

Kun Shan

Worksheet Query Builder

-- Kun Shan

-- 1

```
with Soc(a,b,path) as (
  (select PERSON a, FRIEND b, PERSON || '.' || FRIEND from SOCIALNETWORK)
  union all
  (select orig.PERSON, soc1.b, orig.PERSON || '.' || path
   from SOCIALNETWORK orig, Soc soc1
   where soc1.a = orig.FRIEND and path not like '%' || orig.PERSON || '%')
)
select distinct B from Soc where a = 'Brad';
```

Query R... x

SQL | All Rows Fetched: 16 in 0.042 seconds

B

1	Penny
2	Dave
3	Leo
4	Gary
5	Amy
6	Oliver

SQL History

SQL	Connect...	TimeSt...	Type	Executed	Duratio...
with Soc(a,b,path) as ((select PERSON a, FRIEND...	CSC453	24-JAN-...	SQL	1	0.042
with Histogram as (select Risk_Score,count(*) c...	CSC453	23-JAN-...	SQL	1	0.03
with RiskScoresWithMinLoans as (select Risk_Sc...	CSC453	23-JAN-...	SQL	1	0.022
with Histogram as (select Risk_Score,count(*) c...	CSC453	23-JAN-...	SQL	1	0.035
drop table loan; create table loan (Amount num...	CSC453	23-JAN-...	Script	1	3.166
select ZNAME from (select ZNAME,sum(TIMETOFE...	CSC453	23-JAN-...	SQL	1	0.049

Worksheet Query Builder

-- 2

```
with Soc(a,b,path) as (
  (select PERSON a, FRIEND b, PERSON || '.' || FRIEND from SOCIALNETWORK)
  union all
  (select orig.PERSON, soc1.b, orig.PERSON || '.' || path
   from SOCIALNETWORK orig, Soc soc1
   where soc1.a = orig.FRIEND and path not like '%' || orig.PERSON || '%')
)
select distinct B from Soc where b != 'Brad'
minus
select distinct B from Soc where a = 'Brad';
```

Query Result x

SQL | All Rows Fetched: 0 in 0.024 seconds

B

SQL History

SQL	Connect...	TimeSt...	Type	Executed	Duratio...
with Soc(a,b,path) as ((select PERSON a, FRIEND...	CSC453	24-JAN-...	SQL	1	0.024
with Soc(a,b,path) as ((select PERSON a, FRIEND...	CSC453	24-JAN-...	SQL	1	0.042
with Histogram as (select Risk_Score,count(*) c...	CSC453	23-JAN-...	SQL	1	0.03
with RiskScoresWithMinLoans as (select Risk_Sc...	CSC453	23-JAN-...	SQL	1	0.022
with Histogram as (select Risk_Score,count(*) c...	CSC453	23-JAN-...	SQL	1	0.035
drop table loan; create table loan (Amount num...	CSC453	23-JAN-...	Script	1	3.166

Worksheet Query Builder

```
-- 3
with Soc(a,b,path,cnt) as (
  (select PERSON a, FRIEND b, PERSON || '.' || FRIEND, 1 from SOCIALNETWORK)
  union all
  (select orig.PERSON, soc1.b, orig.PERSON || '.' || path, cnt+1
   from SOCIALNETWORK orig, Soc soc1
   where soc1.a = orig.FRIEND and path not like '%' || orig.PERSON || '%')
)
select a from Soc where b = 'Christine' and cnt>1
minus
select a from Soc where b = 'Christine' and cnt=1;
```

Query Result x

SQL | All Rows Fetched: 4 in 0.057 seconds

A

1	Brad
2	Fiona
3	Gary
4	Oliver

SQL History

SQL	Connect...	TimeSt...	Type	Executed	Duratio...
with Soc(a,b,path,cnt) as ((select PERSON a, FRI...	CSC453	24-JAN-...	SQL	1	0.057
with Soc(a,b,path) as ((select PERSON a, FRIEND...	CSC453	24-JAN-...	SQL	1	0.024
with Soc(a,b,path) as ((select PERSON a, FRIEND...	CSC453	24-JAN-...	SQL	1	0.042
with Histogram as (select Risk_Score,count(*) c...	CSC453	23-JAN-...	SQL	1	0.03
with RiskScoresWithMinLoans as (select Risk_Sc...	CSC453	23-JAN-...	SQL	1	0.022
with Histogram as (select Risk_Score,count(*) c...	CSC453	23-JAN-...	SQL	1	0.035

Worksheet Query Builder

```
-- 4
with Soc(a,b,path,cnt) as (
  (select PERSON a, FRIEND b, PERSON || '.' || FRIEND, 1 from SOCIALNETWORK)
  union all
  (select orig.PERSON, soc1.b, orig.PERSON || '.' || path, cnt+1
   from SOCIALNETWORK orig, Soc soc1
   where soc1.a = orig.FRIEND and path not like '%' || orig.PERSON || '%')
)
select path from Soc where a = 'Amy' and b = 'James' and cnt =
(select min(cnt) from Soc where a = 'Amy' and b = 'James');
```

Query Result x

SQL | All Rows Fetched: 1 in 0.025 seconds

PATH

1	Amy.Christine.Dave.James
---	--------------------------

SQL History

SQL	Connect...	TimeSt...	Type	Executed	Duratio...
with Soc(a,b,path,cnt) as ((select PERSON a, FRI...	CSC453	24-JAN-...	SQL	1	0.025
with Soc(a,b,path,cnt) as ((select PERSON a, FRI...	CSC453	24-JAN-...	SQL	1	0.057
with Soc(a,b,path) as ((select PERSON a, FRIEND...	CSC453	24-JAN-...	SQL	1	0.024
with Soc(a,b,path) as ((select PERSON a, FRIEND...	CSC453	24-JAN-...	SQL	1	0.042
with Histogram as (select Risk_Score,count(*) c...	CSC453	23-JAN-...	SQL	1	0.03
with RiskScoresWithMinLoans as (select Risk_Sc...	CSC453	23-JAN-...	SQL	1	0.022