2CS402 – DBMS INNOVATIVE ASSIGNMENT

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Project Title:

SQL TO RA USING PYTHON WITH STREAMLIT GUI.

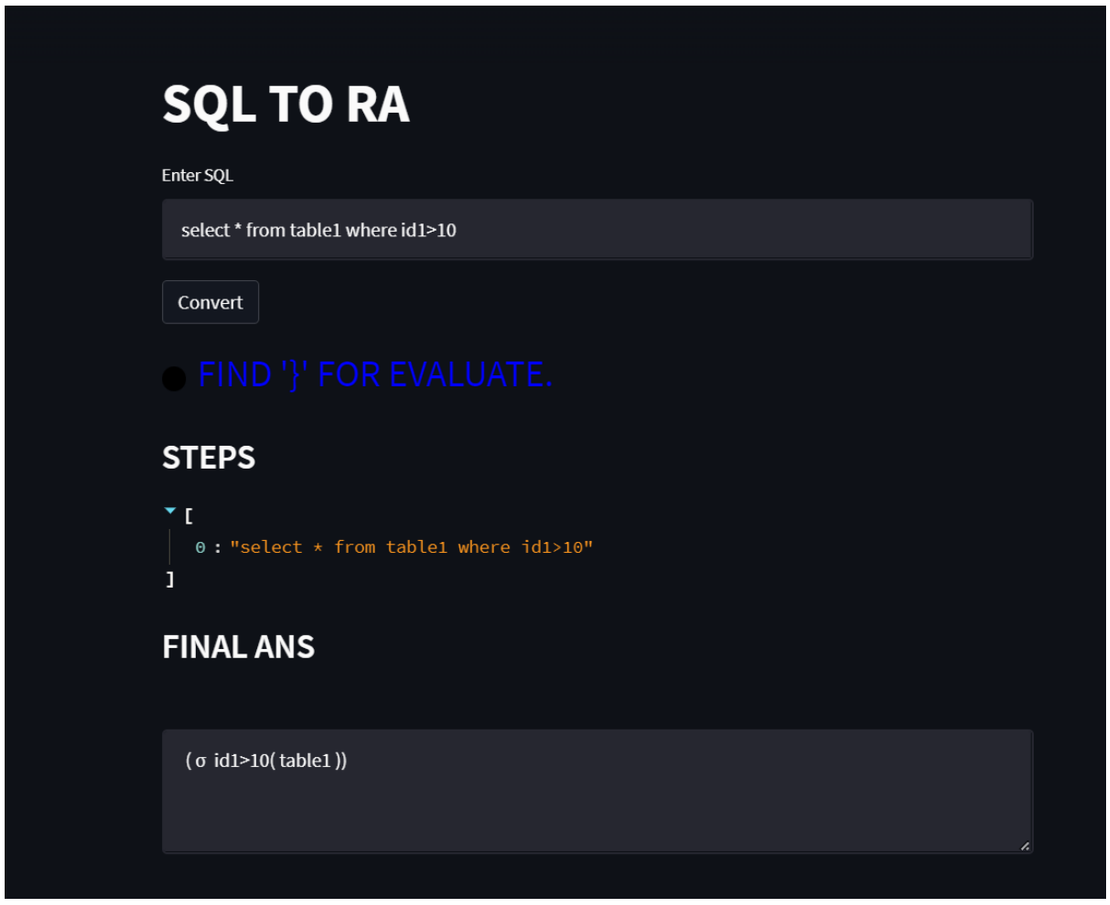
Explanation of assignment:

Features:

- In this innovative we have add streamlit graphical user interface it.
- In this gui we have first inputbox for enter sql.
- Then we also put convert button in it.
- Then we can show step in it.
- Then we can put outputbox for show Relational Algebra.

Screenshorts :

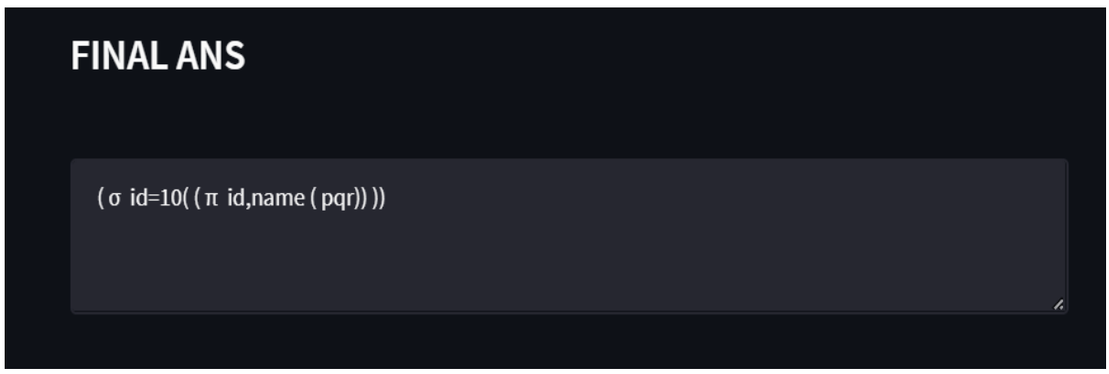
1)



- In this we have evaluate basic query using index of select, from and where we have convert the SQL to R.A.

- We have substitute select keyword with **pi and sigma.** We can different pi and sigma using where index in our program.

2)

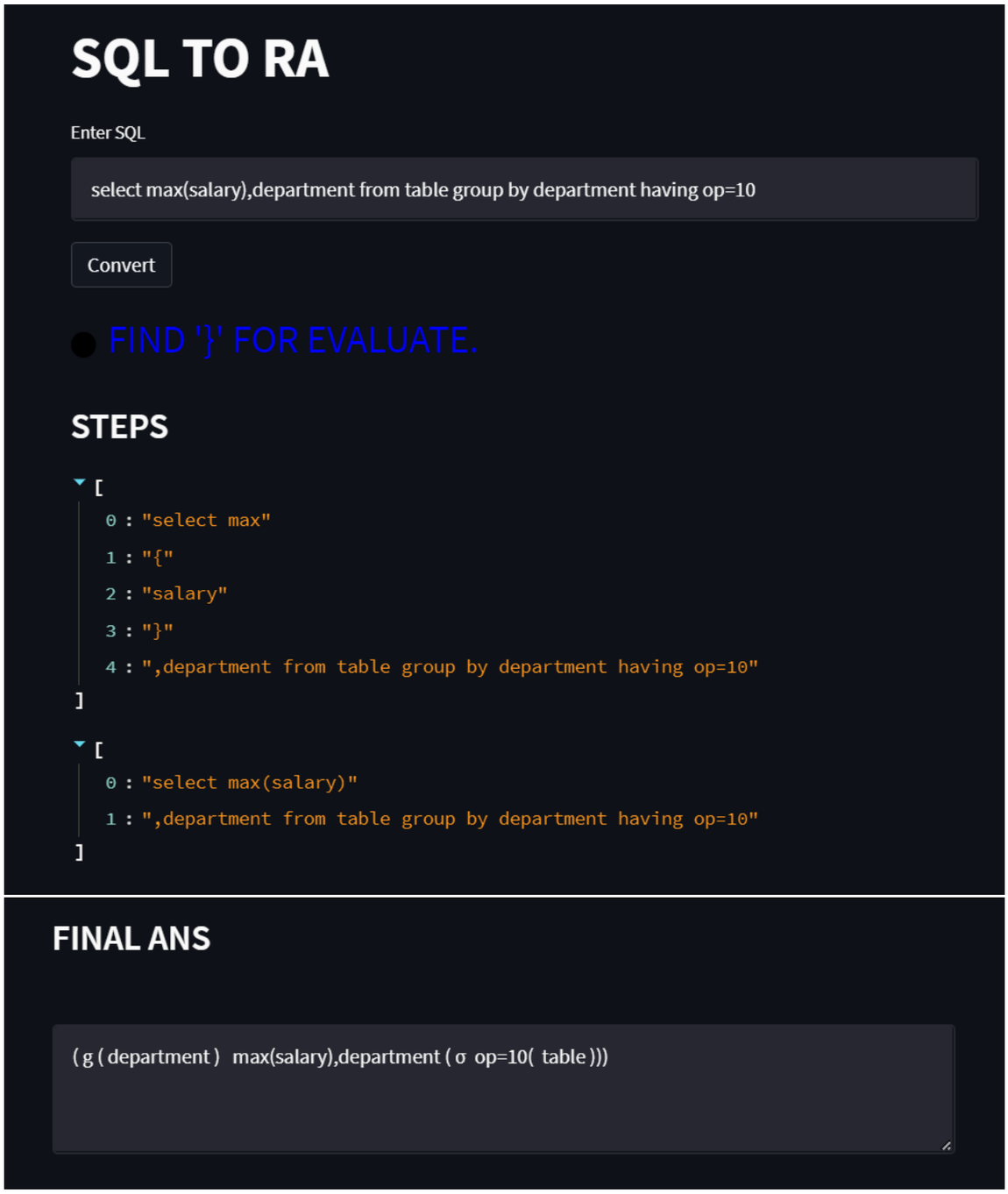


- In this we have first substitute simple bracket with curly bracket and then evaluate query as a basic query as above explains and another part of query evaluate we can show in steps.

3)

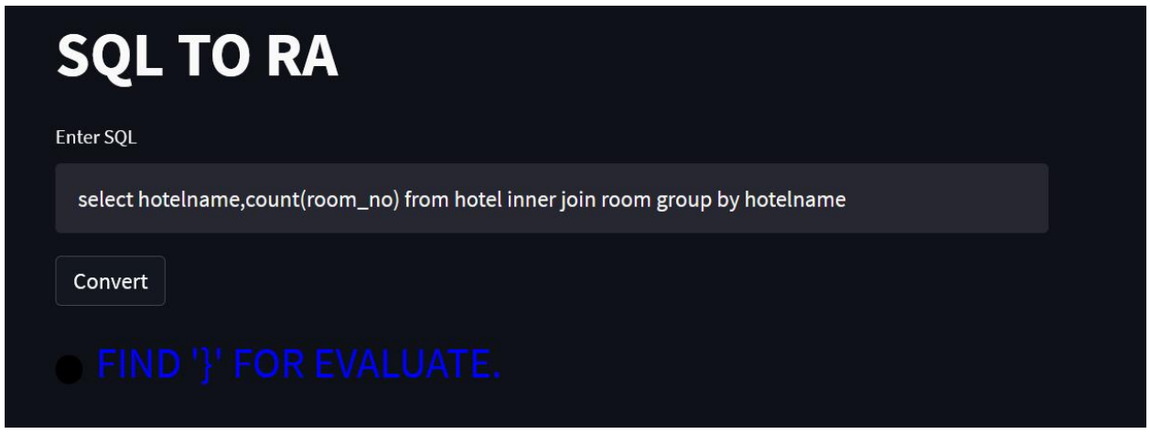
- In this SQL query we have lots inner query in it. So they can evaluate all inner query's one by one we have get proper RA output.

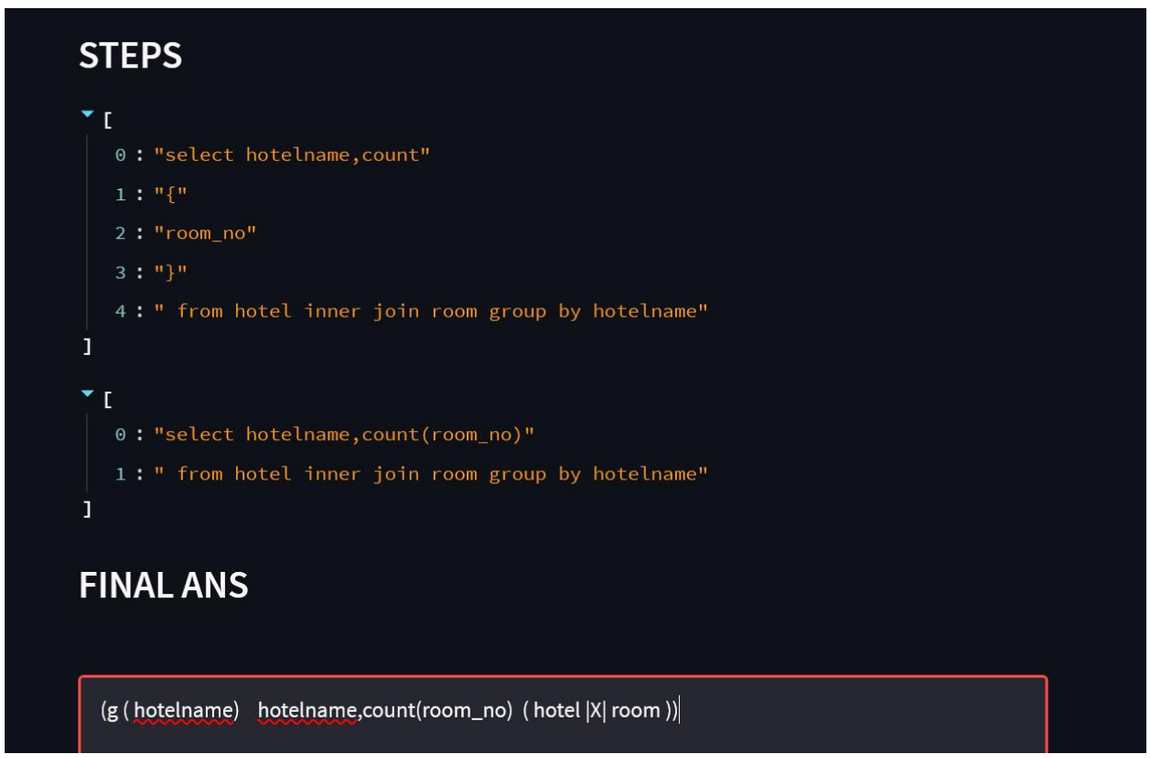
4)



- In this program we can also put aggregate function SQL query in it. Also we can get related R.A. form it.

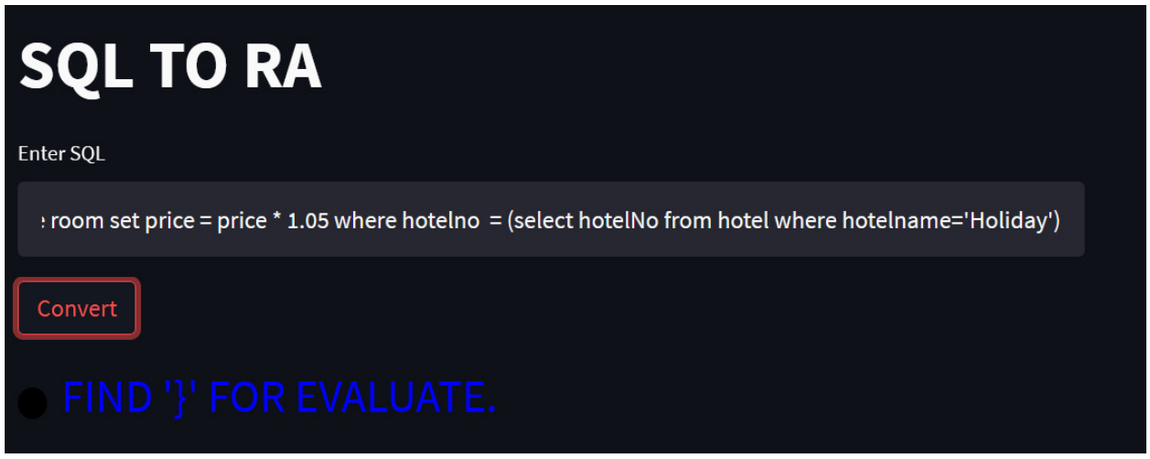
5)

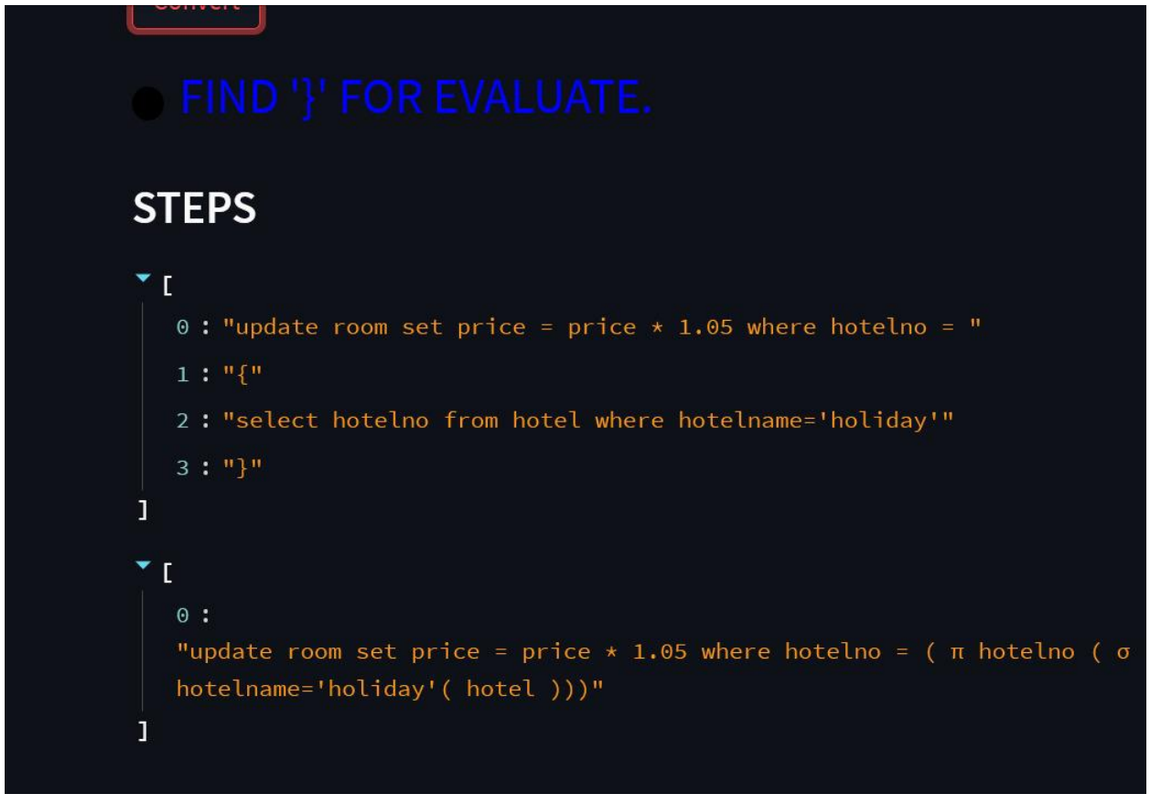




- In this program we have use aggregate function and inner join complex SQL query in it and we can get R.A. form of it.

6)





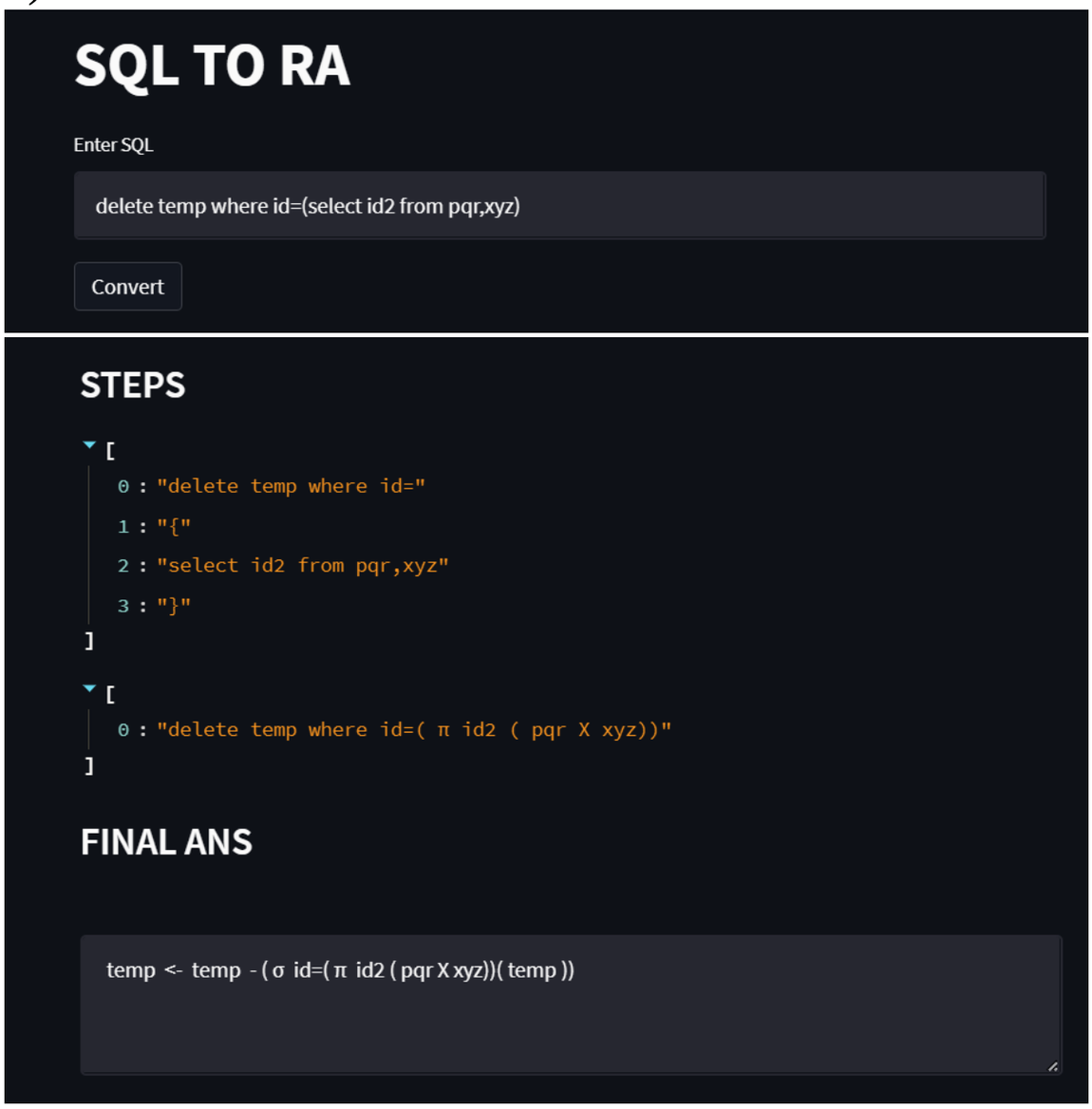
- In this program we can use update SQL query also in it and we can show in steps first we

evaluate inner query in it and then we can evaluate update function in it.

7)

- In this program we can get output of join SQL query and also we use AND,OR etc.. in it and we can get respect output of R.A..

8)



- In this program we can also get output of delete SQL query and also we get output of cartesian SQL query in it.
