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