Scenario 2 : The bank wants to implement a bonus scheme for employees based on theor performance.

Question : Write a stored procedure UpdateEmployeeBonus that updates the salary of employees in a given department by adding a bonus percentage passed as a parameter.

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CREATE OR REPLACE PROCEDURE UpdateEmployeeBonus (

p\_department IN VARCHAR2,

p\_bonus\_percent IN NUMBER

) AS

BEGIN

UPDATE Employees

SET Salary = Salary + (Salary \* p\_bonus\_percent / 100)

WHERE Department = p\_department;

COMMIT;

END;

/

ACCEPT Department\_Name CHAR PROMPT 'Enter Department Name: '

ACCEPT Bonus\_Percentage NUMBER PROMPT 'Enter Bonus Percentage: '

BEGIN

UpdateEmployeeBonus('&Department\_Name', &Bonus\_Percentage);

END;

/

Before executing the procedure

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

SELECT \* FROM Employees;

EMPLOYEEID NAME

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POSITION SALARY DEPARTMENT HIREDATE

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1 Alice Johnson

Manager 70000 HR

15-JUN-15

2 Bob Brown

Developer 60000 IT

20-MAR-17

3 Nina Sayers

Consultant 50000 Security 14-MAY-16

After executing the procedure

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

SQL> ACCEPT Department\_Name CHAR PROMPT 'Enter Department Name: '

Enter Department Name: Security

SQL> ACCEPT Bonus\_Percentage NUMBER PROMPT 'Enter Bonus Percentage: '

Enter Bonus Percentage: 5

SQL> BEGIN

2 UpdateEmployeeBonus('&Department\_Name', &Bonus\_Percentage);

3 END;

4 /

old 2: UpdateEmployeeBonus('&Department\_Name', &Bonus\_Percentage);

new 2: UpdateEmployeeBonus('Security', 5);

PL/SQL procedure successfully completed.

SQL> SELECT \* FROM Employees;

EMPLOYEEID NAME

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POSITION SALARY DEPARTMENT HIREDATE

-------------------------------------------------- ---------- -------------------------------------------------- ---------

1 Alice Johnson

Manager 70000 HR

15-JUN-15

2 Bob Brown

Developer 60000 IT

20-MAR-17

3 Nina Sayers

Consultant 52500 Security 14-MAY-16