SALARY),1) AS AVG_SALARY FROM EMPLOYEES;

the average salary of all employees is **55800**

---

5. Find the employee with the highest salary

We can find in 2 ways:
1 method:

```
SELECT CONCAT(FIRST_NAME,' ',LAST_NAME) AS NAME, MAX(SALARY) AS HIGHEST_SALARY
FROM DEMO_DATABASE.PUBLIC.EMPLOYEES
GROUP BY 1
ORDER BY 2  DESC                --(here 'GROUP BY' is optional)--
LIMIT 1;
```

2 method:

```
SELECT EMPLOYEE_ID, CONCAT(FIRST_NAME,' ',LAST_NAME) AS EMPLOYEE_NAME,SALARY
FROM DEMO_DATABASE.PUBLIC.EMPLOYEES
ORDER BY  3 DESC
LIMIT 1;
```

David Wilson has the highest salary- ***62,000***

```sql
--5. Find the employee with the highest salary--
--method 1--
SELECT EMPLOYEE_ID, CONCAT(FIRST_NAME,' ',LAST_NAME) AS EMPLOYEE_NAME,SALARY
FROM DEMO_DATABASE.PUBLIC.EMPLOYEES
ORDER BY  3 DESC
LIMIT 1;

--method2--

SELECT CONCAT(FIRST_NAME,' ',LAST_NAME) AS NAME, MAX(SALARY) AS HIGHEST_SALARY
FROM DEMO_DATABASE.PUBLIC.EMPLOYEES
GROUP BY 1
ORDER BY 2 DESC                         --(here GROUP BY is optional)--
LIMIT 1;
```

Results | Chart

	EMPLOYEE_ID	EMPLOYEE_NAME	SALARY
1	5	David Wilson	62,000

---

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

SELECT EMPLOYEE_ID,CONCAT(FIRST_NAME,' ',LAST_NAME) AS EMPLOYEE_NAME, HIRE_DATE
FROM DEMO_DATABASE.PUBLIC.EMPLOYEES
WHERE HIRE_DATE < '2020-01-01';

```sql
--6. List the employees hired before January 1, 2021, along with their hire dates.--
SELECT EMPLOYEE_ID,CONCAT(FIRST_NAME,' ',LAST_NAME) AS EMPLOYEE_NAME, HIRE_DATE
FROM DEMO_DATABASE.PUBLIC.EMPLOYEES
WHERE HIRE_DATE < '2020-01-01';
```

Results | Chart

	EMPLOYEE_ID	EMPLOYEE_NAME	HIRE_DATE
1	2	Jane Smith	2019-04-20
2	4	Emily Davis	2018-02-05
