Exercise 3: Stored Procedures

**Scenario 1: Process Monthly Interest (1%) for Savings Accounts**

CREATE OR REPLACE PROCEDURE ProcessMonthlyInterest IS

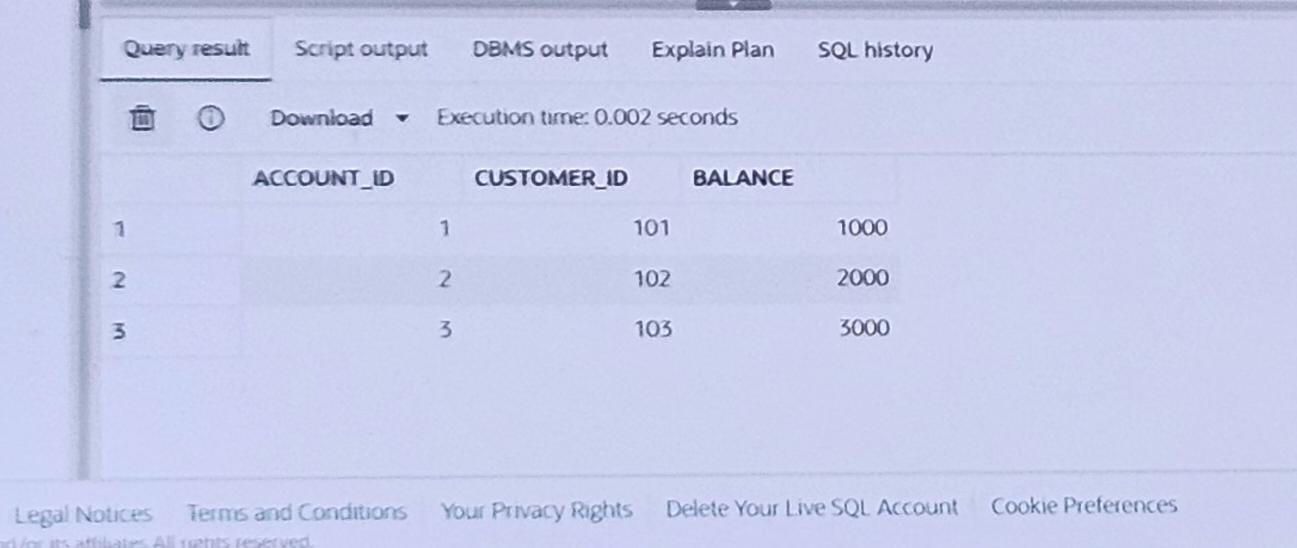
BEGIN

UPDATE savings\_accounts

SET balance = balance + (balance \* 0.01);

COMMIT;

END;



**Scenario 2: Update Bonus for Employees in a Department**

CREATE OR REPLACE PROCEDURE UpdateEmployeeBonus (

dept\_id IN NUMBER,

bonus\_percent IN NUMBER

) IS

BEGIN

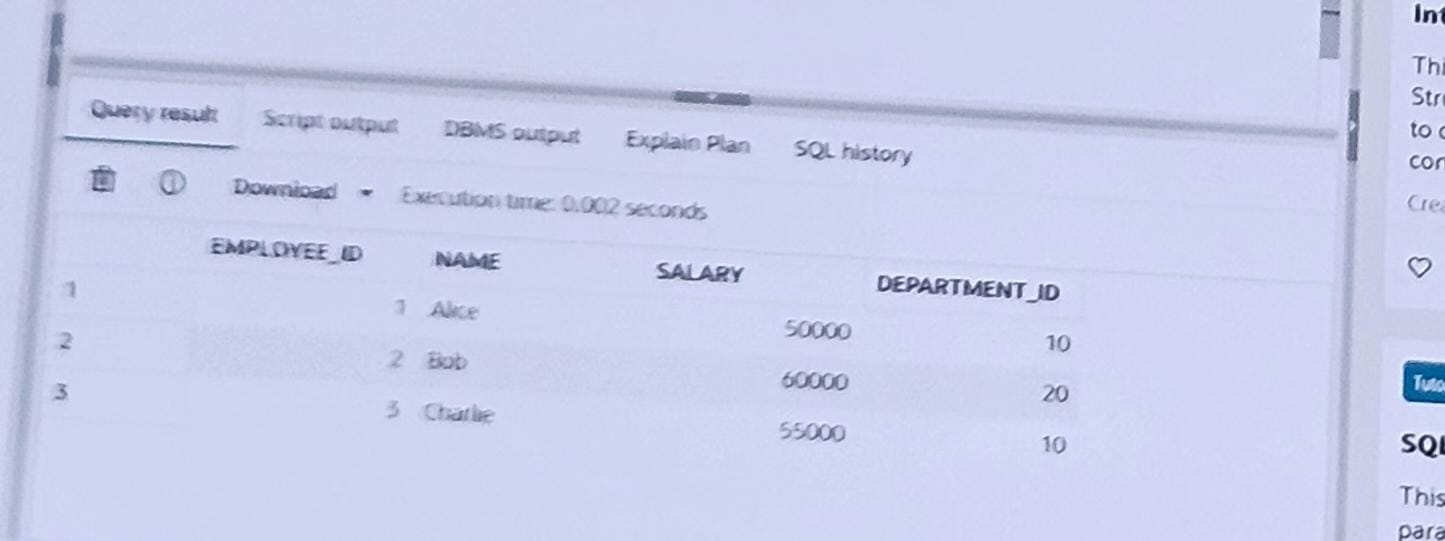
UPDATE employees

SET salary = salary + (salary \* bonus\_percent / 100)

WHERE department\_id = dept\_id;

COMMIT;

END;



**Scenario 3: Transfer Funds Between Accounts**

CREATE OR REPLACE PROCEDURE TransferFunds (

from\_account IN NUMBER,

to\_account IN NUMBER,

amount IN NUMBER

) IS

from\_balance NUMBER;

BEGIN

SELECT balance INTO from\_balance

FROM accounts

WHERE account\_id = from\_account

FOR UPDATE;

IF from\_balance < amount THEN

RAISE\_APPLICATION\_ERROR(-20001, 'Insufficient balance.');

END IF;

-- Deduct from source

UPDATE accounts

SET balance = balance - amount

WHERE account\_id = from\_account;

UPDATE accounts

SET balance = balance + amount

WHERE account\_id = to\_account;

COMMIT;

END;

