

```

1  /*
2   Print the unique names of movies that are more than two
3   links away from Kevin Bacon that were released in 2020 or later.
4   */
5
6  /*
7   ===== Temporary Tables =====
8   directMovies
9   oneLinkPeople
10  oneLinkMovies
11  twoLinkPeople
12  twoLinkMovies
13  =====
14  */
15
16 /*
17  A movie is directly linked to Kevin Bacon if Kevin Bacon
18  was an actor, director, or producer of that movie.
19  */
20 create temp table directMovies as
21 select tconst
22 from titlePrincipals p
23 join nameBasics b on p.nconst = b.nconst
24 where b.primaryname = 'Kevin Bacon'
25    and (p.category = 'actor' or p.category = 'director' or p.category = 'producer');
26
27 /*
28  A movie is one link away from Kevin Bacon if it is not
29  directly linked to Kevin Bacon AND if has an actor, director,
30  or producer who was also in a movie directly linked to Kevin Bacon
31  (at any time in the past).

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32  */
33  create temp table oneLinkPeople as
34  select distinct p.nconst
35  from directMovies d
36  join titlePrincipals p on d.tconst = p.tconst
37  where (p.category = 'actor' or p.category = 'director' or p.category = 'producer')
38  and p.nconst not in (select nconst from nameBasics where primaryname = 'Kevin Bacon
    ');
39
40  create temp table oneLinkMovies as
41  select distinct p.tconst
42  from titlePrincipals p join oneLinkPeople olp on olp.nconst = p.nconst
43  where (p.category = 'actor' or p.category = 'director' or p.category = 'producer')
44  and p.tconst not in (select tconst from directMovies);
45
46  /*
47   A movie is two links away from Kevin Bacon if it is not directly
48   linked or one link away from Kevin Bacon and if it has an actor, director,
49   or producer who is in a movie one link away from Kevin Bacon.
50  */
51  create temp table twoLinkPeople as
52  select distinct p.nconst
53  from oneLinkMovies olm
54  join titlePrincipals p on olm.tconst = p.tconst
55  where (p.category = 'actor' or p.category = 'director' or p.category = 'producer')
56  and p.nconst not in (select nconst from nameBasics where primaryname = 'Kevin Bacon
    ')
57  and p.nconst not in (select nconst from oneLinkPeople);
58
59  create temp table twoLinkMovies as
60  select distinct p.tconst

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61 from titlePrincipals p join twoLinkPeople tlp on tlp.nconst = p.nconst
62 where (p.category = 'actor' or p.category = 'director' or p.category = 'producer')
63 and p.tconst not in (select tconst from directMovies)
64 and p.tconst not in (select tconst from oneLinkMovies);
65
66 /*
67  Print the unique names of movies that are more than two
68  links away from Kevin Bacon that were released in 2020 or later.
69  */
70 select distinct primaryTitle as title, startyear as releaseYear
71 from titleBasics t
72 where t.startyear >= 2020
73 and t.tconst not in (select tconst from directMovies)
74 and t.tconst not in (select tconst from oneLinkMovies)
75 and t.tconst not in (select tconst from twoLinkMovies);
```

