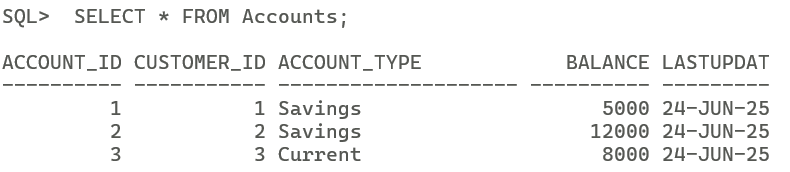
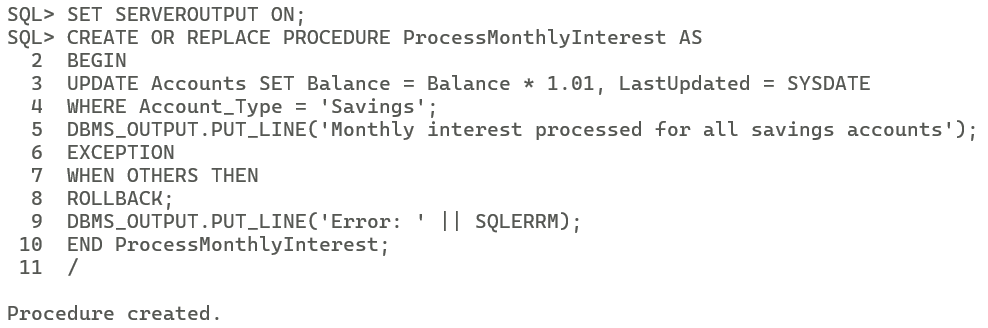
**Scenario1:**

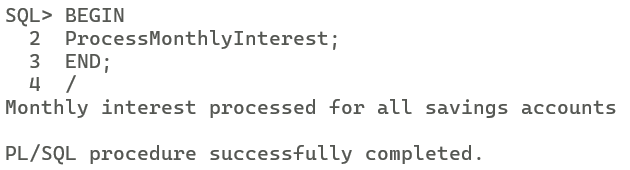
SELECT \* FROM Accounts;



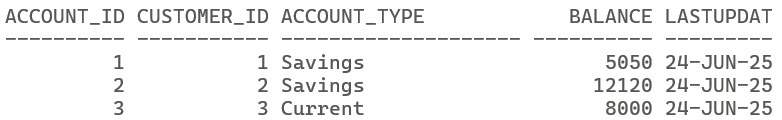
SET SERVEROUTPUT ON;  
CREATE OR REPLACE PROCEDURE ProcessMonthlyInterest AS  
BEGIN  
UPDATE Accounts SET Balance = Balance \* 1.01, LastUpdated = SYSDATE  
WHERE Account\_Type = ‘Savings’;  
DBMS\_OUTPUT.PUT\_LINE(‘Monthly interest processed for all savings accounts’);  
EXCEPTION  
WHEN OTHERS THEN   
ROLLBACK;  
DBMS\_OUTPUT.PUT\_LINE(‘Error: ‘ || SQLERRM);  
END ProcessMonthlyInterest;  
/



BEGIN  
ProcessMonthlyInterest;  
END;  
/

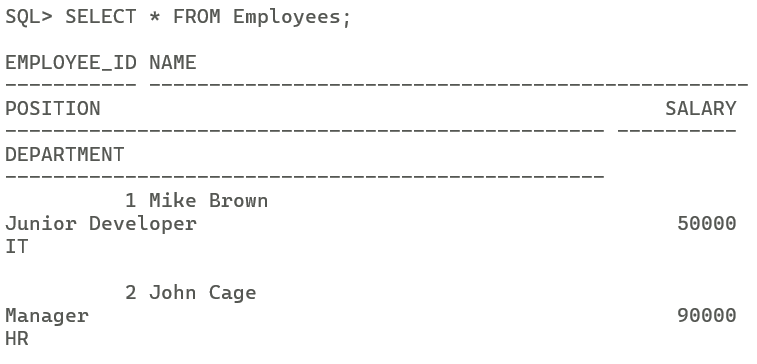


SELECT \* FROM Accounts;

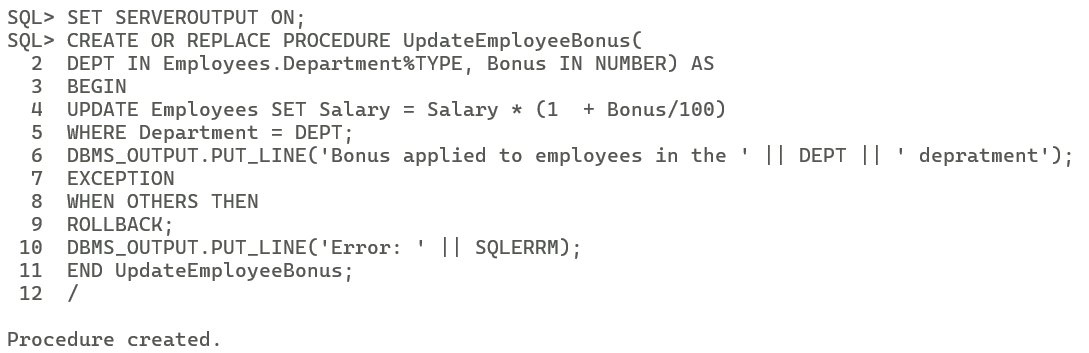


**Scenario2:**

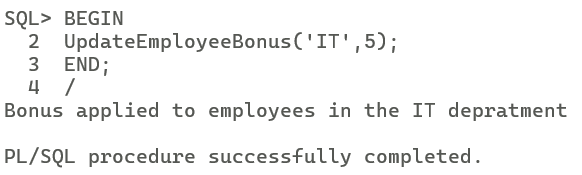
SELECT \* FROM Employees;

****

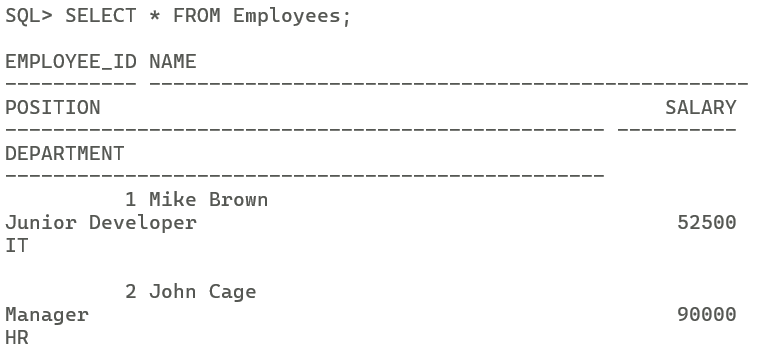
SET SERVEROUTPUT ON;  
CREATE OR REPLACE PROCEDURE UpdateEmployeeBonus(  
DEPT IN Employees.Department%TYPE, Bonus IN NUMBER) AS  
BEGIN  
UPDATE Employees SET Salary = Salary \* (1 + Bonus/100)  
WHERE Department = DEPT;  
DBMS\_OUTPUT.PUT\_LINE(‘Bonus applied to employees in the ‘ || DEPT || ‘ department’);  
EXCEPTION  
WHEN OTHERS THEN  
ROLLBACK;  
DBMS\_OUTPUT.PUT\_LINE(‘Error: ‘ || SQLERRM);  
END UpdateEmployeeBonus;  
/



BEGIN  
UpdateEmployeeBonus(‘IT’,5);  
END;  
/

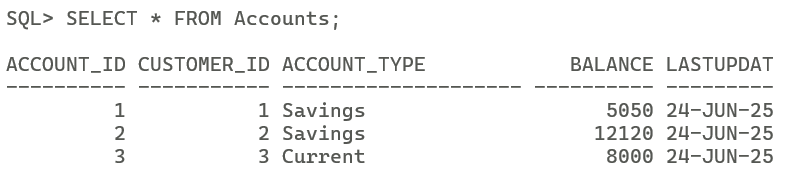


SELECT \* FROM Employees;

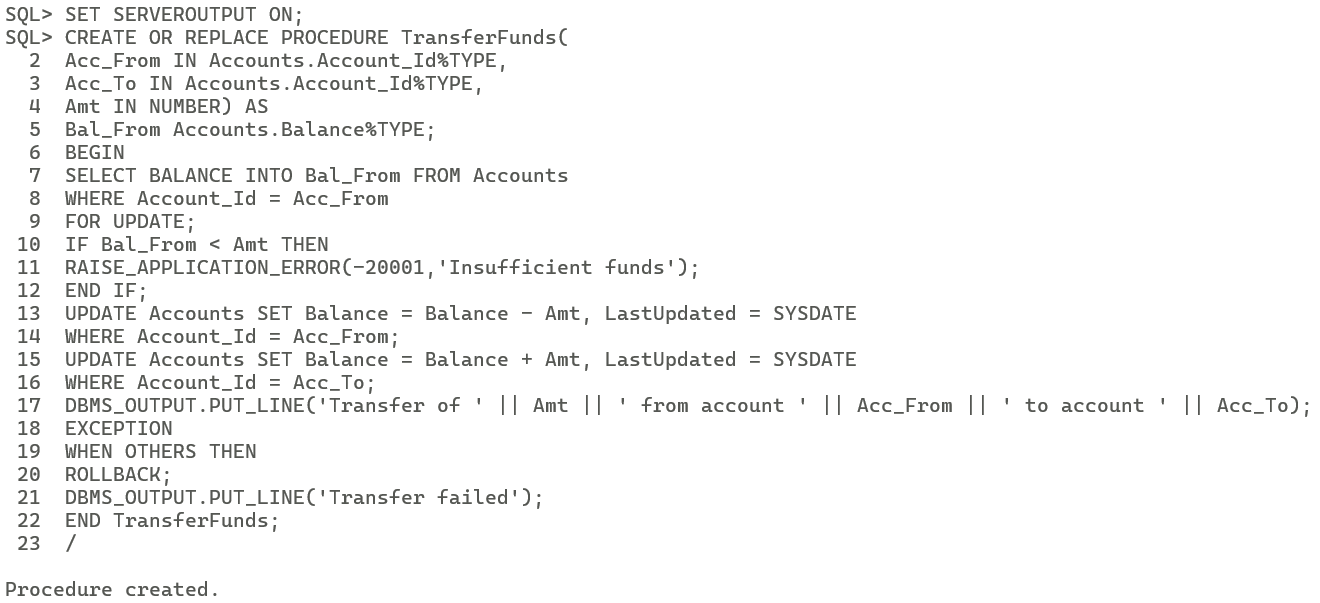


**Scenario3:**

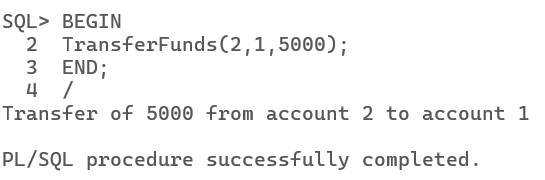
SELECT \* FROM Accounts;



SET SERVEROUTPUT ON;  
CREATE OR REPLACE PROCEDURE TransferFunds(  
Acc\_From IN Accounts.Account\_Id%TYPE,  
Acc\_To IN Accounts.Account\_Id%TYPE,  
Amt IN NUMBER) AS  
Bal\_From Accounts.Balance%TYPE;  
BEGIN  
SELECT BALANCE INTO Bal\_From FROM Accounts  
WHERE Account\_Id = Acc\_From  
FOR UPDATE;  
IF Bal\_From < Amt THEN  
RAISE\_APPLICATION\_ERROR(-20001,’Insufficient funds’);  
END IF;  
UPDATE Accounts SET Balance = Balance – Amt, LastUpdated = SYSDATE  
WHERE Account\_Id = Acc\_From;  
UPDATE Accounts SET Balance = Balance + Amt, LastUpdated = SYSDATE  
WHERE Account\_Id = Acc\_To;  
DBMS\_OUTPUT.PUT\_LINE(‘Transfer of ‘ || Amt || ‘ from account ‘ || Acc\_From || ‘ to account ‘ || Acc\_To);  
EXCEPTION  
WHEN OTHERS THEN  
ROLLBACK;  
DBMS\_OUTPUT.PUT\_LINE(‘Transfer failed’);  
END TransferFunds;  
/



BEGIN  
TransferFunds(2,1,5000);  
END;  
/



SELECT \* FROM Accounts;

