```sql
CREATE OR REPLACE FUNCTION public.measurement_insert(
    city_id integer,
    logdate timestamp with time zone,
    peaktemp integer,
    unitsales integer)
    RETURNS SETOF measurement
    LANGUAGE 'plpgsql'
    RETURNS NULL ON NULL INPUT
AS $BODY$
BEGIN
    RETURN QUERY
    INSERT INTO measurement(city_id, logdate, peaktemp, unitsales)
    VALUES(city_id, logdate, peaktemp, unitsales)
    RETURNING *;

EXCEPTION
    WHEN check_violation THEN
    EXECUTE
    'CREATE TABLE measurement_y' || to_char(logdate, 'YYYYmMM') ||
    ' PARTITION OF measurement FOR VALUES FROM (''' ||
    date_trunc('month', logdate) ||
    ''') TO (''' ||
    (date_trunc('month', logdate) + '1month'::interval) ||
    ''')';

    RETURN QUERY
    INSERT INTO measurement(city_id, logdate, peaktemp, unitsales)
    VALUES(city_id, logdate, peaktemp, unitsales) RETURNING *;
END;
$BODY$;
```