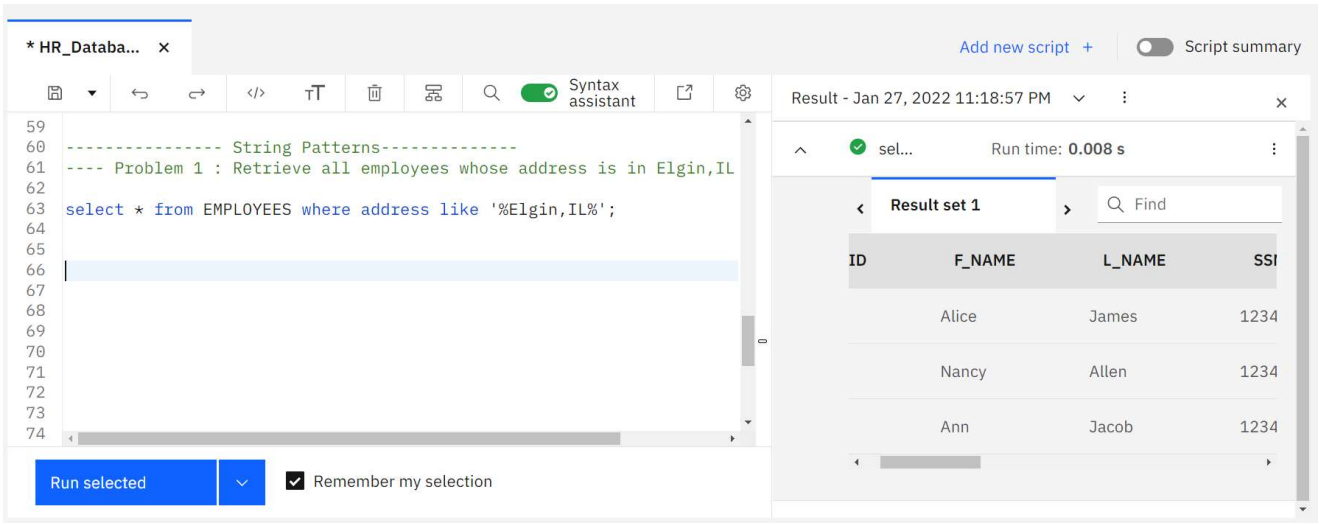
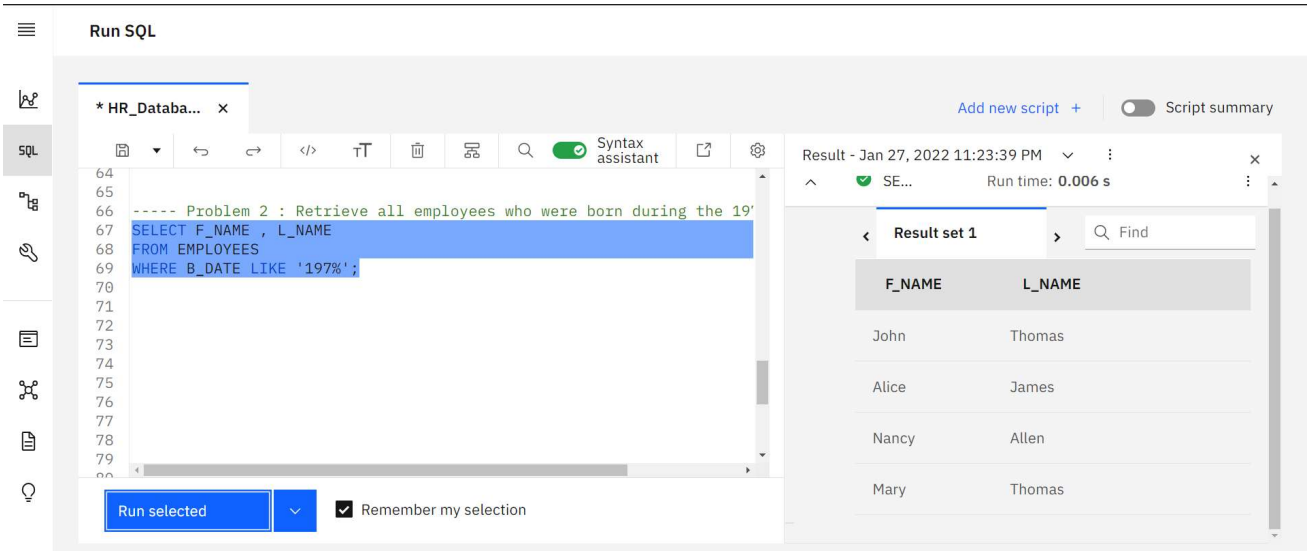
27 January 2022 11:19 PM

String Patterns

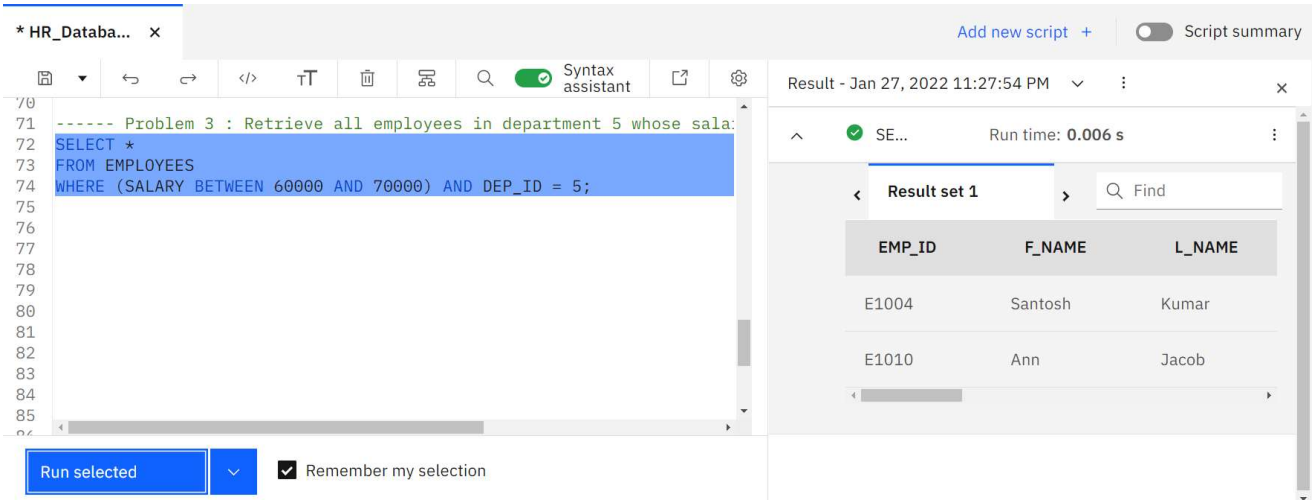
1. Problem 1 : Retrieve all employees whose address is in Elgin,IL.



2. Problem 2 : Retrieve all employees who were born during the 1970's.

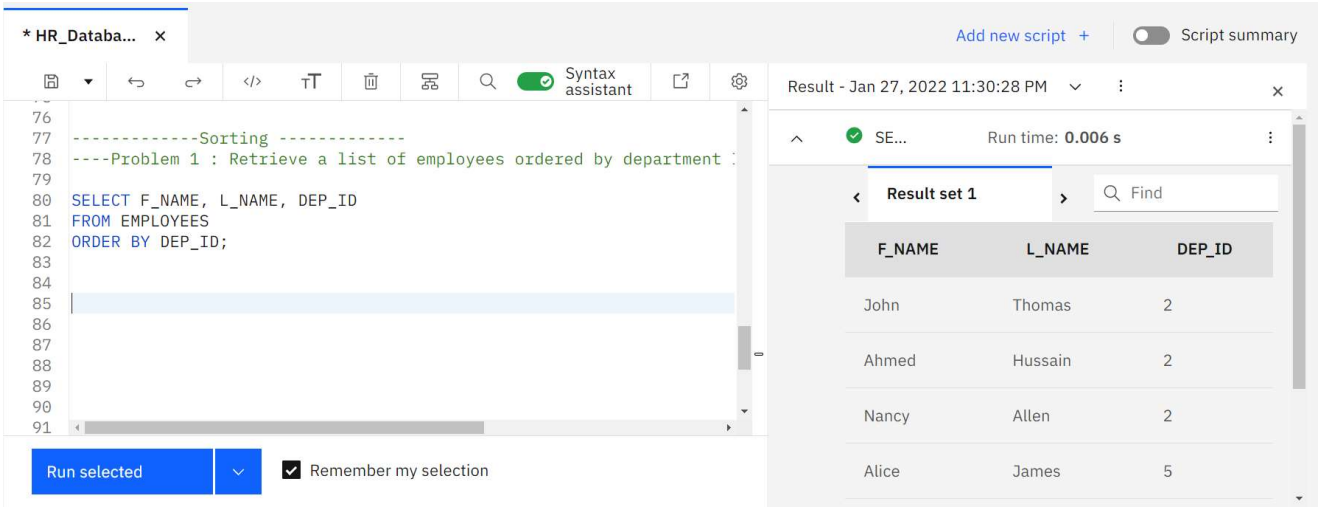


3. **Problem 3 : Retrieve all employees in department 5 whose salary is between 60000 and 70000.**

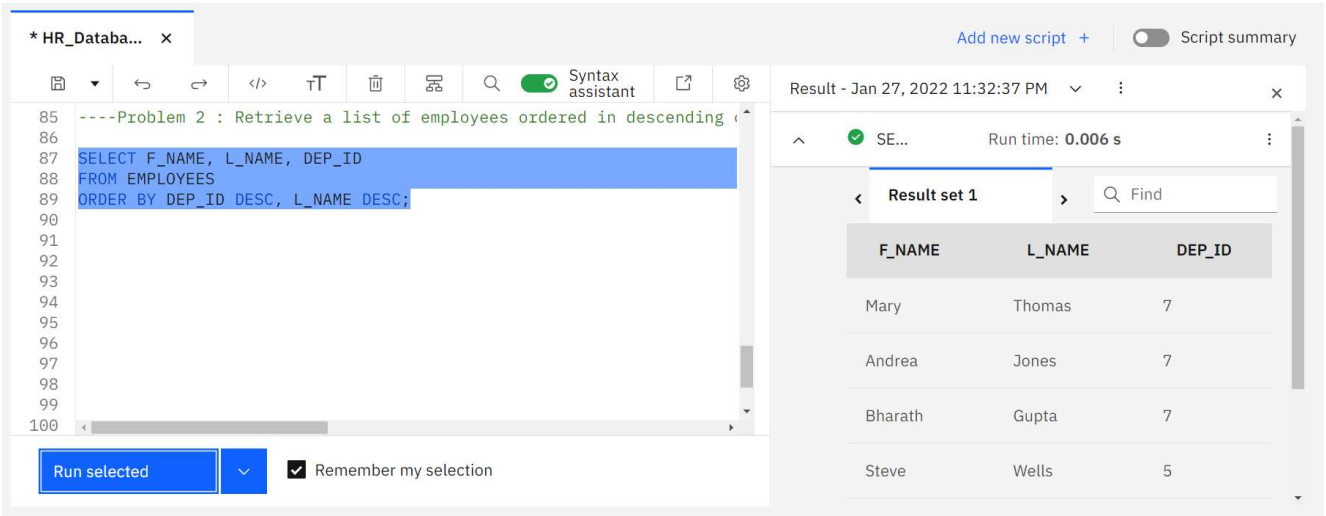


Sorting

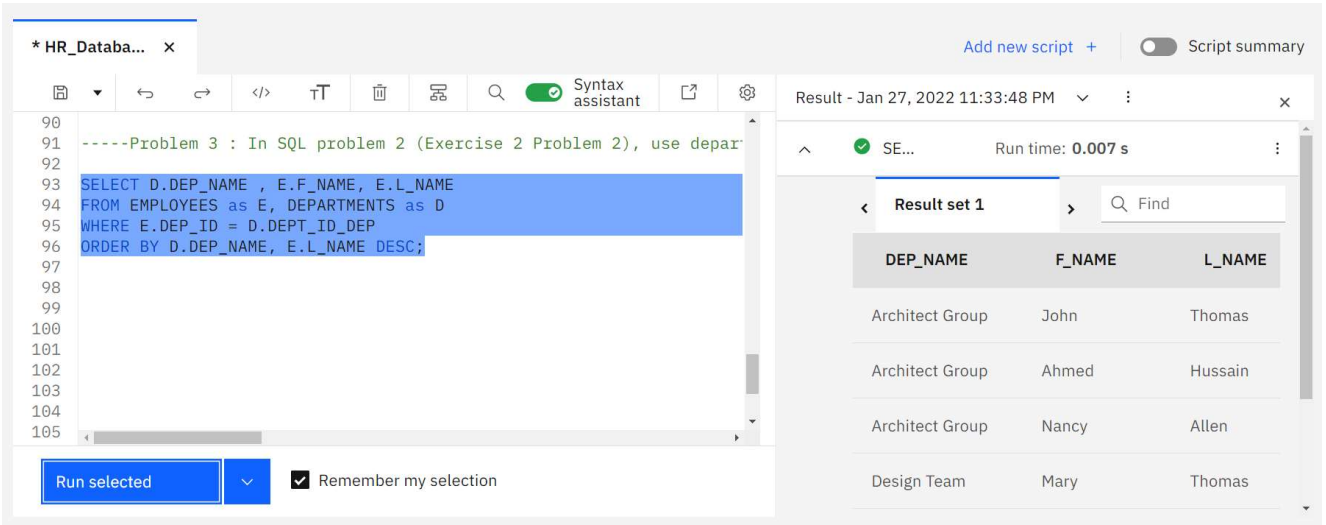
1. **Problem 1 : Retrieve a list of employees ordered by department ID**



2. **Problem 2 : Retrieve a list of employees ordered in descending order by department ID and within each department ordered alphabetically in descending order by last name**

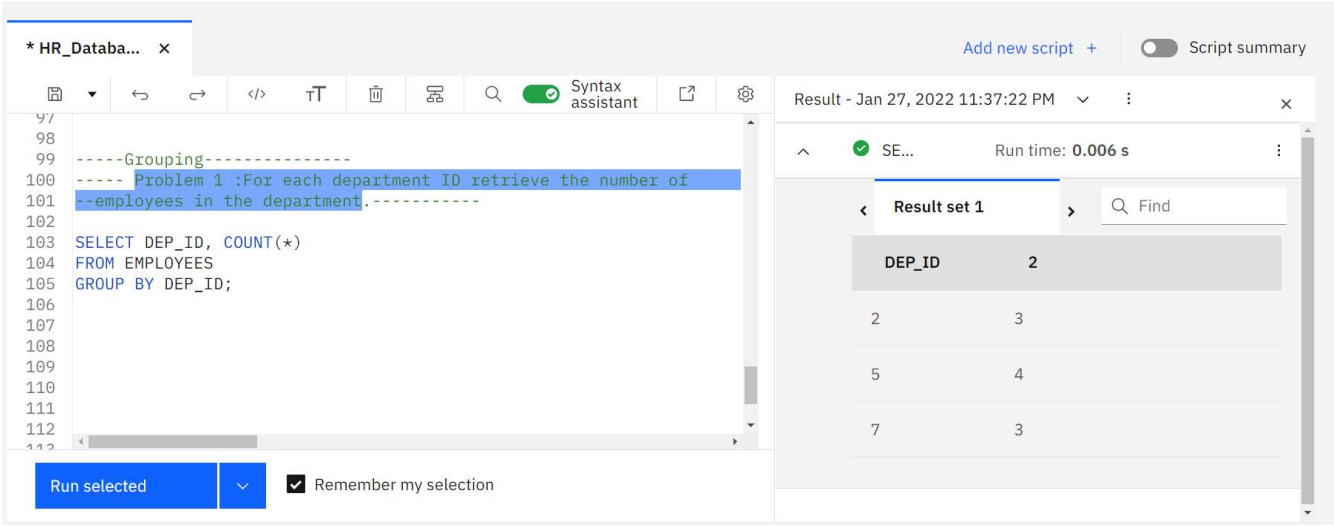


3. **Problem 3 : In SQL problem 2, use department name instead of department ID. Retrieve a list of employees ordered by department name, and within each department ordered alphabetically in descending order by last name.**



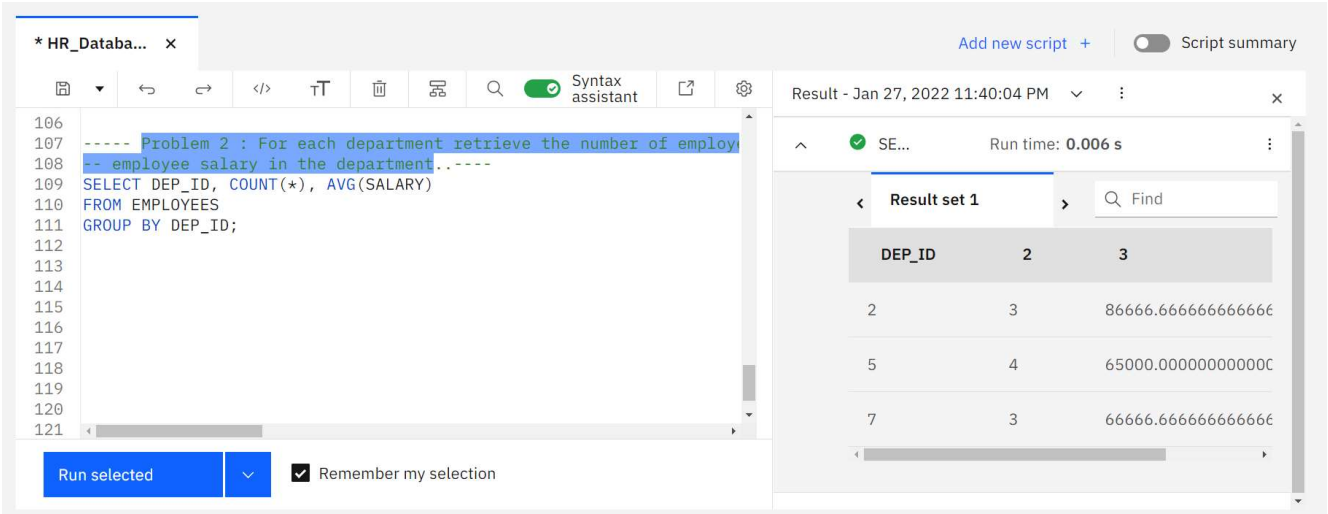
Grouping

1) Problem 1 :For each department ID retrieve the number of employees in the department



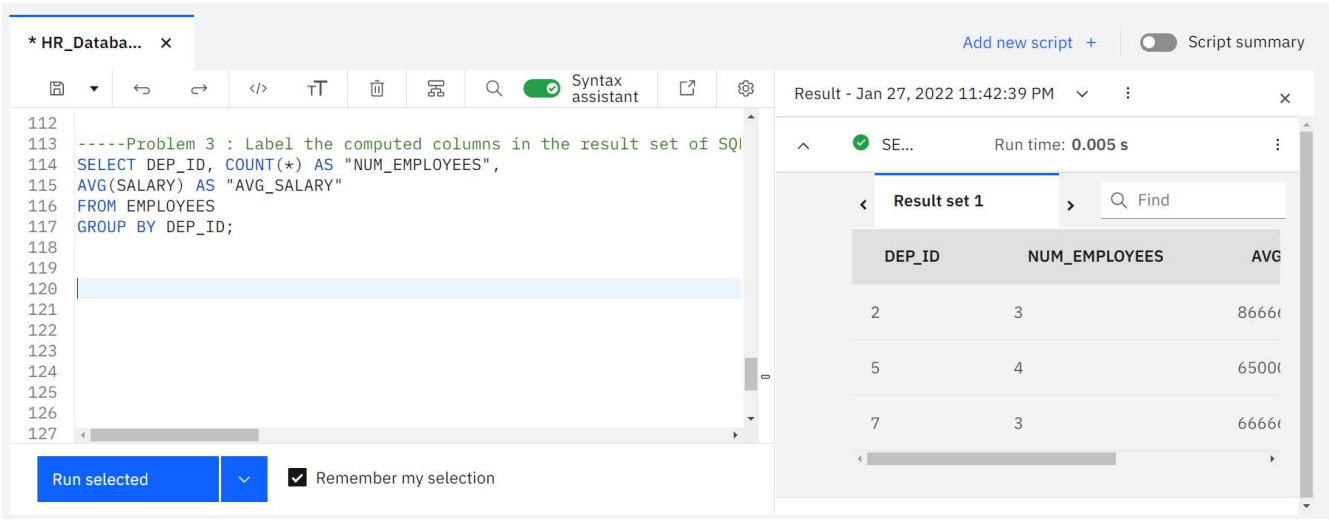

```
-----Grouping---------------
----- Problem 1 :For each department ID retrieve the number of
--employees in the department.-----------

SELECT DEP_ID, COUNT(*)
FROM EMPLOYEES
GROUP BY DEP_ID;
```

2) Problem 2 : For each department retrieve the number of employees in the department, and the average employee salary in the department

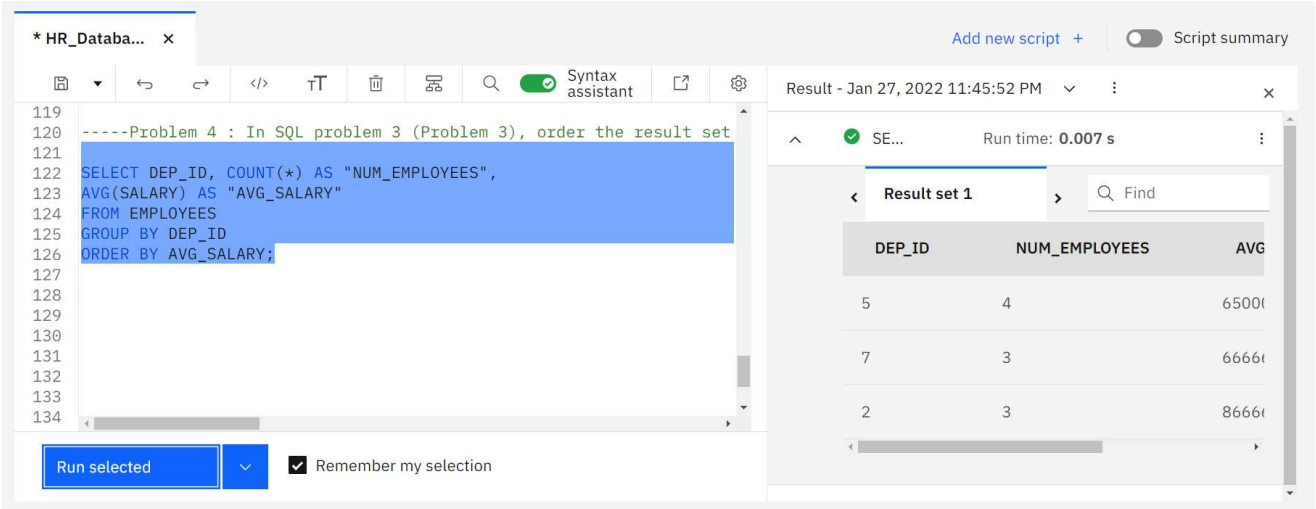



```
----- Problem 2 : For each department retrieve the number of employ
-- employee salary in the department..----
SELECT DEP_ID, COUNT(*), AVG(SALARY)
FROM EMPLOYEES
GROUP BY DEP_ID;
```

3) **Problem 3 : Label the computed columns in the result set of SQL problem 2 as NUM_EMPLOYEES and AVG_SALARY**



4) **Problem 4 : In SQL problem 3 (Problem 3), order the result set by Average Salary..**



5) **Problem 5: In SQL problem 4 (Problem 4), limit the result to departments with fewer than 4 employees**