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1  /*
2   Determine the top 5 actors, writers, or producers who have
3   worked on the same movie as Kevin Bacon by the proportion of
4   their projects they worked on movies with Kevin Bacon vs how
5   many projects they worked on (but only report for people who
6   have worked on at least 5 movie projects).
7   */
8
9  create temp table baconMovies as
10 select tconst
11 from titlePrincipals p
12 join nameBasics b on p.nconst = b.nconst
13 where b.primaryname = 'Kevin Bacon';
14
15 create temp table eligiblePeople as
16 select distinct p.nconst
17 from baconMovies b
18 join titlePrincipals p on b.tconst = p.tconst
19 where (p.category = 'actor' or p.category = 'writer' or p.category = 'producer')
20 and p.nconst not in (select nconst from nameBasics where primaryname = 'Kevin Bacon
21 ');
22
23 select q1.name, ((q2.baconMovies*1.0)/q1.totalMovies) as baconProportion
24 from(
25     select n.primaryname as name, count(distinct p.tconst) as totalMovies
26     from titlePrincipals p join eligiblePeople e on p.nconst = e.nconst
27     join nameBasics n on n.nconst = e.nconst
28     where (p.category = 'actor' or p.category = 'writer' or p.category = 'producer')
29     group by n.primaryname
30     having count(distinct p.tconst) >=5
31 ) as q1,

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31      (
32      select n.primaryname as name, count(distinct p.tconst) as baconMovies
33      from titleprincipals p
34      join eligiblePeople e on p.nconst = e.nconst
35      join nameBasics n on n.nconst = e.nconst
36      join baconMovies b on b.tconst = p.tconst
37      where (p.category = 'actor' or p.category = 'writer' or p.category = 'producer')
38      group by n.primaryname
39      ) as q2
40 where q1.name = q2.name
41 order by baconProportion desc
42 limit 5;
43
44 /* Testing */
45 select distinct p.tconst, n.primaryname
46 from titleprincipals p, nameBasics n
47 where n.primaryname = 'Carly Norris-Kahane' and n.nconst = p.nconst;
48
49 select distinct p.tconst, n.primaryname
50 from titleprincipals p, nameBasics n
51 where n.primaryname = 'Kevin Bacon' and n.nconst = p.nconst
52 and p.tconst in (select distinct p.tconst from titleprincipals p, nameBasics n
53 where n.primaryname = 'Carly Norris-Kahane' and n.nconst = p.nconst);
54 /* should be 8 */

```