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-- Task 2: SUP_COST_REPORT Function
CREATE OR REPLACE FUNCTION SUP_COST_REPORT(pPartKey PARTSUPP.ps_partkey%TYPE)
RETURNS TEXT
LANGUAGE plpgsql AS
$$
DECLARE
    cheapest RECORD;
    dearest RECORD;
    result TEXT;
BEGIN
    SELECT s.s_suppkey, s.s_name, ps.ps_supplycost
    INTO cheapest
    FROM partsupp ps
    JOIN supplier s ON ps.ps_suppkey = s.s_suppkey
    WHERE ps.ps_partkey = pPartKey
    ORDER BY ps.ps_supplycost
    LIMIT 1;
    SELECT s.s_suppkey, s.s_name, ps.ps_supplycost
    INTO dearest
    FROM partsupp ps
    JOIN supplier s ON ps.ps_suppkey = s.s_suppkey
    WHERE ps.ps_partkey = pPartKey
    ORDER BY ps.ps_supplycost DESC
    LIMIT 1;
    result := format(
        'Supplier with cheapest cost: %s, %s, %s. ' ||
        'Supplier with dearest cost: %s, %s, %s.',
        cheapest.s_suppkey,
        cheapest.s_name,
        TO_CHAR(cheapest.ps_supplycost, 'FM$999,999,990.00'),
        dearest.s_suppkey,
        dearest.s_name,
        TO_CHAR(dearest.ps_supplycost, 'FM$999,999,990.00')
    );
    RETURN result;
END;
$$;

-- Example calls:
SELECT SUP_COST_REPORT(3753) AS part_3753;
SELECT SUP_COST_REPORT(43064) AS part_43064;

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