ORACLE LAB

BCA-DS-552

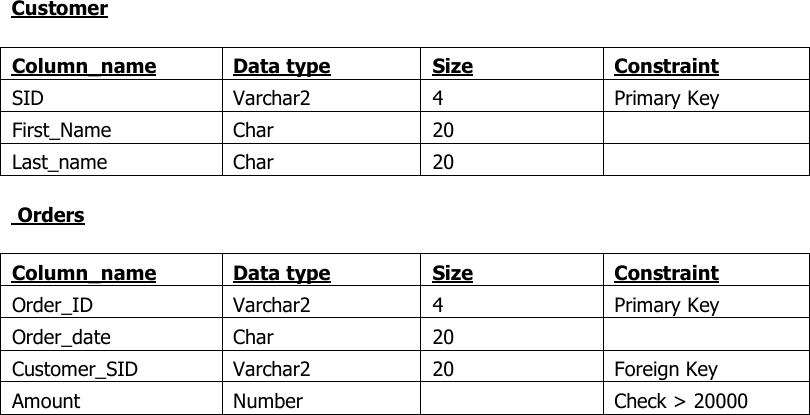
**Manav Rachna International Institute of Research and Studies School of Computer Applications**

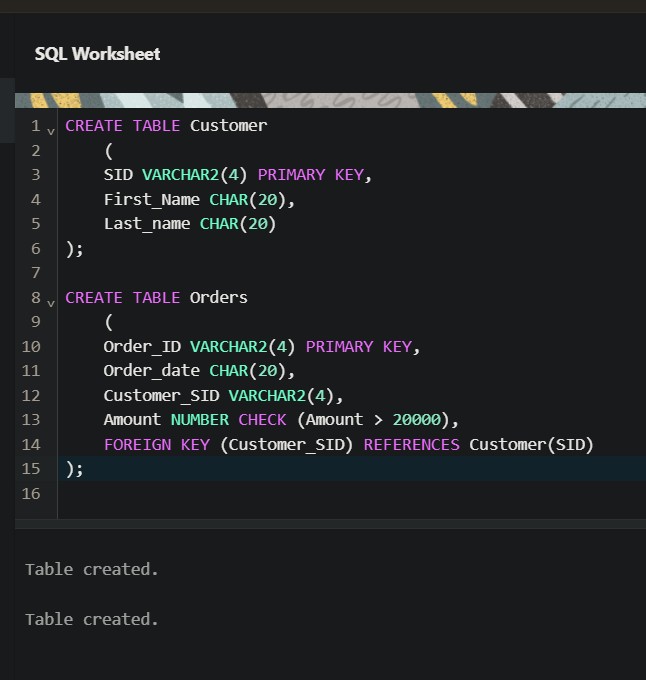
**Department of Computer Applications**

|  |  |
| --- | --- |
| **Submitted By** | |
| **Student Name** | **Ojas Zutshi** |
| **Roll No** | **22/FCA/BCA(DS&BDA)/013** |
| **Programme** | **Bachelor of Computer Applications** |
| **Semester** | **5th Semester** |
| **Section** | **E** |
| **Department** | **Computer Applications** |
| **Batch** | **2022-25** |
|  | |
| **Submitted To** | |
| **Faculty Name** | **Ms. Iram Fatima** |

|  |  |
| --- | --- |
|  | **SCHOOL OF COMPUTER APPLICATIONS** |

**EXERCISE 1**

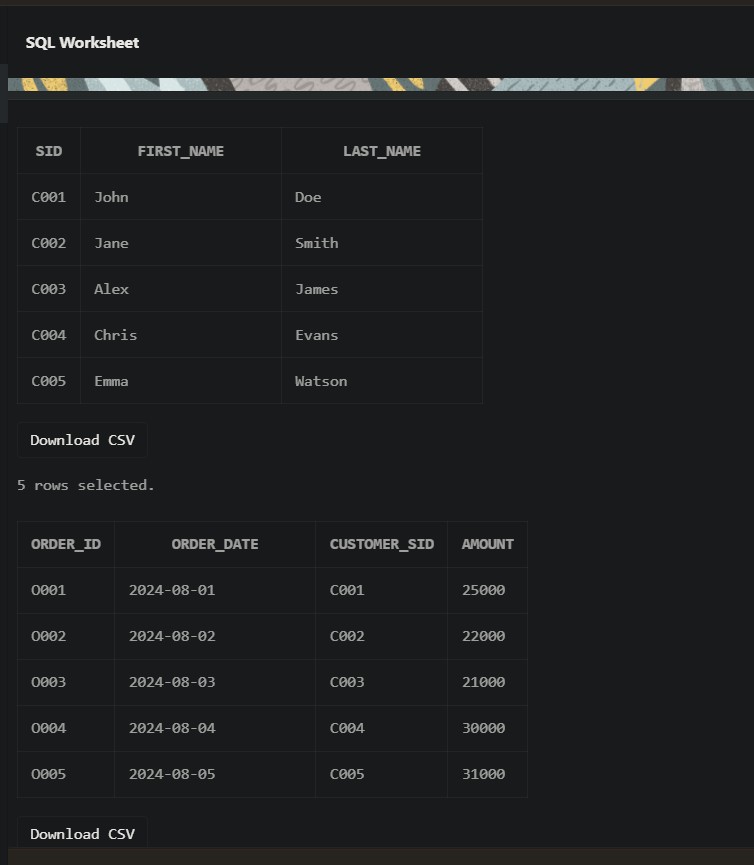
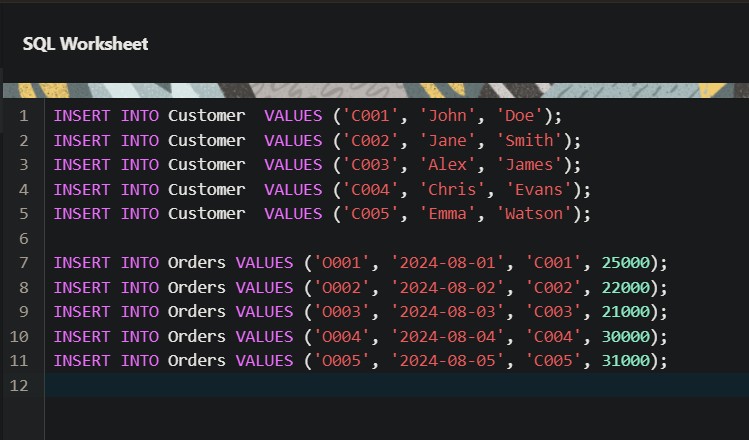
**AIM**: Create the following table.

**Output:**

**EXERCISE 2**

**AIM:** Insert 5 records for each table.

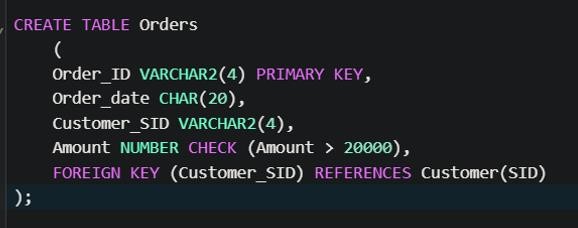
**Output:**



**EXERCISE 3**

**AIM:** Customer SID column in the ORDERS table is a foreign key pointing to the SID column in the CUSTOMER table.

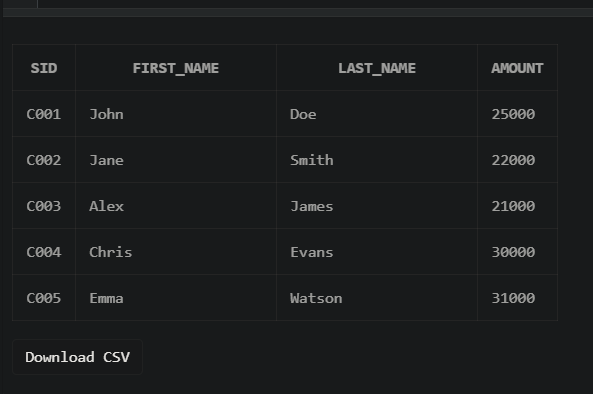
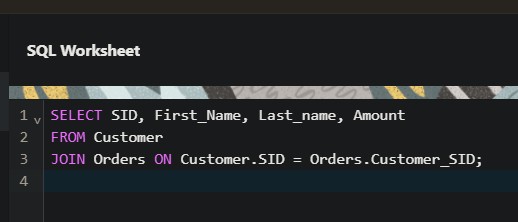
**Output:**



**EXERCISE 4**

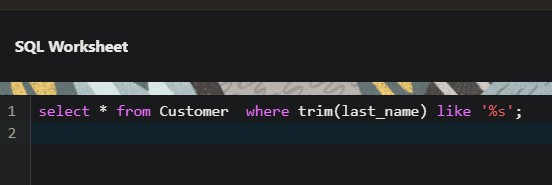
**AIM:** List the details of the customers along with the amount.

**Output:**



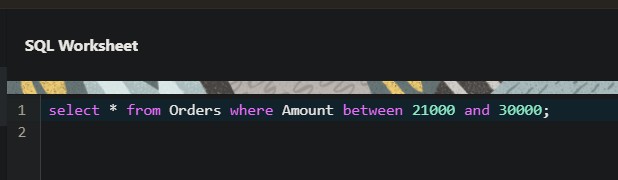
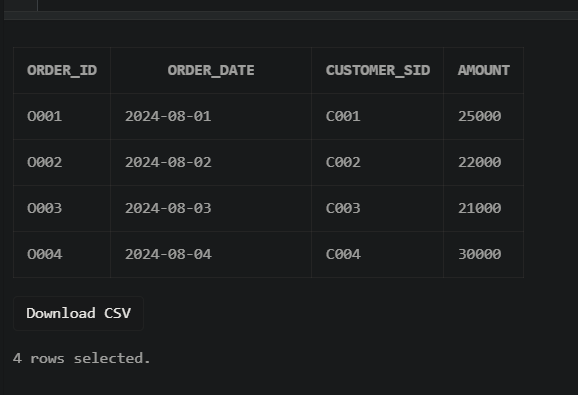
**EXERCISE 5**

**AIM:** List the customers whose names end with “s”.

**Output:**

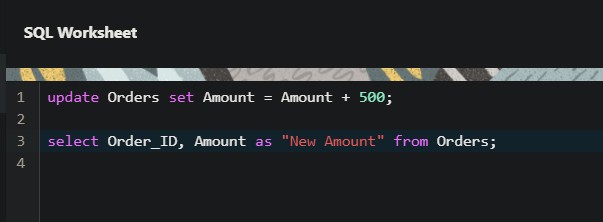
**EXERCISE 6**

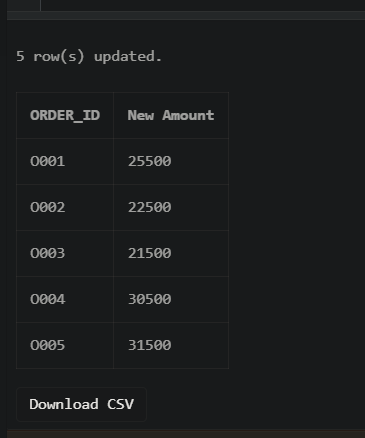
**AIM:** List the orders where amount is between 21000 and 30000

**Output:**

**EXERCISE 7**

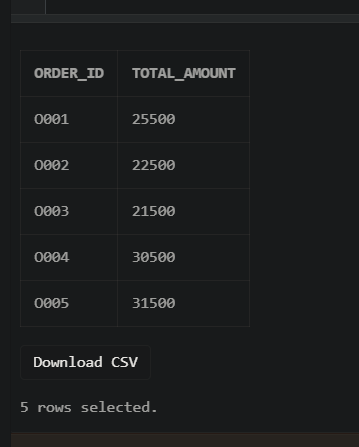
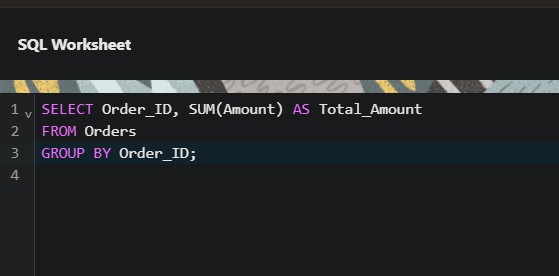
**AIM:** List the orders where amount is increased by 500 and replace with name “new amount”**.**

**Output:**



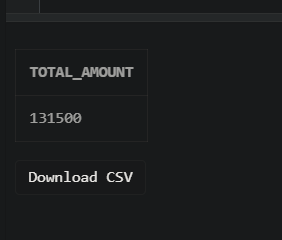
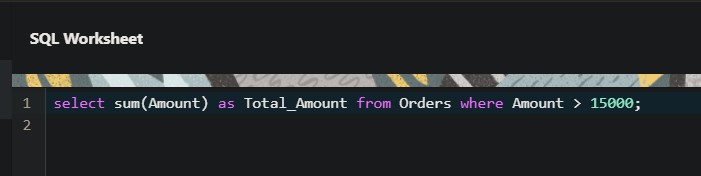
**EXERCISE 8**

**AIM:** Display the order\_id and total amount of orders.

**Output:**

**EXERCISE 9**

**AIM:** Calculate the total amount of orders that has more than 15000.

**Output:**

**EXERCISE 10**

**AIM:** Display all the string functions used in SQL.

**Output:**

SELECT

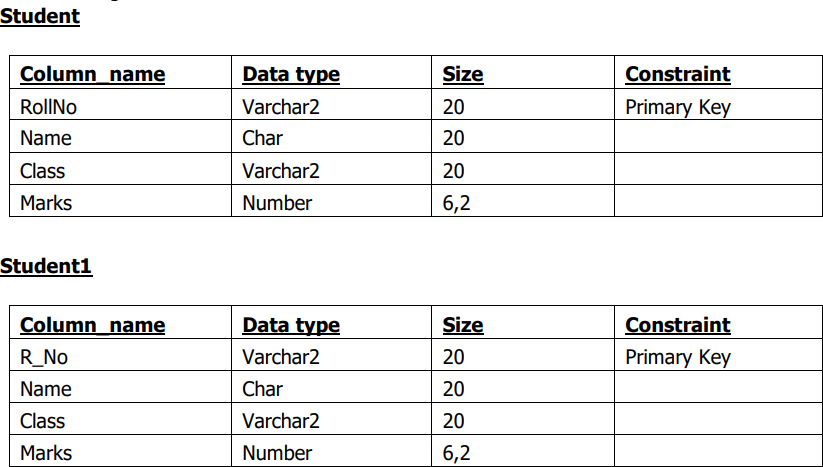
LOWER('ORACLE') AS "Lowercase", -- Converts string to lowercase UPPER('oracle') AS "Uppercase", -- Converts string to uppercase SUBSTR('ORACLE', 2, 3) AS "Substring", -- Extracts substring

LENGTH('ORACLE') AS "Length”, -- Returns length of string INSTR('ORACLE', 'A') AS "Position", -- Returns position of a character LPAD('123', 5, '0') AS "Left Padding", -- Pads a string on the left RPAD('123', 5, '0') AS "Right Padding",-- Pads a string on the right TRIM('O' FROM 'ORACLE') AS "Trimmed" -- Trims a specified character

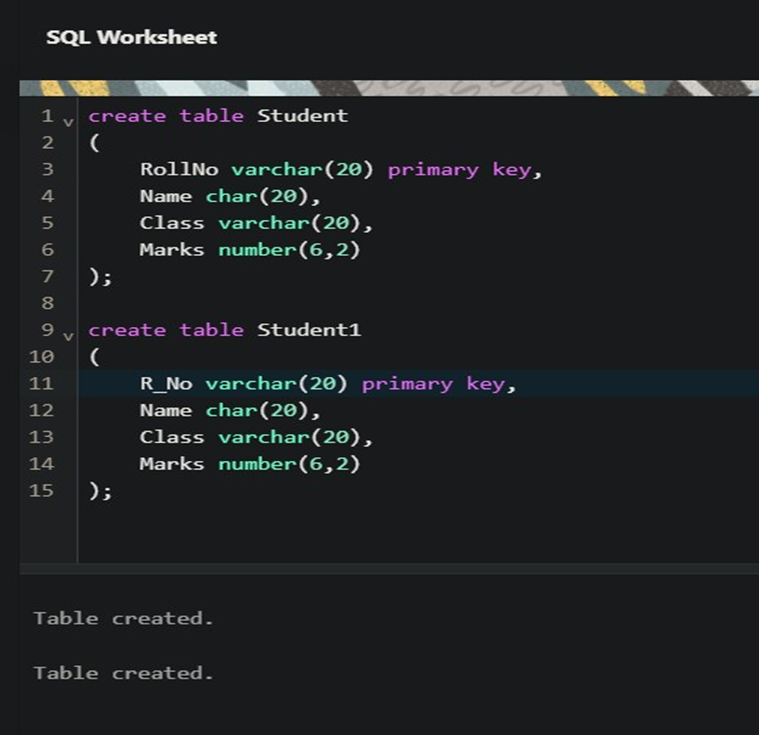
FROM DUAL;

**EXERCISE 11**

**AIM:** Create the following tables.

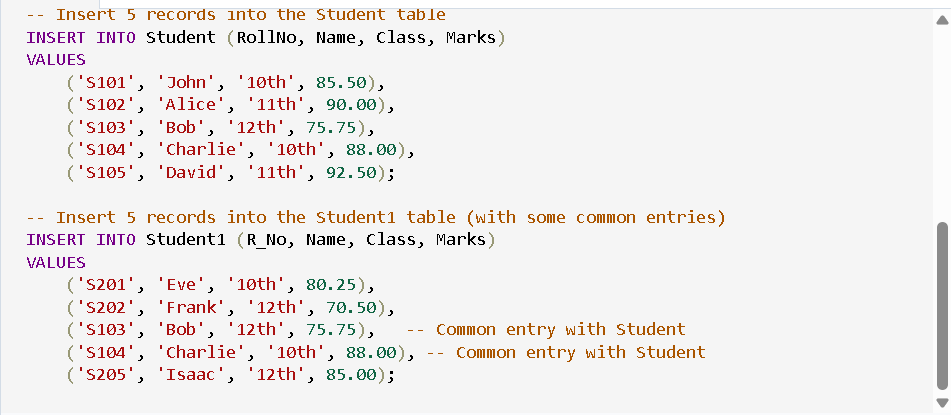


Output:

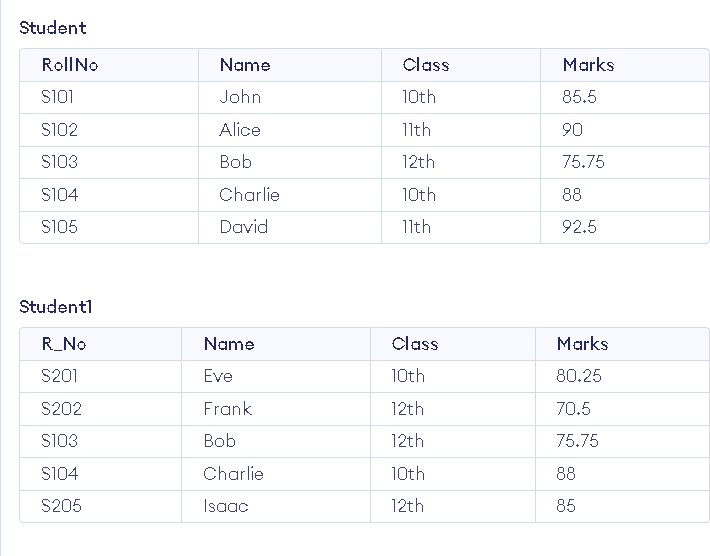


EXERCISE 12

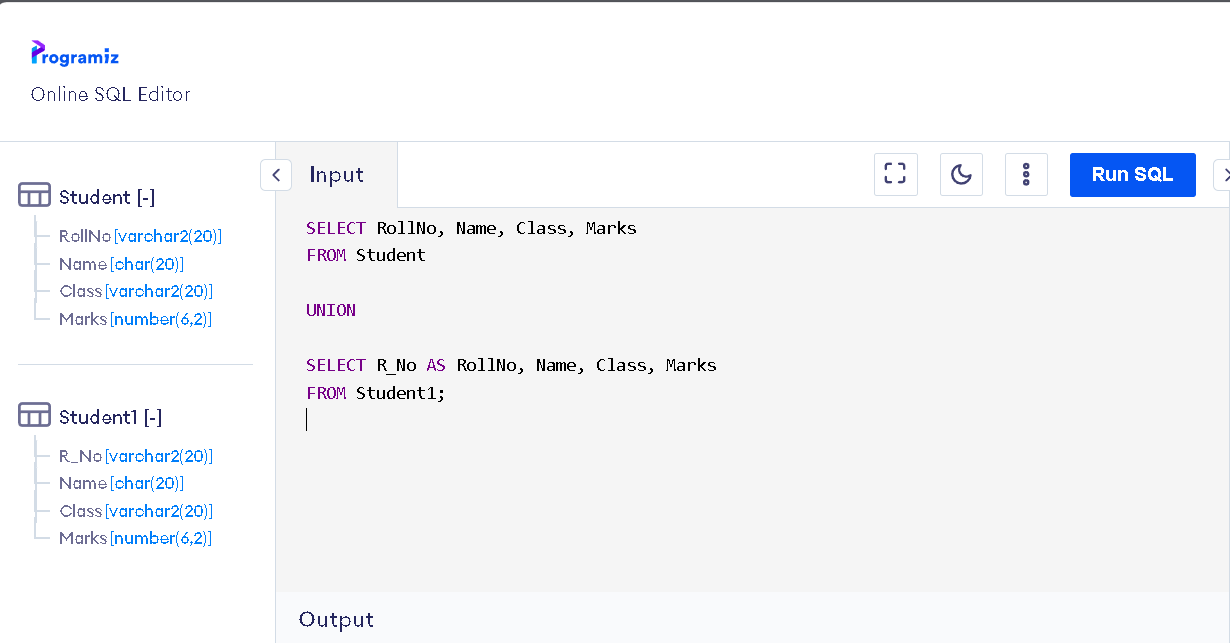
AIM: Display all the contents of student and student1 using union clause. First insert 5 records in each table i.e. Student and Student1



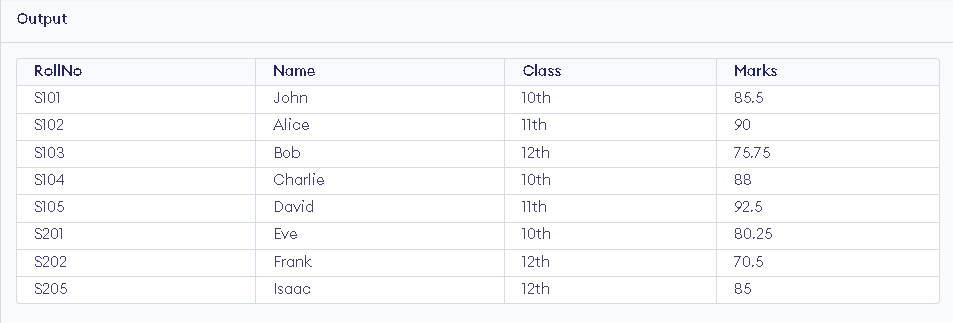
Output:



Now union:

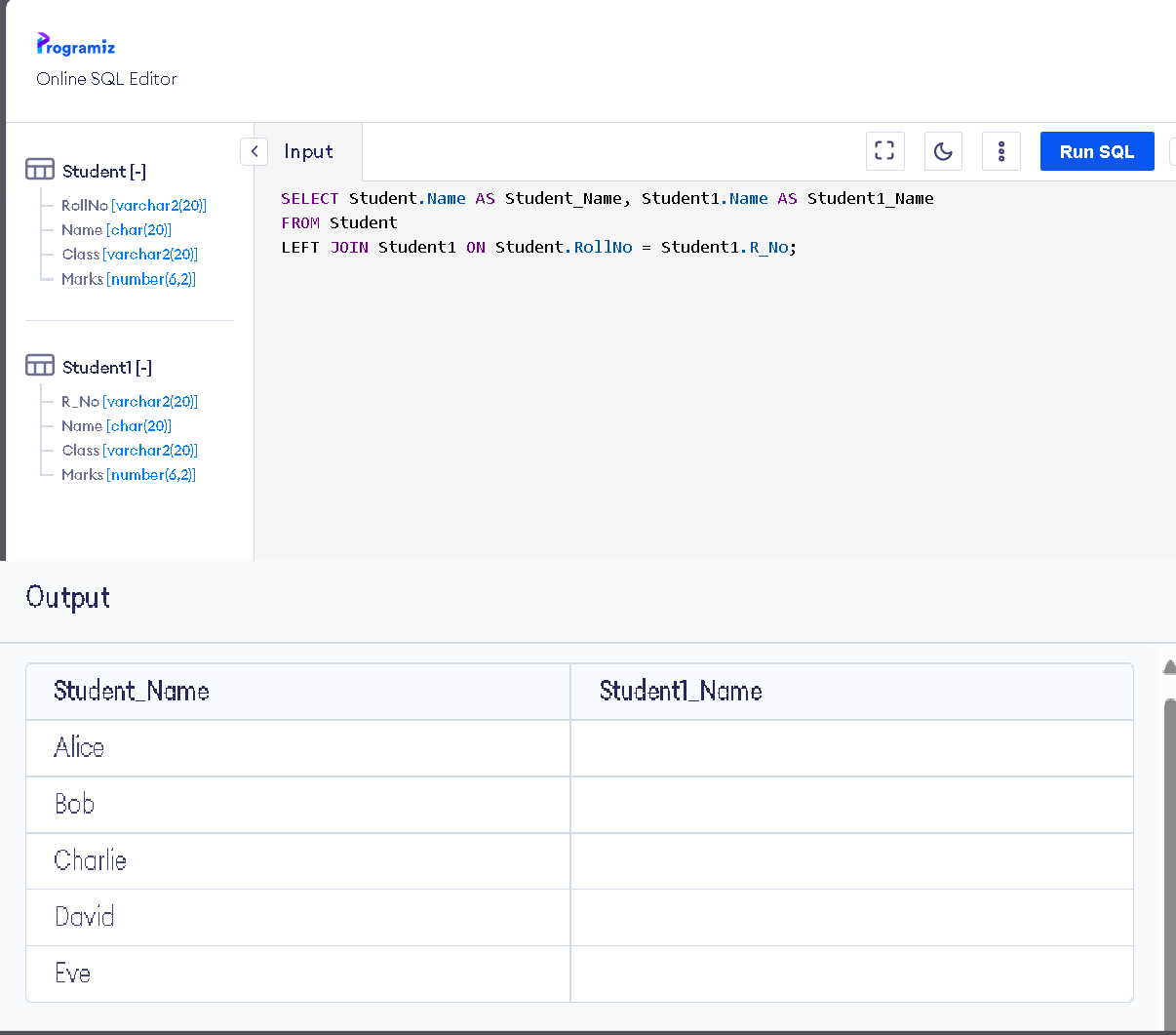
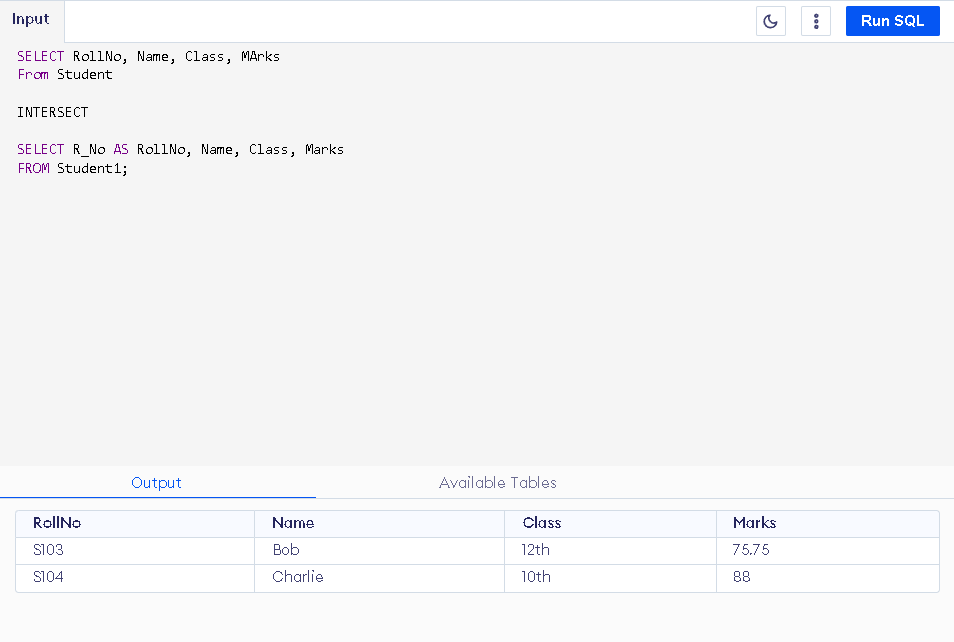


Output:



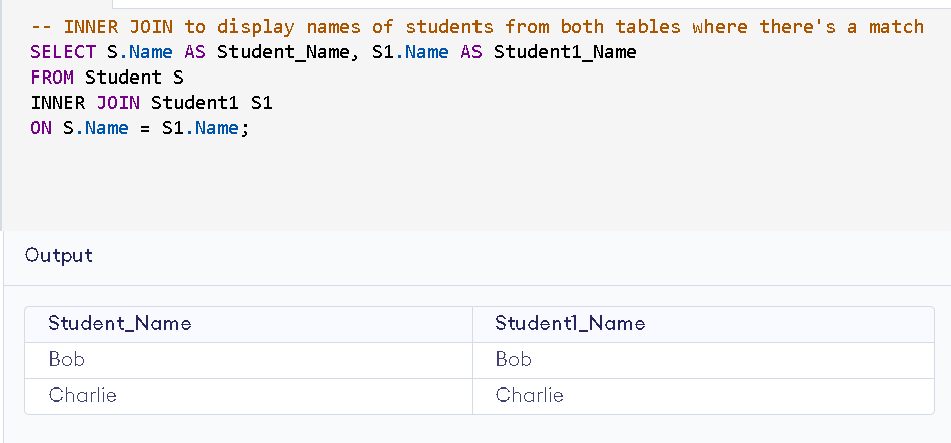
EXERCISE 13

AIM: Find out the intersection of student and student1 tables.

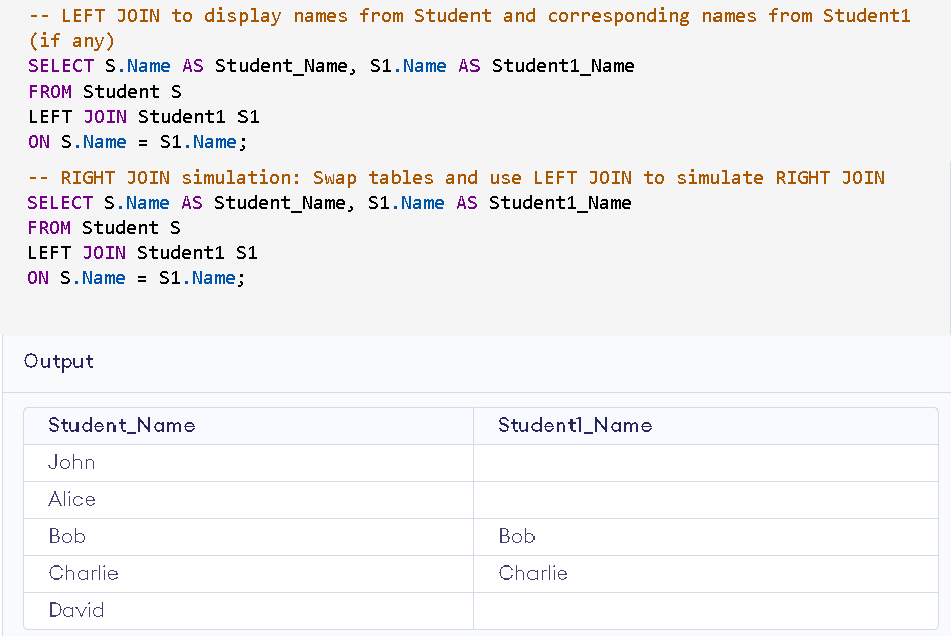


EXERCISE 14

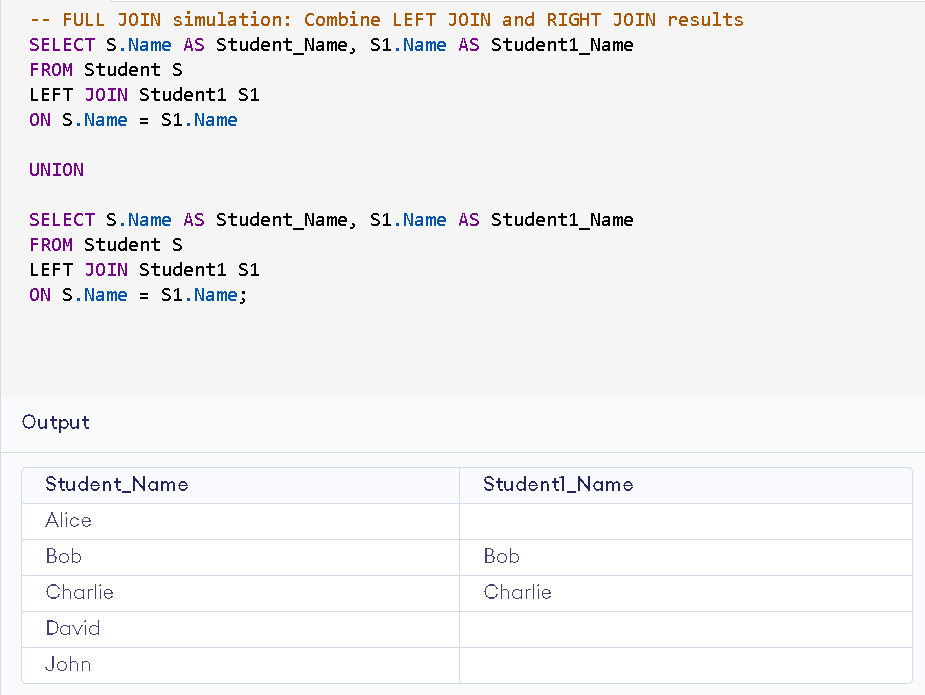
AIM: Display the names of student and student1 tables using left, right, inner and full join. INNER JOIN



LEFT JOIN AND RIGHT JOIN

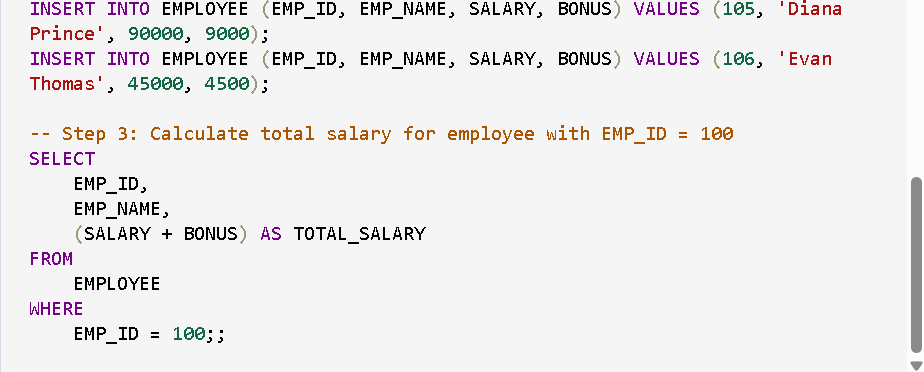
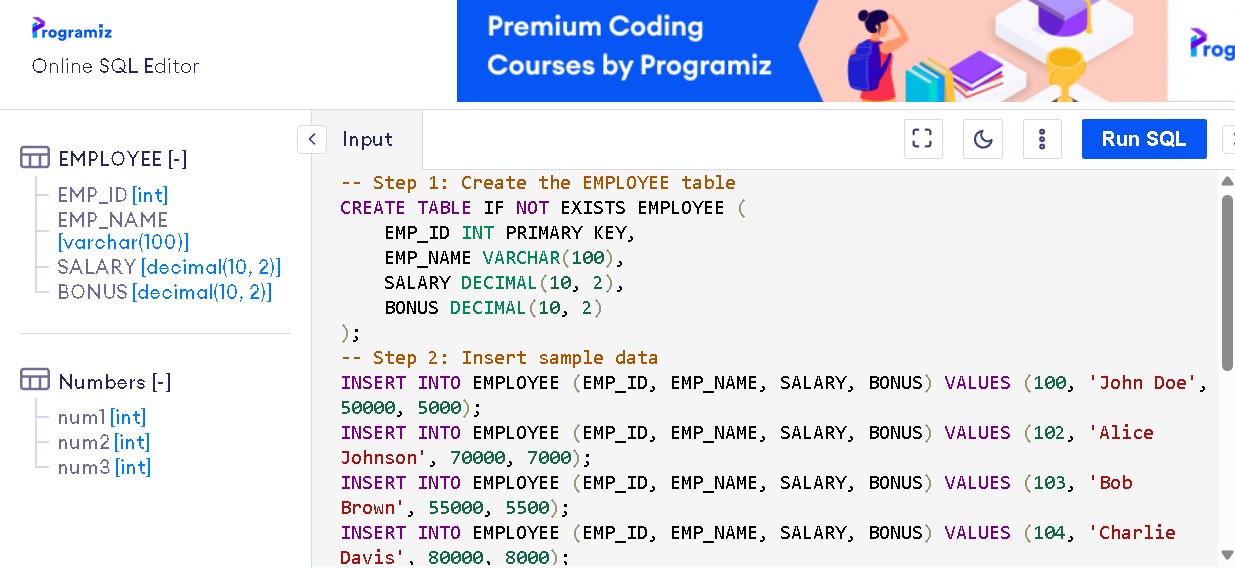


FULL JOIN

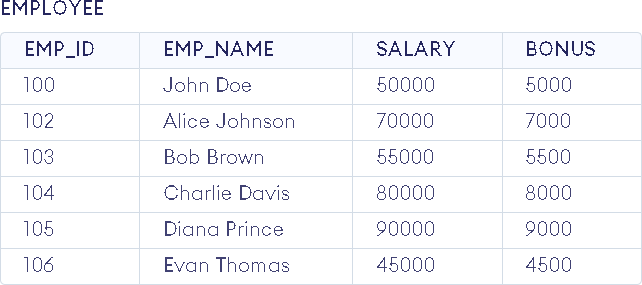


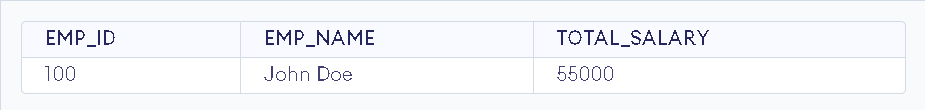
Exercise 15

AIM: To Write a PL/SQL block to calculate total salary of employee having employee number 100.



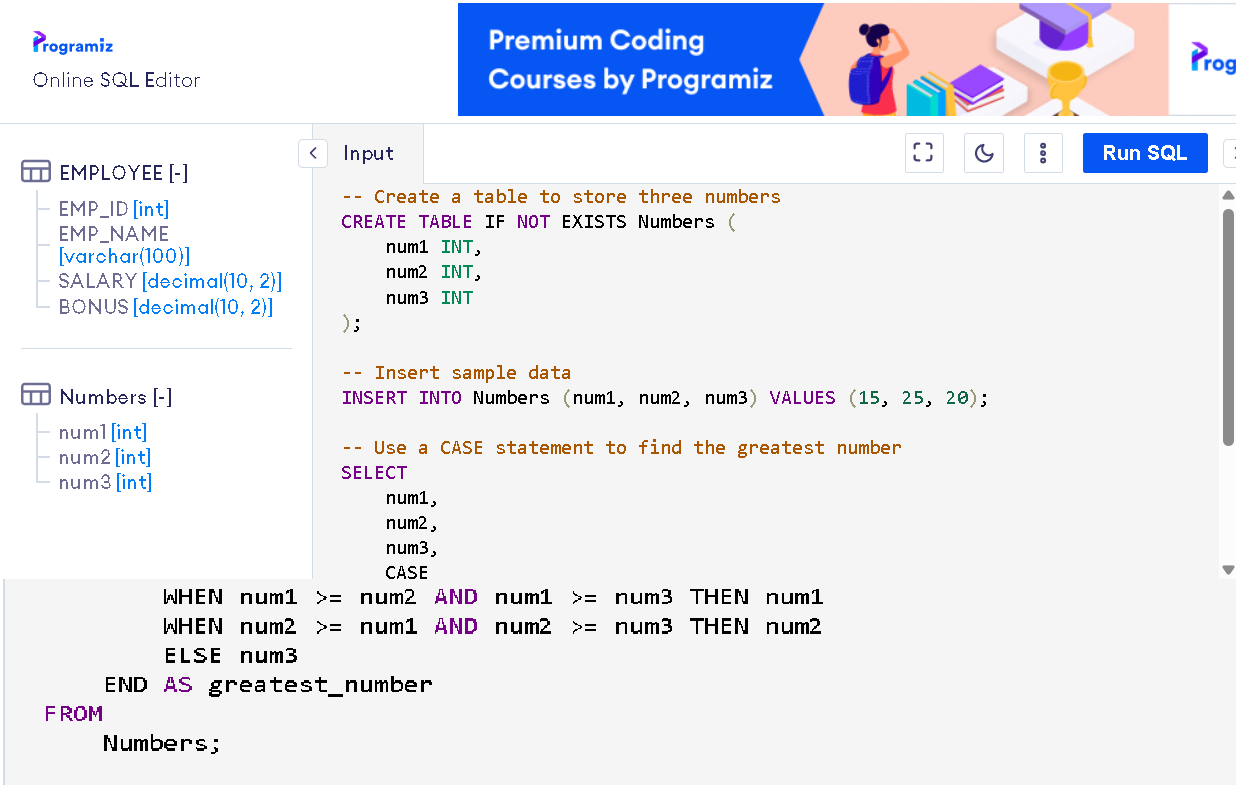
OUTPUT:



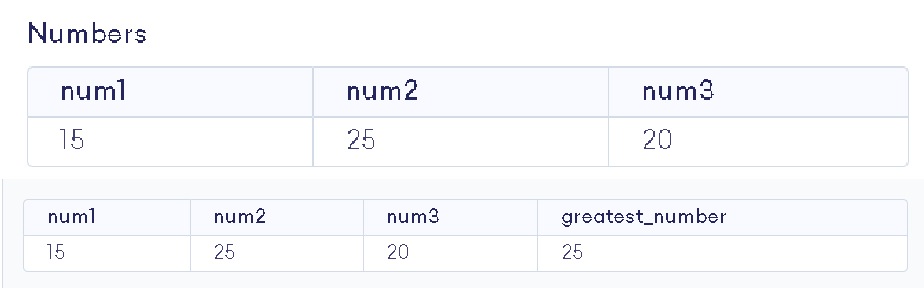


EXERCISE 16

AIM: To Write a PL/SQL code to find the greatest of three numbers.

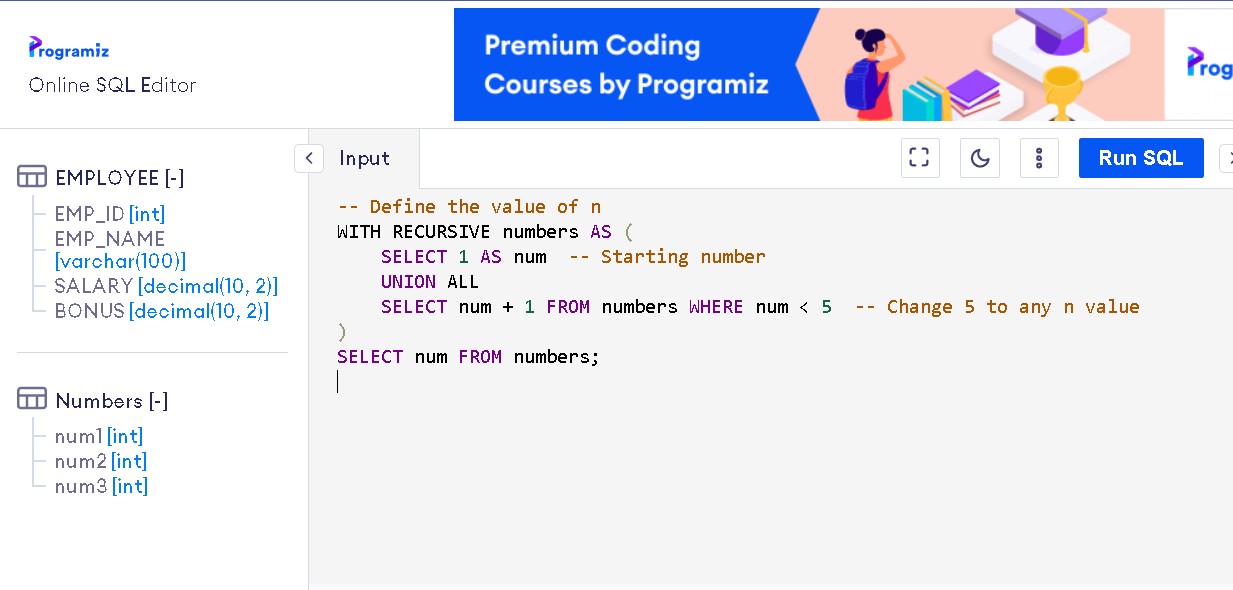


OUTPUT:

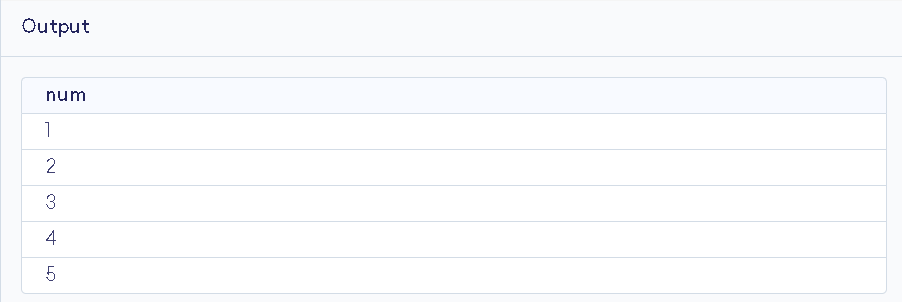


EXERCISE 17

AIM: To Write a PL/SQL code to print the numbers from 1 to n.

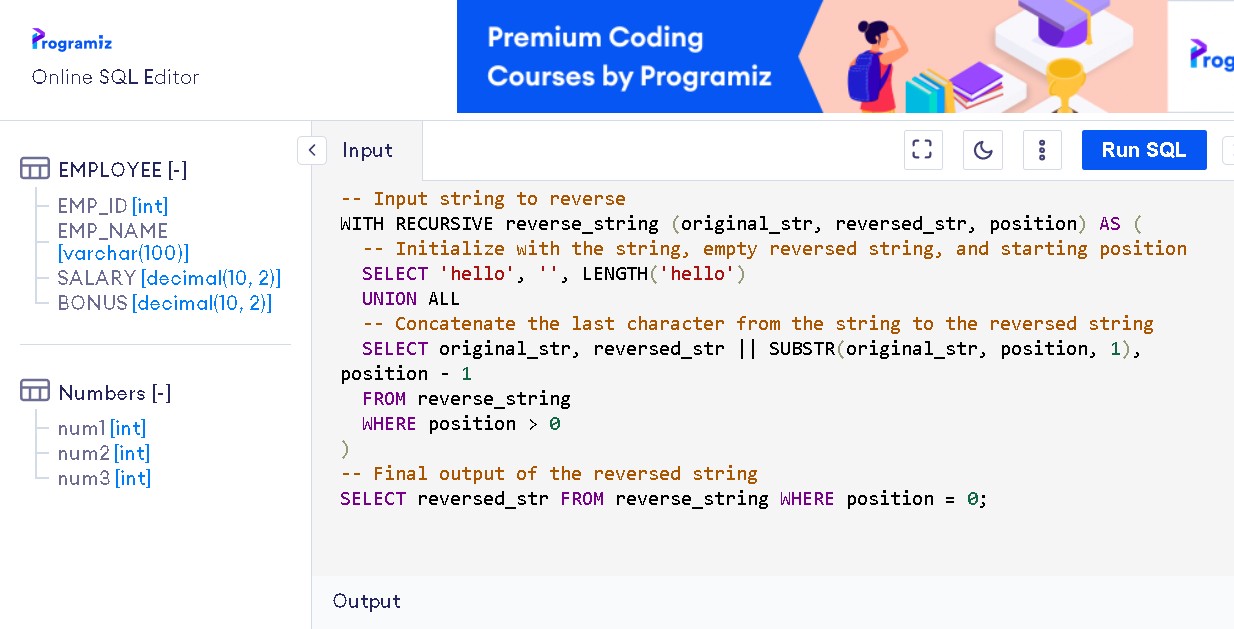


OUTPUT:

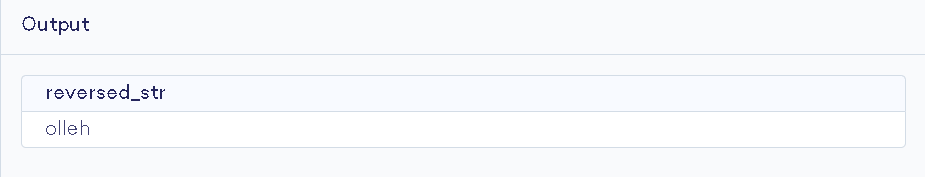


EXERCISE 18

AIM: To Write a PL/SQL code to reverse a string using for loop.

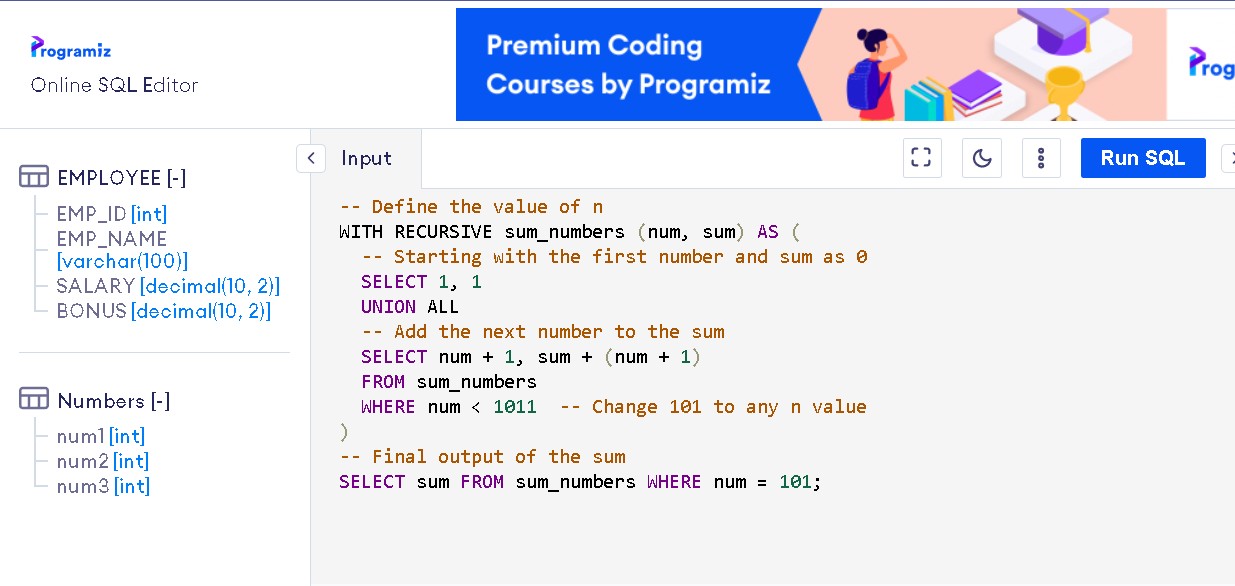


OUTPUT:

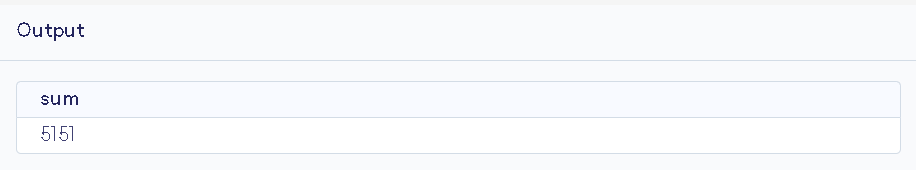


EXERCISE 19

AIM: To Write a PL/SQL code to find the sum of n numbers.

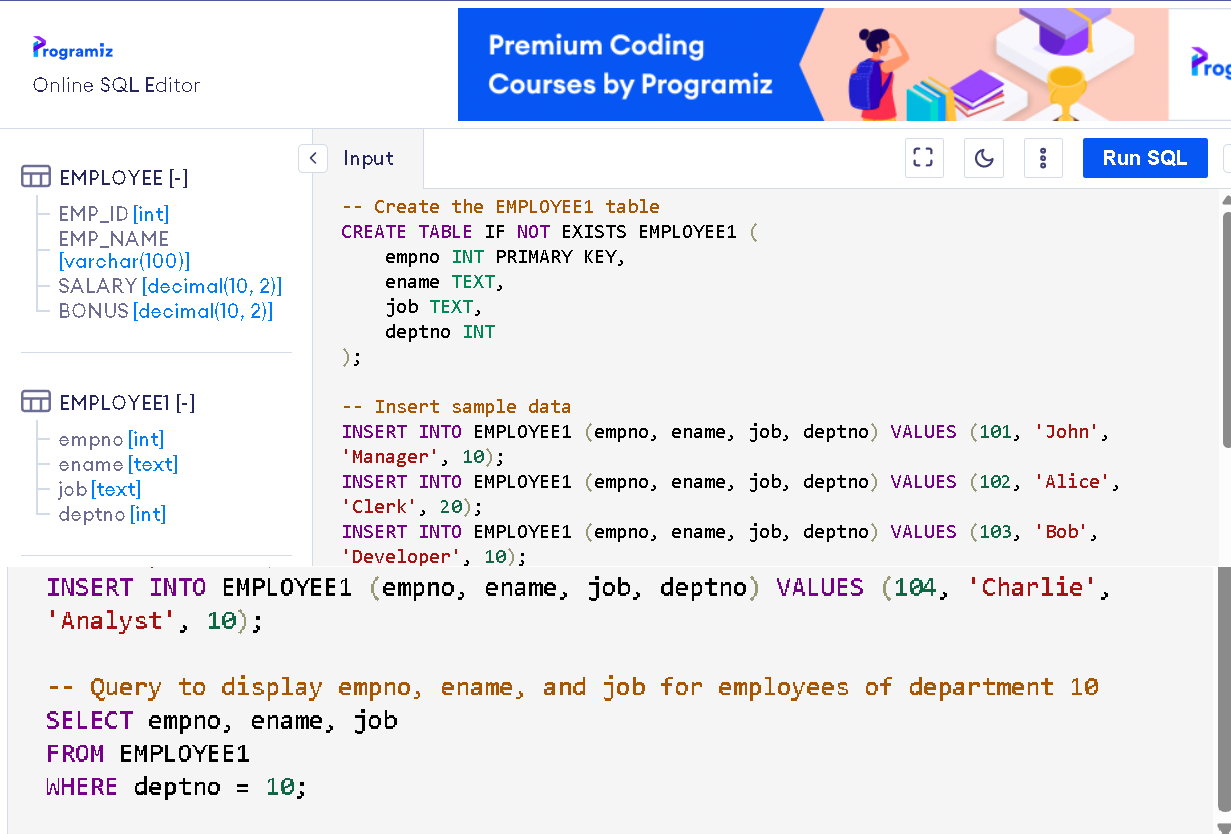


OUTPUT:

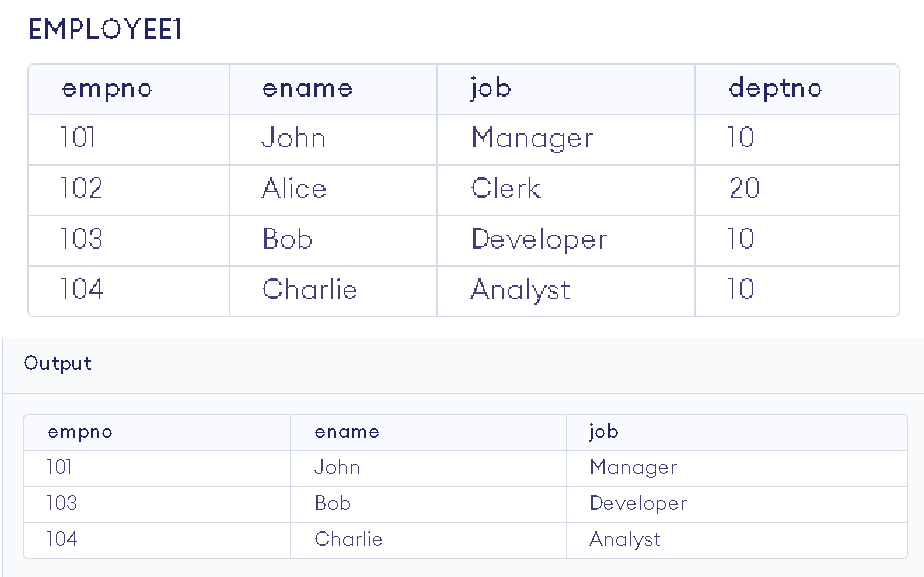


EXERCISE 20

AIM: To Consider a PL/SQL code to display the empno, ename, job of employees of department number 10.

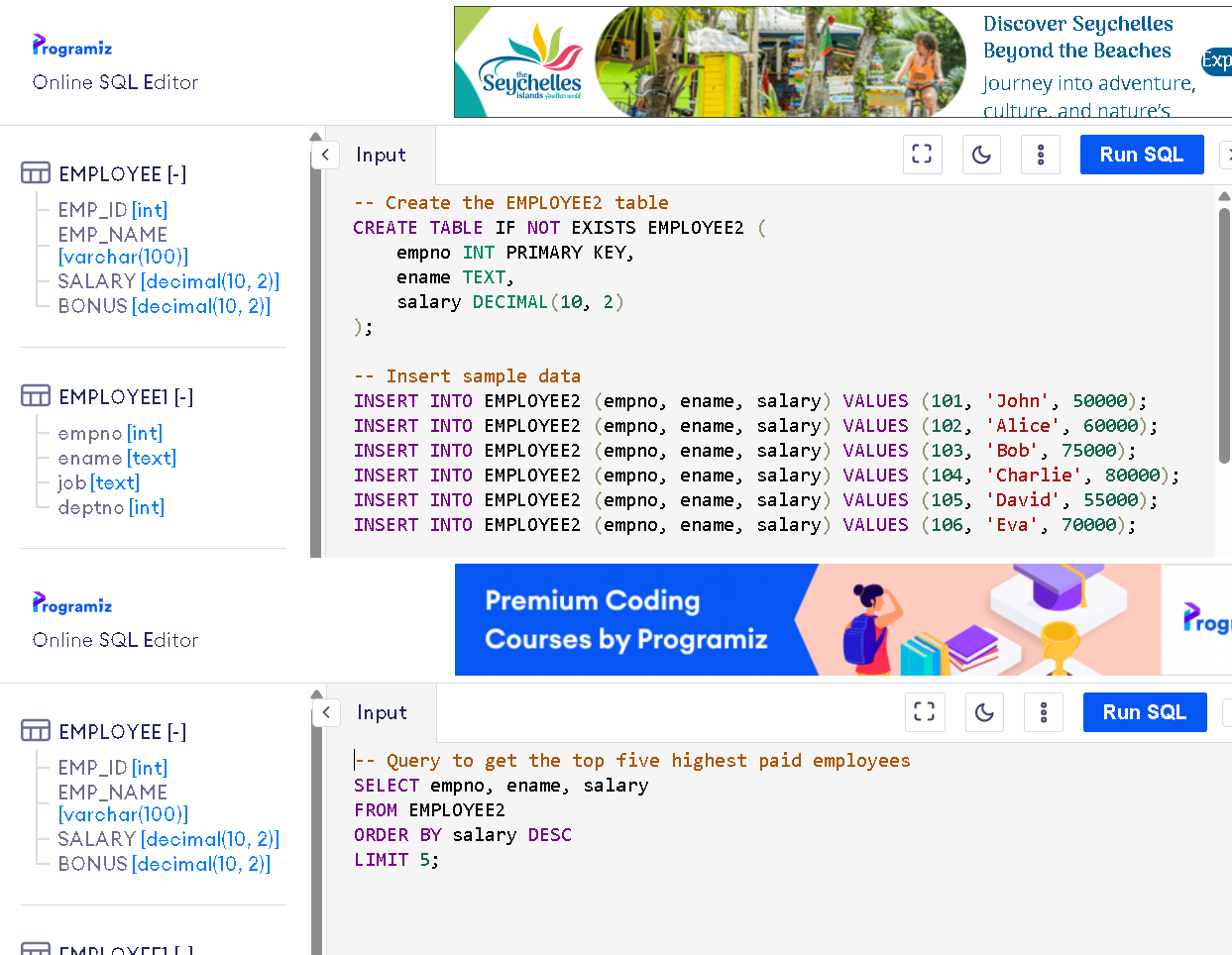


OUTPUT:

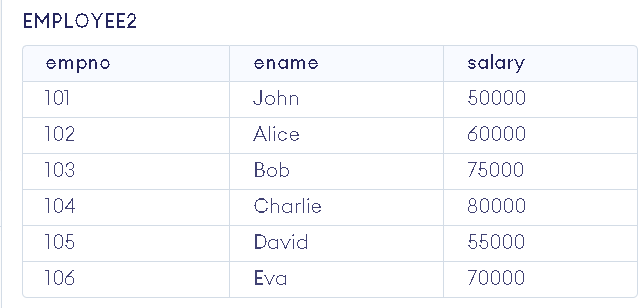


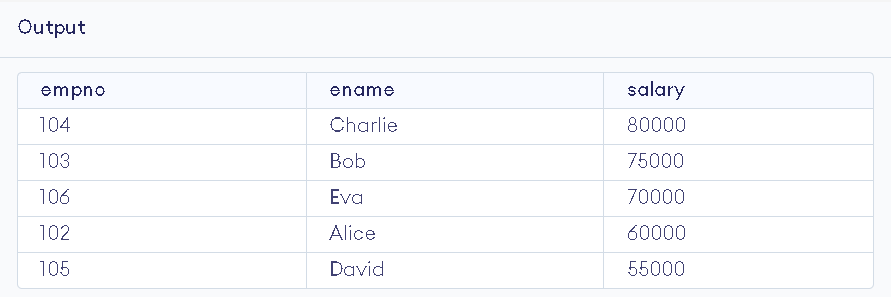
EXERCISE 21

AIM: To Consider a PL/SQL code to display the employee number & name of top five highest paid employees.



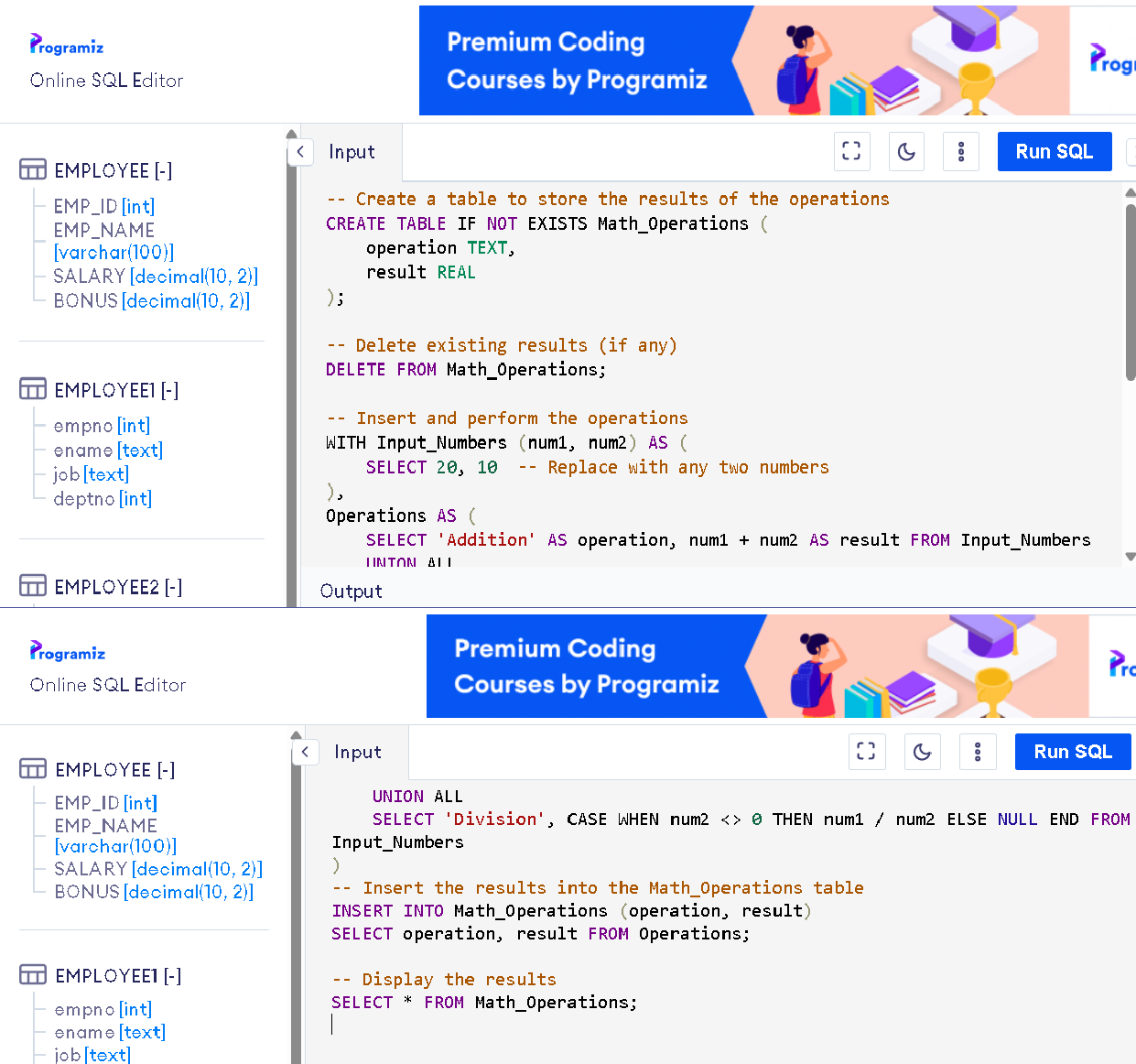
OUTPUT:



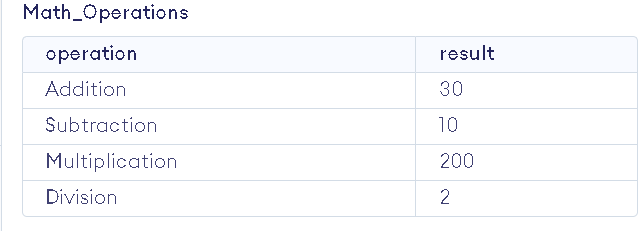


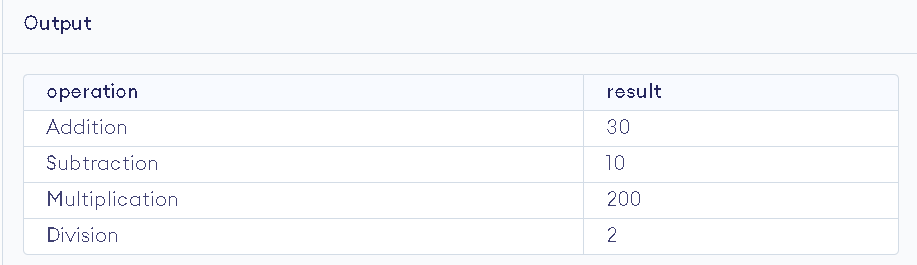
EXERCISE 22

AIM: To Consider a PL/SQL procedure that accepts 2 numbers & return addition, subtraction, multiplication & division of two numbers using stored procedure AND local procedure.



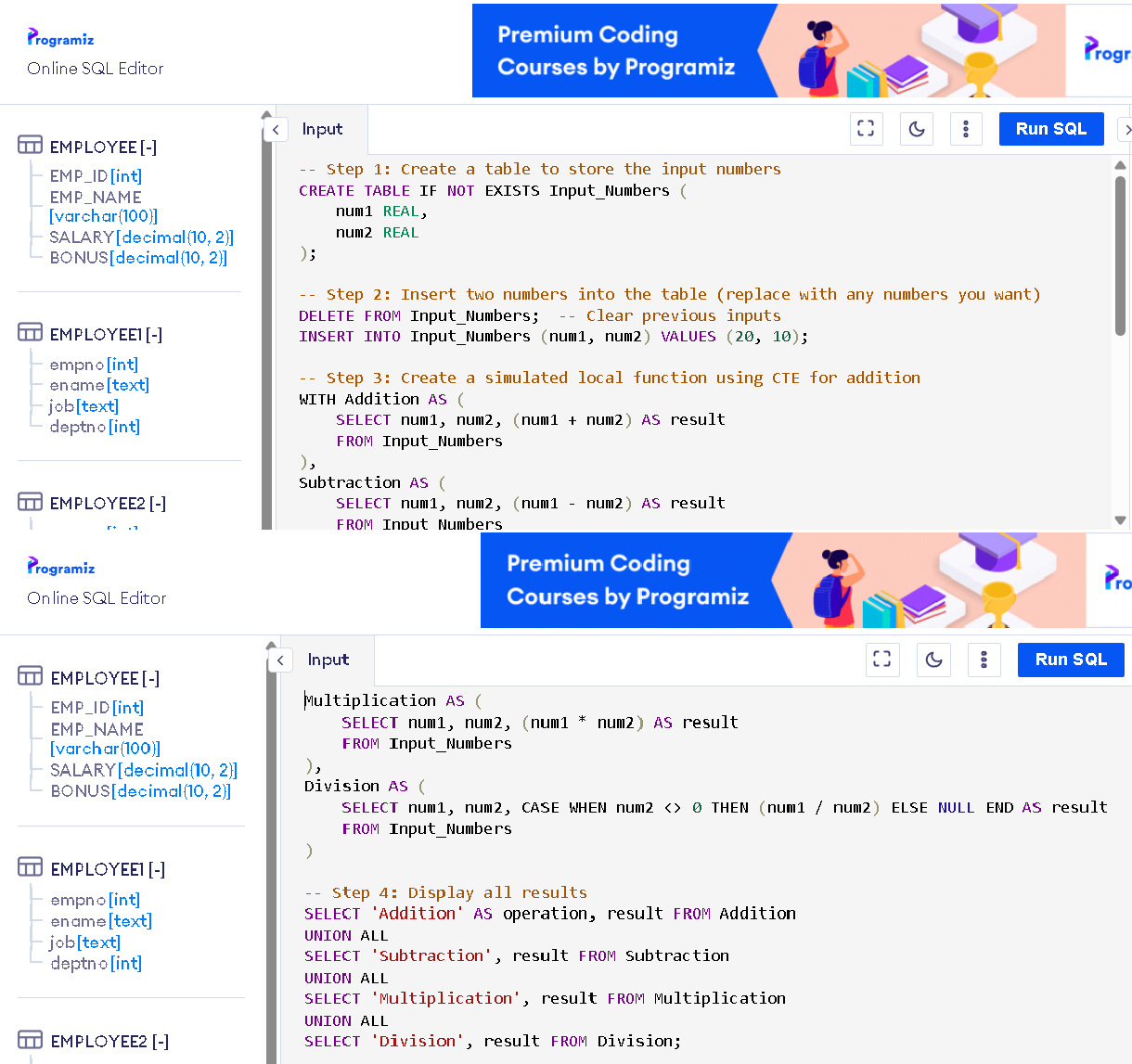
OUTPUT:



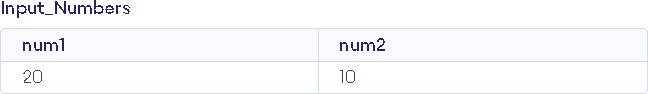


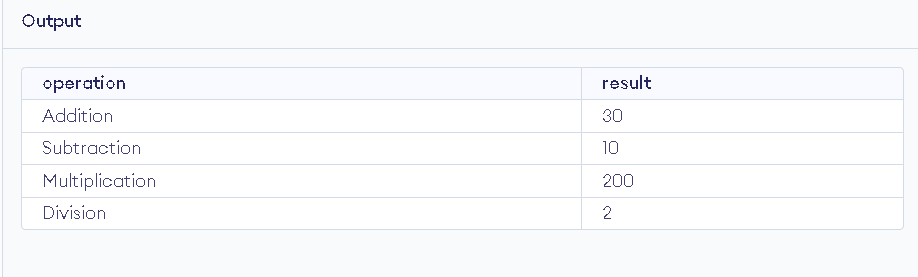
EXERCISE 23

AIM: To Consider a PL/SQL code that accepts 2 numbers & return addition, subtraction, multiplication & division of two numbers using stored functions and local function.



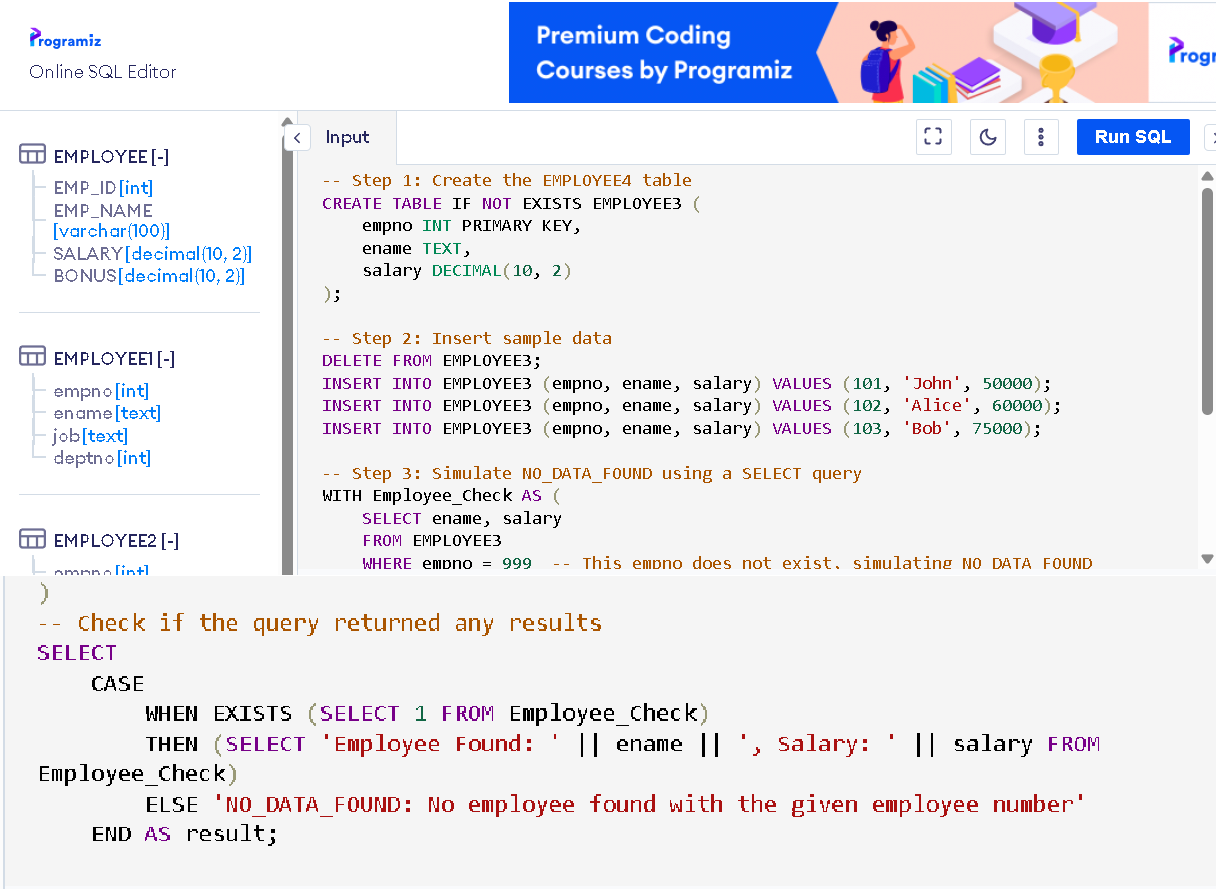
OUTPUT:



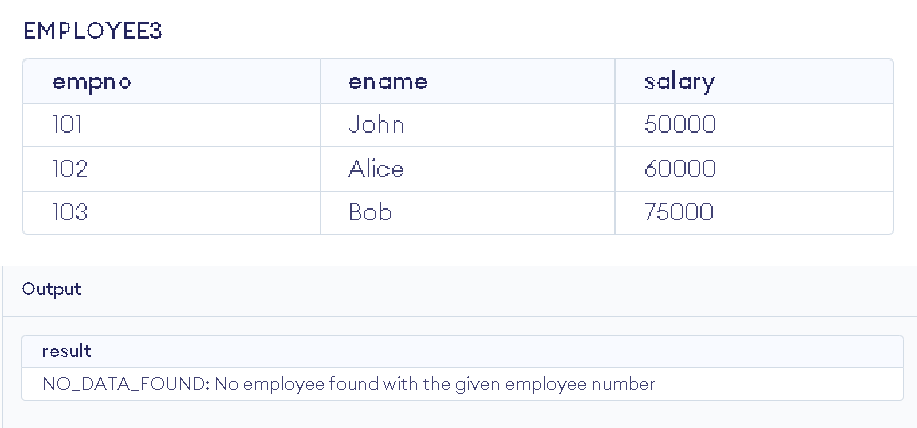


EXERCISE 24

AIM: To Write a PL/SQL block to show the use of NO\_DATA FOUND exception.

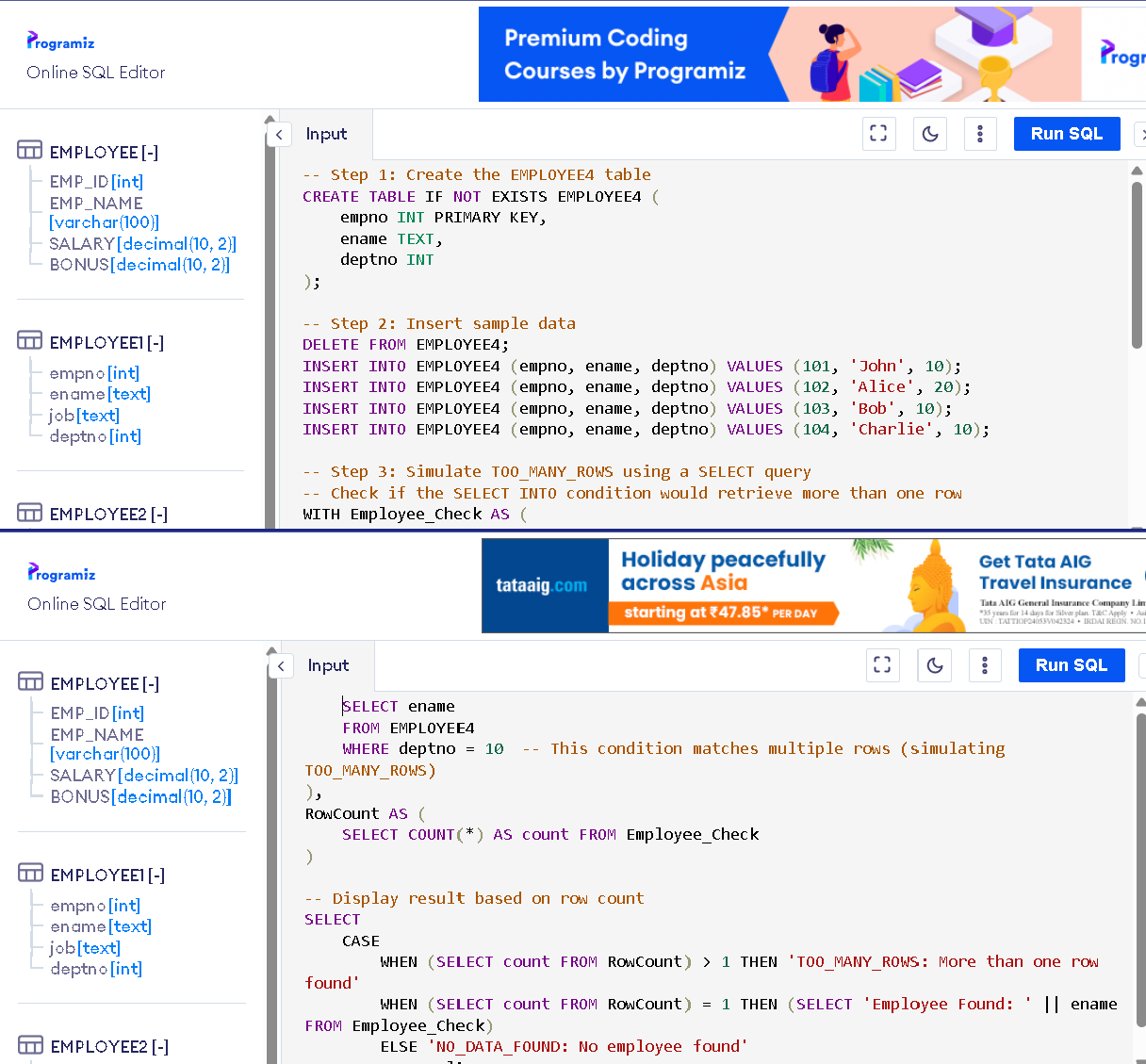


OUTPUT:

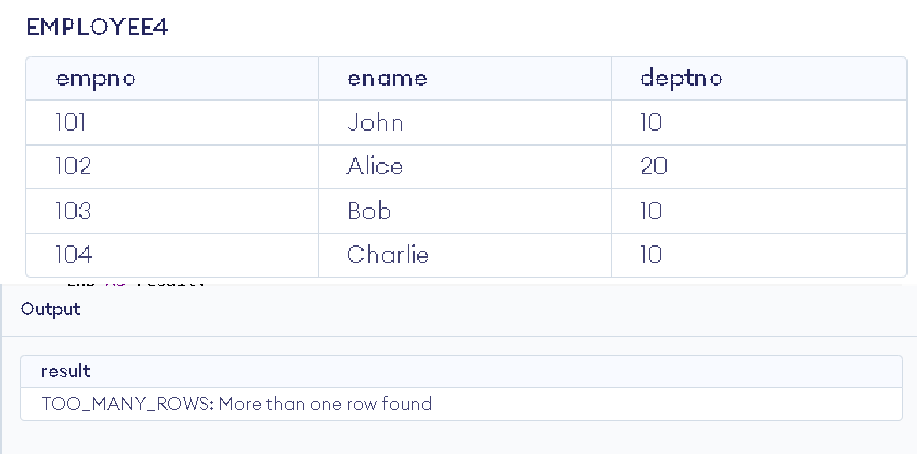


EXERCISE 25

AIM: To Write a PL/SQL block to show the use of TOO\_MANY ROWS exception.

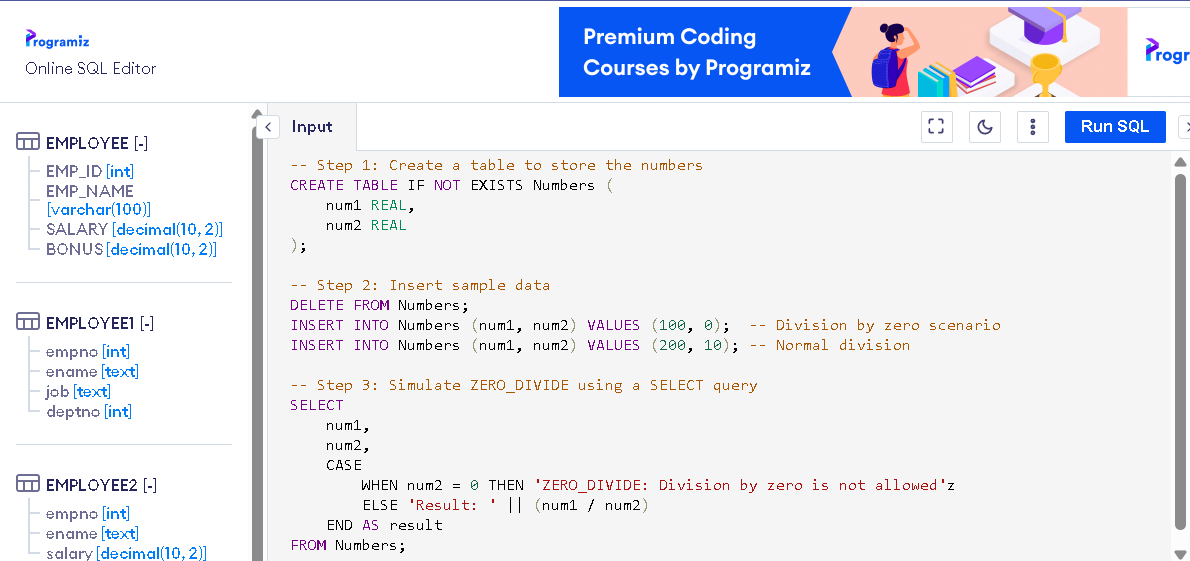


OUTPUT:

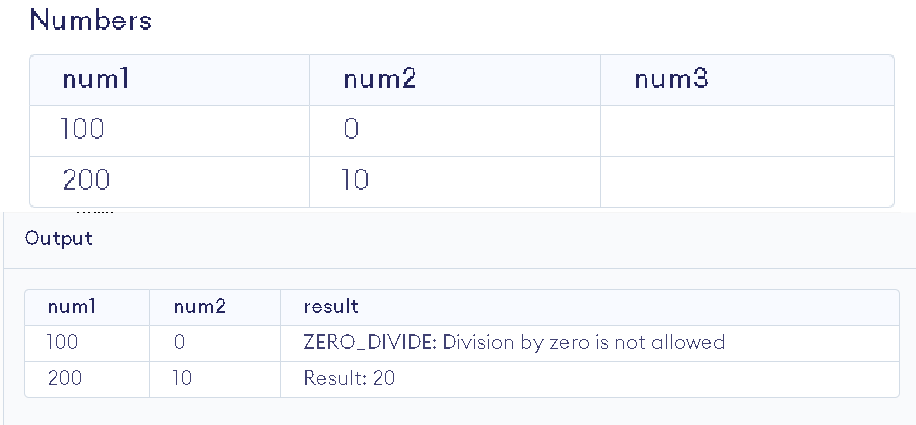


EXERCISE 26

AIM: To Write a PL/SQL block to show the use of ZERO\_DIVIDE exception.

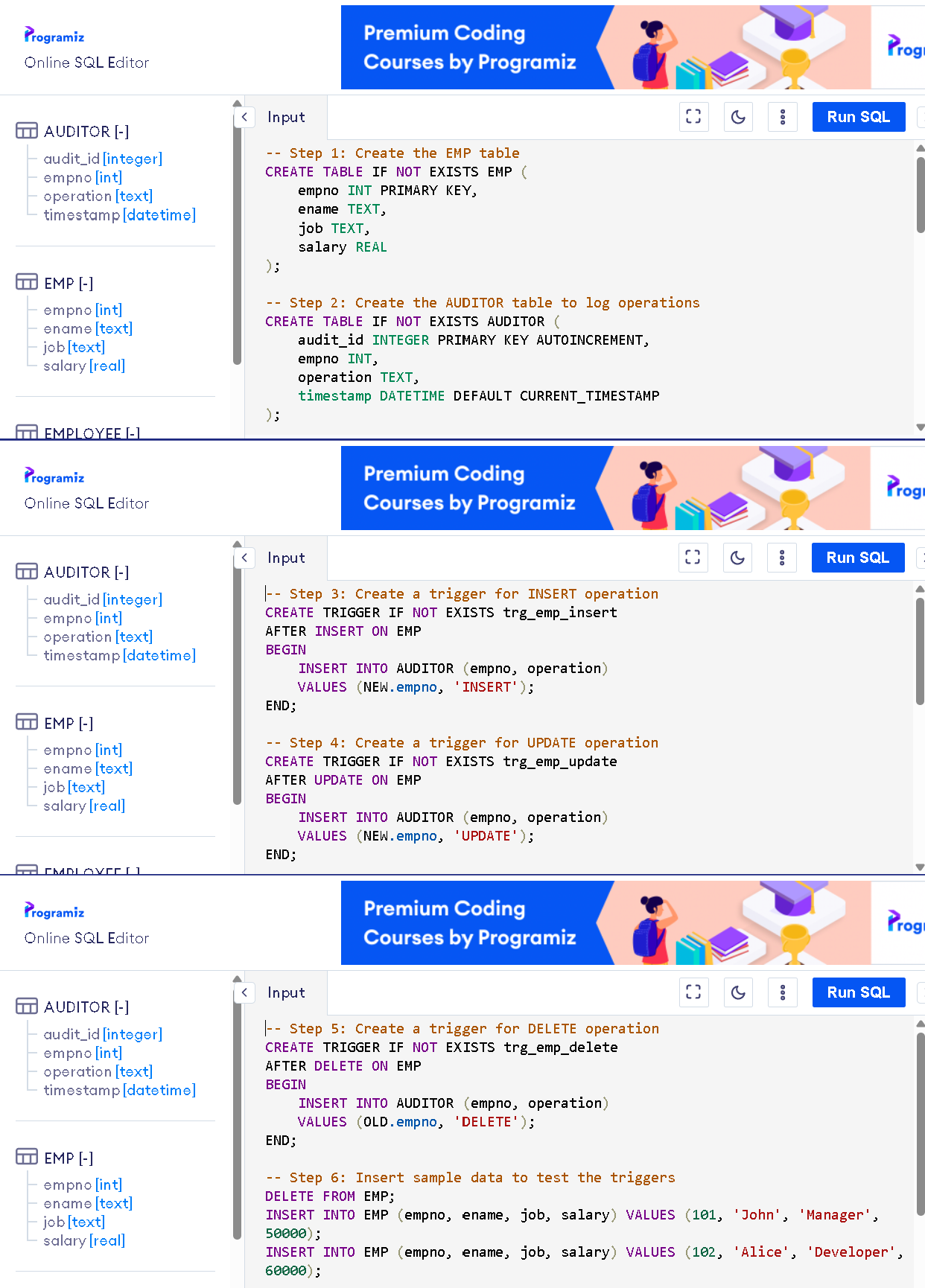


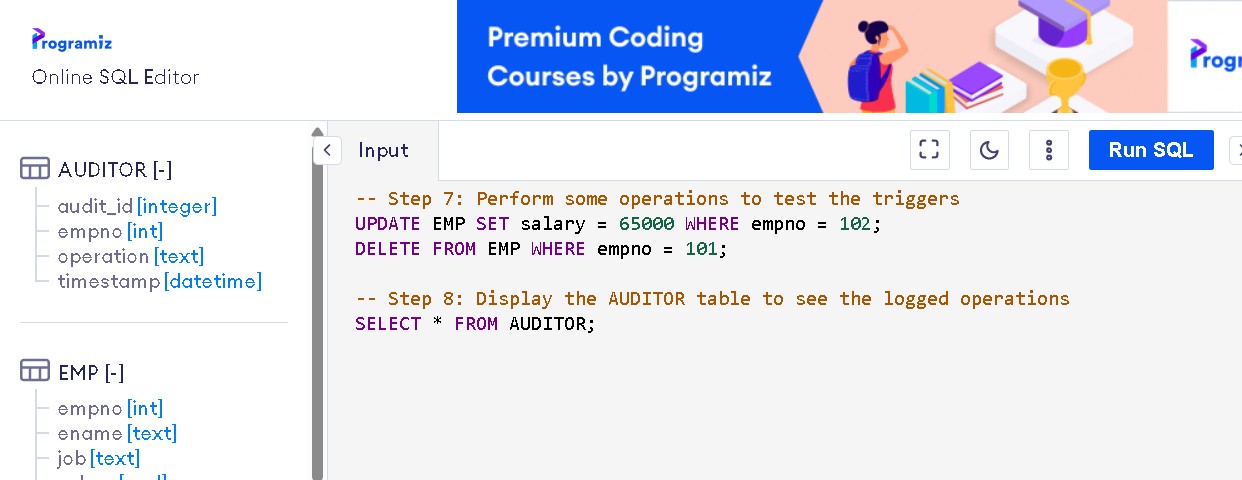
OUTPUT:



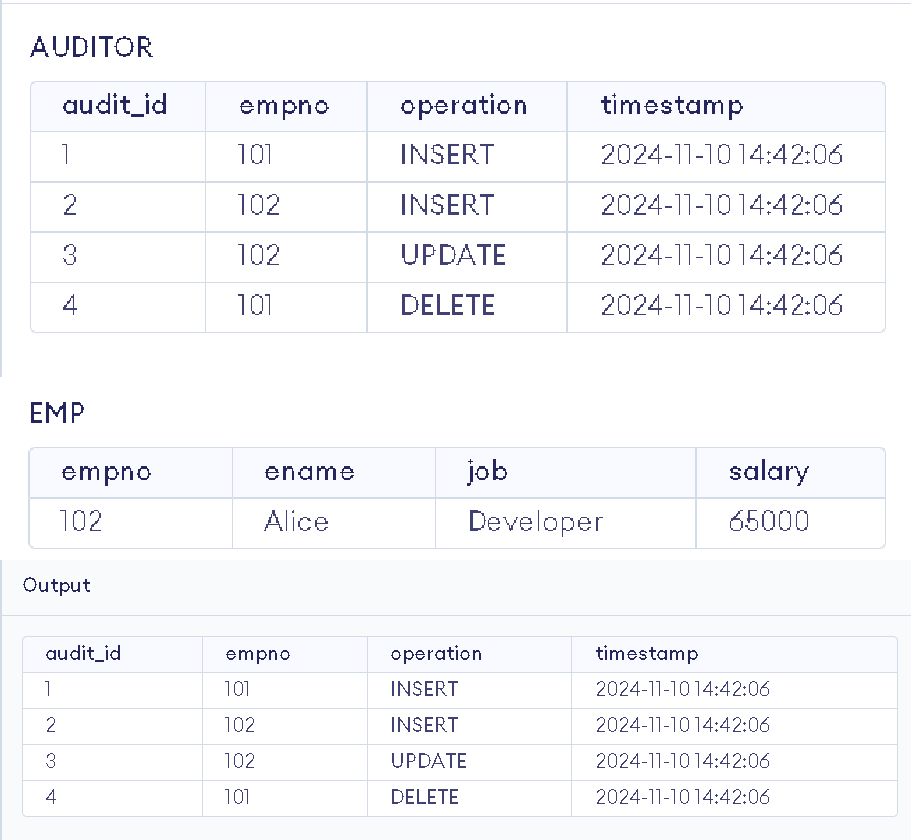
EXERCISE 27

AIM: To create a trigger on the emp table, which store the empno& operation in the table auditor for each operation i.e. Insert, Update & Delete.



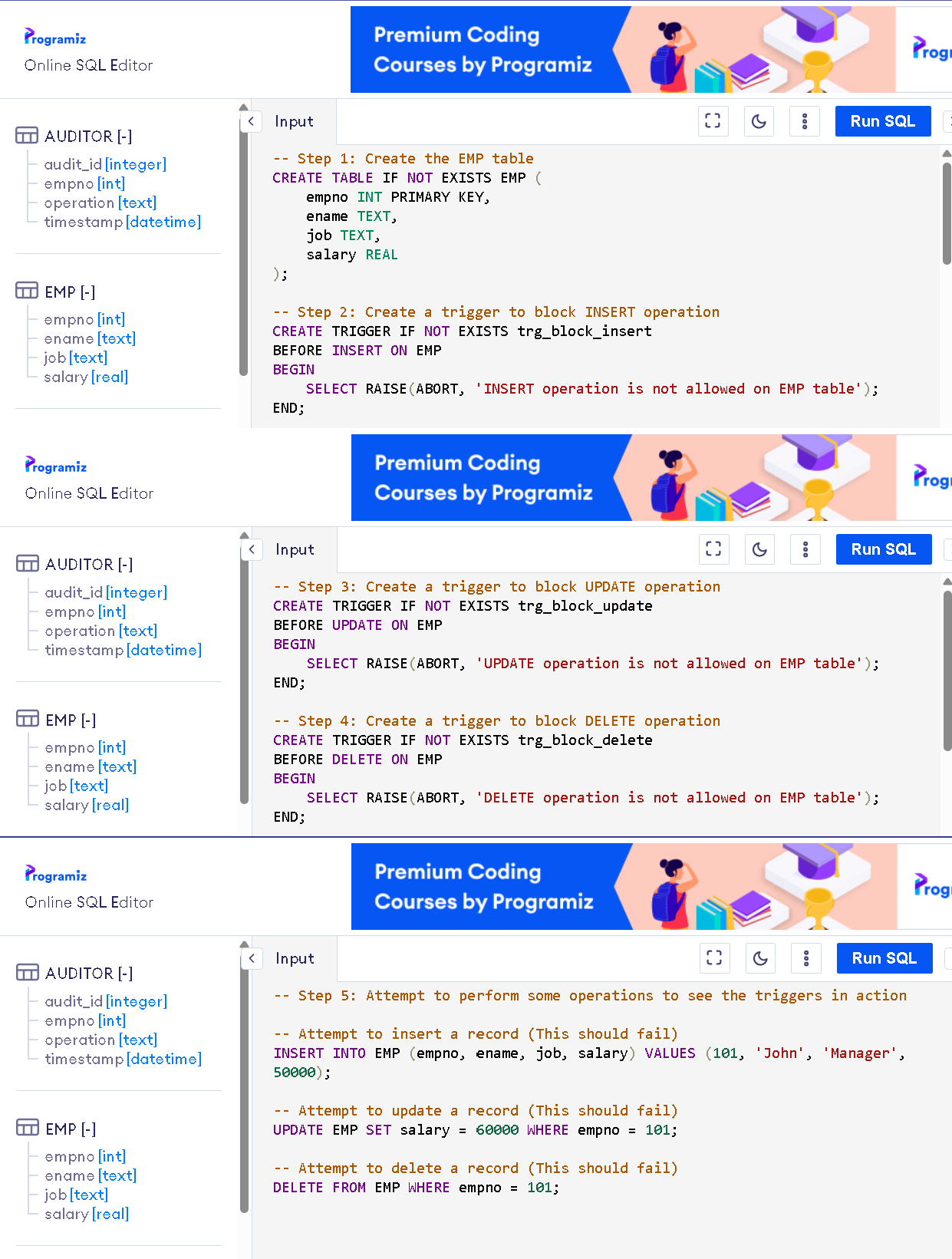


OUTPUT:



EXERCISE 28

AIM: To create a trigger so that no operation can be performed on emp table.



OUTPUT:

