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1: procedure MAP( $t, P$ )
2:    $[Q_1, Q_2, \dots, Q_n] \leftarrow$  LOADQUERIES()
3:   for all  $Q_i \in [Q_1, Q_2, \dots, Q_n]$  do
4:     if  $t \in Q_i$  then
5:       INITIALIZE.ASSOCIATIVEARRAY( $H$ )
6:       for all  $\langle k, f \rangle \in P$  do
7:          $H\{k\} \leftarrow w_{t,q} \cdot w_{t,d}$ 
8:       EMIT( $i, H$ )
1: procedure REDUCE( $i, [H_1, H_2, H_3, \dots]$ )
2:   INITIALIZE.ASSOCIATIVEARRAY( $H_f$ )
3:   for all  $H \in [H_1, H_2, H_3, \dots]$  do
4:     MERGE( $H_f, H$ )
5:   EMIT( $i, H_f$ )

```