

C = A intersection with B

create layer C with schema as union of schemas of A and B with A having the preference (if A.a is int and B.a is real then C.a is int)

for features x in A

for features y in B which intersect with x

- create a new feature z in C
- set attributes of z from y
- set attributes of z from x
- set geometry of z as intersection of x.geom and y.geom

C = A union with B

create layer C as above

for features x in A

for features y in B which intersect with x

- create a new feature z in C
- set attributes of z from y
- set attributes of z from x
- set geometry of z as intersection of x.geom and y.geom

set x.geom = x.geom difference y.geom

- create a new feature z in C
- set attributes of z from x
- set z.geom = x.geom

for features x in B

for features y in A which intersect with x

set x.geom = x.geom difference y.geom

- create a new feature z in C
- set attributes of z from x
- set z.geom = x.geom

C = A clipped union with B

create layer C as above

for features x in A

for features y in B which intersect with x

- create a new feature z in C
 - set attributes of z from y
 - set attributes of z from x
 - set geometry of z as intersection of x.geom and y.geom

- set x.geom = x.geom difference y.geom

- create a new feature z in C
 - set attributes of z from x
 - set z.geom = x.geom

C = A updated with B

create layer C with schema of A

for features x in A

- for features y in B which intersect with x

- set x.geom = x.geom difference y.geom

- create a new feature z in C
 - set attributes of z from x
 - set z.geom = x.geom

for features y in B

- create a new feature z in C
 - set attributes of z from y
 - set z.geom = x.geom

C = A clipped with B

create layer C with schema of A

for features x in A

- create geometry g

- for features y in B which intersect with x

- set g = g union y.geom

- create a new feature z in C
 - set attributes of z from x
 - set z.geom = x.geom intersection with g

C = A erased with B

create layer C with schema of A

for features x in A

 create geometry g

 for features y in B which intersect with x

 set g = g union y.geom

create a new feature z in C

 set attributes of z from x

 set z.geom = x.geom difference with g