
Algorithm 1 Sub-query generation

Require: $T = \{t_1, \dots, t_n\}$, // set of triple patterns

$D = \{D_1, \dots, D_n\}$ // sets of data sources matching to the triple patterns

```
1:  $queries = \emptyset$ ,  $separateQueries = \emptyset$ 
2: for each  $t_i \in T$  do
3:   if  $D_i = \{d\}$  then
4:      $q = queries.getQuery(d)$ 
5:     if  $q$  not null then
6:        $q.T = q.T + t_i$ 
7:     else
8:        $queries = queries + (\{t_i\}, \{\}, d)$ 
9:     end if
10:  else
11:    for each  $d_j \in D_i$  do
12:       $separateQueries = separateQueries + (\{t_i\}, \{\}, d_j)$ 
13:    end for
14:  end if
15: end for
16: return  $queries \cup separateQueries$  // Return all queries
```
