**Final view**

create materialized view heat.whg\_sum\_warea\_egid as

select egid,

sum(warea) as warea,

count(\*) as count

from heat.whg

group by egid

create materialized view heat.whg\_sum\_warea\_building as

select bkey,

bid,

sum(w.warea) as warea,

sum(w.count) as count

from heat.modelresults3 as g,

heat.whg\_sum\_warea\_egid as w

where g.egid = w.egid

group by bkey, bid

create materialized view heat.mview\_warea\_ratio as

select m.egid,

e.warea / b.warea as ratio

from heat.modelsresults3 as m,

heat.whg\_sum\_warea\_building as b,

heat.whg\_sum\_warea\_egid as e

where m.bkey = b.bkey and m.bid = b.bid and m.egid = e.egid order by m.egid

-- CREATE MATERIALIZED VIEW heat.view\_bld\_gws\_wareas as

SELECT b.btype,

b.bid,

sum(g.warea) AS wareas,

count(g.warea) AS count

FROM heat.modelresults3 b,

heat.gwr\_whg\_2017 g

WHERE b.egid = g.egid

GROUP BY b.btype, b.bid

LIMIT 100;

For each EGID ratio of WAREA of the building to the sum of WAREA of all gws points mapping to the same building footprint:

--CREATE MATERIALIZED VIEW heat.mview\_warea\_ratio as

SELECT b.btype,

b.bid,

g.warea / c.wareas AS ratio

FROM heat.gwr\_whg\_2017 g,

heat.modelresults3 b,

( SELECT b\_1.bid,

b\_1.btype,

sum(g\_1.warea) AS wareas

FROM heat.gwr\_whg\_2017 g\_1,

heat.modelresults3 b\_1

WHERE g\_1.egid = b\_1.egid

GROUP BY b\_1.bid, b\_1.btype) c

WHERE g.egid = b.egid AND b.bid = c.bid AND b.btype::text = c.btype::text;

**Change column to numeric type**

ALTER table xx

ALTER column yy type numeric USING (NULLIF(yy,'')::numeric);

**Copy table**

CREATE TABLE new\_table AS

TABLE existing\_table;

**Take subset**

SELECT lname, city, state, phone

FROM Aleta.customer

WHERE state NOT IN ('AZ', 'NJ')

ORDER BY state;

UPDATE heat.walls

SET a\_wall\_m180\_0 = 0

WHERE a\_wall\_m180\_0 = 'Infinity';

ALTER table heat.horizons

ALTER column hor\_180\_0 type numeric USING (NULLIF(hor\_180\_0,'')::numeric),

ALTER column hor\_175\_0 type numeric USING (NULLIF(hor\_175\_0,'')::numeric),

ALTER column hor\_170\_0 type numeric USING (NULLIF(hor\_170\_0,'')::numeric),

ALTER column hor\_165\_0 type numeric USING (NULLIF(hor\_165\_0,'')::numeric),

ALTER column hor\_160\_0 type numeric USING (NULLIF(hor\_160\_0,'')::numeric),

ALTER column hor\_155\_0 type numeric USING (NULLIF(hor\_155\_0,'')::numeric),

ALTER column hor\_150\_0 type numeric USING (NULLIF(hor\_150\_0,'')::numeric),

ALTER column hor\_145\_0 type numeric USING (NULLIF(hor\_145\_0,'')::numeric),

ALTER column hor\_140\_0 type numeric USING (NULLIF(hor\_140\_0,'')::numeric),

ALTER column hor\_135\_0 type numeric USING (NULLIF(hor\_135\_0,'')::numeric),

ALTER column hor\_130\_0 type numeric USING (NULLIF(hor\_130\_0,'')::numeric),

ALTER column hor\_125\_0 type numeric USING (NULLIF(hor\_125\_0,'')::numeric),

ALTER column hor\_120\_0 type numeric USING (NULLIF(hor\_120\_0,'')::numeric),

ALTER column hor\_115\_0 type numeric USING (NULLIF(hor\_115\_0,'')::numeric),

ALTER column hor\_110\_0 type numeric USING (NULLIF(hor\_110\_0,'')::numeric),

ALTER column hor\_105\_0 type numeric USING (NULLIF(hor\_105\_0,'')::numeric),

ALTER column hor\_100\_0 type numeric USING (NULLIF(hor\_100\_0,'')::numeric),

ALTER column hor\_95\_0 type numeric USING (NULLIF(hor\_95\_0,'')::numeric),

ALTER column hor\_90\_0 type numeric USING (NULLIF(hor\_90\_0,'')::numeric),

ALTER column hor\_85\_0 type numeric USING (NULLIF(hor\_85\_0,'')::numeric),

ALTER column hor\_80\_0 type numeric USING (NULLIF(hor\_80\_0,'')::numeric),

ALTER column hor\_75\_0 type numeric USING (NULLIF(hor\_75\_0,'')::numeric),

ALTER column hor\_70\_0 type numeric USING (NULLIF(hor\_70\_0,'')::numeric),

ALTER column hor\_65\_0 type numeric USING (NULLIF(hor\_65\_0,'')::numeric),

ALTER column hor\_60\_0 type numeric USING (NULLIF(hor\_60\_0,'')::numeric),

ALTER column hor\_55\_0 type numeric USING (NULLIF(hor\_55\_0,'')::numeric),

ALTER column hor\_50\_0 type numeric USING (NULLIF(hor\_50\_0,'')::numeric),

ALTER column hor\_45\_0 type numeric USING (NULLIF(hor\_45\_0,'')::numeric),

ALTER column hor\_40\_0 type numeric USING (NULLIF(hor\_40\_0,'')::numeric),

ALTER column hor\_35\_0 type numeric USING (NULLIF(hor\_35\_0,'')::numeric),

ALTER column hor\_30\_0 type numeric USING (NULLIF(hor\_30\_0,'')::numeric),

ALTER column hor\_25\_0 type numeric USING (NULLIF(hor\_25\_0,'')::numeric),

ALTER column hor\_20\_0 type numeric USING (NULLIF(hor\_20\_0,'')::numeric),

ALTER column hor\_15\_0 type numeric USING (NULLIF(hor\_15\_0,'')::numeric),

ALTER column hor\_10\_0 type numeric USING (NULLIF(hor\_10\_0,'')::numeric),

ALTER column hor\_5\_0 type numeric USING (NULLIF(hor\_5\_0,'')::numeric);