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-- Task 1: SUPPLIERACCBAL Procedure
CREATE OR REPLACE PROCEDURE SUPPLIERACCBAL (
    pRegion REGION.r_regionkey%TYPE
)
LANGUAGE plpgsql AS
$SUPPLIERACCBAL$
DECLARE
    curNationAvgAccBal    SUPPLIER.s_acctbal%TYPE := 0;
    curNationName         NATION.n_name%TYPE     := '';
    curSuppAcctBal        SUPPLIER.s_acctbal%TYPE := 0;
    aComment              TEXT                   := '';
    suppCursor            RECORD;
BEGIN
    FOR suppCursor IN
        SELECT
            s.s_name,
            s.s_phone,
            s.s_acctbal,
            n.n_name,
            s.s_nationkey
        FROM supplier s
        JOIN nation   n ON s.s_nationkey = n.n_nationkey
        JOIN region   r ON n.n_regionkey = r.r_regionkey
        WHERE r.r_regionkey = pRegion
        ORDER BY n.n_name, s.s_name
    LOOP
        IF suppCursor.n_name <> curNationName THEN
            curNationName := suppCursor.n_name;
            RAISE NOTICE 'Nation: %', curNationName;
            RAISE NOTICE '';
            SELECT AVG(s_acctbal)
            INTO curNationAvgAccBal
            FROM supplier
            WHERE s_nationkey = suppCursor.s_nationkey;
            RAISE NOTICE '% % % %',
                RPAD('Supplier Name',20),
                RPAD('Phone',15),
                LPAD('Account Balance',20),
                RPAD('Comment',60);

            RAISE NOTICE '';
        END IF;
        IF suppCursor.s_acctbal > curNationAvgAccBal THEN
            aComment := 'Above nation avg of '
                || TO_CHAR(curNationAvgAccBal,'FM$9,999,999.00');
        ELSE
            aComment := 'Below nation avg of '
                || TO_CHAR(curNationAvgAccBal,'FM$9,999,999.00');
        END IF;
        curSuppAcctBal := suppCursor.s_acctbal;
        RAISE NOTICE '% % % %',
            RPAD(suppCursor.s_name,20),
            RPAD(suppCursor.s_phone,15),
            LPAD(TO_CHAR(curSuppAcctBal,'FM$9,999,999.00'),20),
            RPAD(aComment,60);
    END LOOP;
END;
$SUPPLIERACCBAL$;
-- Example call:
CALL SUPPLIERACCBAL(1);

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