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-- Daniel Ayoub
-- Advanced DB Techniques, SEC 5
-- Assn. 2

-- 4-8: Processing and Updating a Group of Rows
BEGIN
  UPDATE employee
    SET sal = sal * 1.09
    WHERE JOB <> 'PRESIDENT' AND sal < 2000;
    DBMS_OUTPUT.PUT_LINE('salary is increased');
  IF SQL%NOTFOUND THEN
    DBMS_OUTPUT.PUT_LINE('salary is the same');
  END IF;
END;

--4-9: Using an Explicit Cursor
DECLARE
  ppid dd_payment.idpledge%TYPE;
  pl_amt dd_pledge.pledgeamt%TYPE;
  paymonths dd_pledge.paymonths%TYPE;
  pay_amt dd_payment.payamt%TYPE;
  paydate dd_payment.paydate%TYPE;
  CURSOR curs_pp IS
  SELECT pl.idpledge, pl.pledgeamt, pl.paymonths, pay.payamt, pay.paydate
    FROM dd_pledge pl INNER JOIN dd_payment pay
      ON pl.idpledge = pay.idpledge
      ORDER BY idpledge, paydate;
BEGIN
  OPEN curs_pp;
  LOOP
    FETCH curs_pp into ppid, pl_amt, paymonths, pay_amt, paydate;
    EXIT WHEN curs_pp%NOTFOUND;
    DBMS_OUTPUT.PUT_LINE('REC FOUND: ID:|| ppid || ' for $' || pl_amt || ', ' ||
paymonths || ' times per month on ' || paydate);
  END LOOP;
  CLOSE curs_pp;
END;

--4-10
SELECT pl.idpledge, pl.pledgeamt, pl.paymonths, pay.payamt, pay.paydate
FROM dd_pledge pl INNER JOIN dd_payment pay
ON pl.idpledge = pay.idpledge
ORDER BY idpledge, paydate;

--4-11
DECLARE
  CURSOR donorCursor(TypeCode VARCHAR2, PledgeAmt NUMBER) IS
    SELECT d.IDDONOR,d.FIRSTNAME,d.LASTNAME,p.PLEDGEAMT
      FROM DD_DONOR d,DD_PLEDGE p
      WHERE d.IDDONOR =p.IDDONOR
      AND d.TYPECODE =TypeCode
      AND p.PLEDGEAMT >PledgeAmt;
BEGIN
  OPEN donorCursor;
  FOR rec_order in donorCursor('I',250) LOOP
    dbms_output.put_line(rec_order.IDDONOR||' '||rec_order.FIRSTNAME || ' '||' '||
rec_order.LASTNAME||' '||rec_order.PLEDGEAMT);
  END LOOP;
  FOR rec_order in donorCursor('D',500) LOOP

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        dbms_output.put_line(rec_order.IDDONOR||' '||rec_order.FIRSTNAME || ' ' || ' ' ||
rec_order.LASTNAME||' ' ||rec_order.PLEDGEAMT);
    END LOOP;
    CLOSE donorCursor;
END;

--4-12
DECLARE
    curs_var SYS_REFCURSOR;
    pid dd_payment.idpay%TYPE;
    pl_amt dd_pledge.pledgeamt%TYPE;
    paymonths dd_pledge.paymonths%TYPE;
    pay_amt dd_payment.payamt%TYPE;
    paydate dd_payment.paydate%TYPE;
    lv_s CHAR(10) := 'D';
    lv_d CHAR(10) := 'D';
    CURSOR curs_pp IS
    SELECT pl.idpledge, pl.pledgeamt, pl.paymonths, pay.payamt, pay.paydate
    FROM dd_pledge pl INNER JOIN dd_payment pay
    ON pl.idpledge = pay.idpledge;
BEGIN
    OPEN CURS_PP;
    if lv_s = 'D' THEN
        LOOP
            FETCH curs_pp into pid, pl_amt, paymonths, pay_amt, paydate;
            EXIT WHEN curs_pp%NOTFOUND;
            DBMS_OUTPUT.PUT_LINE('Description: ID:'|| pid || ' for $' || pl_amt || ', ' ||
paymonths || ' times per month on ' || paydate);
        END LOOP;
    else if lv_s = 'S' THEN
        LOOP
            FETCH curs_pp into pid, pl_amt, paymonths, pay_amt, paydate;
            EXIT WHEN curs_pp%NOTFOUND;
            DBMS_OUTPUT.PUT_LINE('Summary: Amount: $' || pay_amt || ' Total: $' || pay_amt
* paymonths );
        END LOOP;
    END IF;
END IF;
CLOSE curs_pp;
END;

--4-13
BEGIN
INSERT INTO DD_DONOR(iddonor) VALUES ( 301);
EXCEPTION
WHEN DUP_VAL_ON_INDEX THEN
DBMS_OUTPUT.PUT_LINE('ERROR: This Id is already assigned');
END;

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