

### Sub-Plan 3

UDF<sub>similarity(p1.p\_type, p1.p\_type)>=0.3</sub>

### Sub-Plan 2

$\sigma_{\text{frequency} \geq 2}$

$\chi_{l1.l\_partkey, l2.l\_partkey, p1.p\_type, p2.p\_type, \text{COUNT}(*)\text{ as frequency}}$

$\bowtie_{l1.l\_partkey=p1.p\_partkey}$

part p2

$\bowtie_{l1.l\_partkey=p1.p\_partkey}$

part p1

### Sub-Plan 1

$\bowtie_{l1.l\_orderkey=l2.l\_orderkey \wedge l1.l\_partkey \neq l2.l\_partkey}$

$\sigma_{l1.l\_shipdate > \text{date '1998-03-15'}}$

$\sigma_{l1.l\_shipdate > \text{date '1998-03-15'}}$

lineitem l1

lineitem l2