

Kun Shan

Worksheet Query Builder

Kun Shan

```
-- 1
select RENTALCOMPANY from BYCAR where MILEAGE >= 27;

-- 2
select TID from TRIPS where TRAVELMODE='Train' and FARE > 150;

-- 3
select TID,FARE from TRIPS where TRIPSTATE = 'Non-US';
```

Query R... x

SQL | All Rows Fetched: 3 in 0.032 seconds

RENTALCOMPANY
1 Personal
2 Personal
3 Personal

SQL History

SQL	Connect...	TimeSt...	Type	Executed	Duratio...
select RENTALCOMPANY from BYCAR where MILEA...	CSC453	11-JAN-...	SQL	1	0.032
select REVIEWER.* from REVIEWER left outer join...	CSC453	11-JAN-...	SQL	1	0.02
select REVIEWER.NAME,RESTAURANT.NAME from R...	CSC453	11-JAN-...	SQL	1	0.016
select NAME from REVIEWER left outer join RATI...	CSC453	11-JAN-...	SQL	1	0.021
select NAME from RESTAURANT left outer join R...	CSC453	11-JAN-...	SQL	1	1.436

Worksheet Query Builder

```
-- 2
select TID from TRIPS where TRAVELMODE='Train' and FARE > 150;

-- 3
select TID,FARE from TRIPS where TRIPSTATE = 'Non-US';

-- 4
select TRAVELMODE,min(FARE) from TRIPS group by TRAVELMODE;

-- 5
select BYPLANE.TID from BYPLANE
```

Query Result x

SQL | All Rows Fetched: 5 in 0.024 seconds

TID
1 4
2 6
3 10
4 12
5 24

SQL History

SQL	Connect...	TimeSt...	Type	Executed	Duratio...
select TID from TRIPS where TRAVELMODE='Train' ...	CSC453	11-JAN-...	SQL	1	0.024
select RENTALCOMPANY from BYCAR where MILEA...	CSC453	11-JAN-...	SQL	1	0.032
select REVIEWER.* from REVIEWER left outer join...	CSC453	11-JAN-...	SQL	1	0.02
select REVIEWER.NAME,RESTAURANT.NAME from R...	CSC453	11-JAN-...	SQL	1	0.016
select NAME from REVIEWER left outer join RATI...	CSC453	11-JAN-...	SQL	1	0.021

Worksheet Query Builder

```

-- 3
select TID,FARE from TRIPS where TRIPSTATE = 'Non-US';

-- 4
select TRAVELMODE,min(FARE) from TRIPS group by TRAVELMODE;

-- 5
select BYPLANE.TID from BYPLANE
left outer join TRIPS on TRIPS.TID = BYPLANE.TID
where CLASS = 'Business' and FARE > 1000;

```

Query Result x

SQL | All Rows Fetched: 8 in 7.223 seconds

	TID	FARE
1	5	2300
2	7	5000
3	10	229
4	11	4500
5	12	258
6	14	138
7	17	3700
8	22	40

SQL History

SQL	Connect...	TimeSt...	Type	Executed	Duratio...
select TID,FARE from TRIPS where TRIPSTATE = 'N...	CSC453	11-JAN-...	SQL	1	7.223
select TID from TRIPS where TRAVELMODE='Train' ...	CSC453	11-JAN-...	SQL	1	0.024
select RENTALCOMPANY from BYCAR where MILEA...	CSC453	11-JAN-...	SQL	1	0.032
select REVIEWER.* from REVIEWER left outer join...	CSC453	11-JAN-...	SQL	1	0.02

Worksheet Query Builder

```

-- 4
select TRAVELMODE,min(FARE) from TRIPS group by TRAVELMODE;

-- 5
select BYPLANE.TID from BYPLANE
left outer join TRIPS on TRIPS.TID = BYPLANE.TID
where CLASS = 'Business' and FARE > 1000;

-- 6
select TRIPS.* from TRIPS
inner join TRIPS T2 on TRIPS.TRIPSTATE = T2.TRIPSTATE

```

Query Result x

SQL | All Rows Fetched: 3 in 0.018 seconds

	TRAVELMODE	MIN(FARE)
1	Car	59
2	Plane	600
3	Train	13

SQL History

SQL	Connect...	TimeSt...	Type	Executed	Duratio...
select TRAVELMODE,min(FARE) from TRIPS group ...	CSC453	11-JAN-...	SQL	1	0.018
select TID,FARE from TRIPS where TRIPSTATE = 'N...	CSC453	11-JAN-...	SQL	1	7.223
select TID from TRIPS where TRAVELMODE='Train' ...	CSC453	11-JAN-...	SQL	1	0.024
select RENTALCOMPANY from BYCAR where MILEA...	CSC453	11-JAN-...	SQL	1	0.032

Worksheet Query Builder

```
-- 5
select BYPLANE.TID from BYPLANE
  left outer join TRIPS on TRIPS.TID = BYPLANE.TID
where CLASS = 'Business' and FARE > 1000;
```

```
-- 6
select TRIPS.* from TRIPS
  inner join TRIPS T2 on TRIPS.TRIPSTATE = T2.TRIPSTATE
where TRIPS.TRAVELMODE = 'Car' and T2.TRAVELMODE = 'Train'
and TRIPS.FARE > T2.FARE;
```

Query Result x

SQL | All Rows Fetched: 1 in 2.235 seconds

TID
3

SQL History

SQL	Connect...	TimeSt...	Type	Executed	Duration...
select BYPLANE.TID from BYPLANE left outer join...	CSC453	11-JAN-...	SQL	1	2.235
select TRAVELMODE,min(FARE) from TRIPS group ...	CSC453	11-JAN-...	SQL	1	0.018
select TID,FARE from TRIPS where TRIPSTATE = 'N...	CSC453	11-JAN-...	SQL	1	7.223
select TID from TRIPS where TRAVELMODE='Train' ...	CSC453	11-JAN-...	SQL	1	0.024
select RENTALCOMPANY from BYCAR where MILEA...	CSC453	11-JAN-...	SQL	1	0.022

Worksheet Query Builder

```
-- 6
select TRIPS.* from TRIPS
  inner join TRIPS T2 on TRIPS.TRIPSTATE = T2.TRIPSTATE
where TRIPS.TRAVELMODE = 'Car' and T2.TRAVELMODE = 'Train'
and TRIPS.FARE > T2.FARE;
```

```
-- 7
select distinct BYCAR.TID,C.TID from BYCAR
  inner join BYCAR C on BYCAR.MILEAGE = C.MILEAGE
where BYCAR.TID!=C.TID;
```

Query Result x

SQL | All Rows Fetched: 1 in 0.053 seconds

TID	TRIPSTATE	TRAVELMODE	FARE
1	15 IL	Car	380

SQL History

SQL	Connect...	TimeSt...	Type	Executed	Duration...
select TRIPS.* from TRIPS inner join TRIPS T2 on...	CSC453	11-JAN-...	SQL	1	0.053
select BYPLANE.TID from BYPLANE left outer join...	CSC453	11-JAN-...	SQL	1	2.235
select TRAVELMODE,min(FARE) from TRIPS group ...	CSC453	11-JAN-...	SQL	1	0.018
select TID,FARE from TRIPS where TRIPSTATE = 'N...	CSC453	11-JAN-...	SQL	1	7.223
select TID from TRIPS where TRAVELMODE='Train' ...	CSC453	11-JAN-...	SQL	1	0.024

Worksheet Query Builder

```

-- 7
select distinct BYCAR.TID,C.TID from BYCAR
  inner join BYCAR C on BYCAR.MILEAGE = C.MILEAGE
 where BYCAR.TID!=C.TID;

-- 8
select T1.TID,T2.TID from TRIPS T1
  cross join TRIPS T2
 left outer join BYTRAIN B1 on T1.TID = B1.TID
 left outer join BYTRAIN B2 on T2.TID = B2.TID
 where T1.TRAVELMODE = 'Train' and T2.TRAVELMODE = 'Train'

```

Query Result x

SQL | All Rows Fetched: 8 in 0.064 seconds

TID	TID_1
1	25
2	18
3	1
4	1
5	9
6	25
7	15
8	9

SQL History

SQL	Connect...	TimeSt...	Type	Executed	Duratio...
select distinct BYCAR.TID,C.TID from BYCAR inn...	CSC453	11-JAN-...	SQL	1	0.064
select TRIPS.* from TRIPS inner join TRIPS T2 on...	CSC453	11-JAN-...	SQL	1	0.053
select BYPLANE.TID from BYPLANE left outer join...	CSC453	11-JAN-...	SQL	1	2.235
select TRAVELMODE,min(FARE) from TRIPS group ...	CSC453	11-JAN-...	SQL	1	0.018
select TID,FARE from TRIPS where TRIPS.TATE...	CSC453	11-JAN-...	SQL	1	7.222

Worksheet Query Builder

```

-- 8
select T1.TID,T2.TID from TRIPS T1
  cross join TRIPS T2
 left outer join BYTRAIN B1 on T1.TID = B1.TID
 left outer join BYTRAIN B2 on T2.TID = B2.TID
 where T1.TRAVELMODE = 'Train' and T2.TRAVELMODE = 'Train'
    and T2.TID > T1.TID and B2.TRAINSPEED > B1.TRAINSPEED;

-- 9

```

Query Result x

SQL | All Rows Fetched: 10 in 0.043 seconds

TID	TID_1
1	6
2	4
3	6
4	8
5	4
6	6
7	8
8	12
9	6
10	12

SQL History

SQL	Connect...	TimeSt...	Type	Executed	Duratio...
select T1.TID,T2.TID from TRIPS T1 cross join T...	CSC453	11-JAN-...	SQL	1	0.043
select distinct BYCAR.TID,C.TID from BYCAR inn...	CSC453	11-JAN-...	SQL	1	0.064
select TRIPS.* from TRIPS inner join TRIPS T2 on...	CSC453	11-JAN-...	SQL	1	0.053

Worksheet Query Builder

```

-- 9
select T1.TID,T2.TID from TRIPS T1
  inner join TRIPS T2 on T1.TRIPSTATE = T2.TRIPSTATE
                    and T1.TRAVELMODE = T2.TRAVELMODE
 where T2.TID > T1.TID;

-- 10
select distinct T1.TRIPSTATE from TRIPS T1
  inner join TRIPS T2

```

Query Result x

SQL | All Rows Fetched: 26 in 0.025 seconds

TID	TID_1
17	20
18	21
19	21
20	21
21	21
22	22
23	22
24	22
25	23
26	24

SQL History

SQL	Connect...	TimeSt...	Type	Executed	Duratio...
select T1.TID,T2.TID from TRIPS T1 inner join T...	CSC453	11-JAN-...	SQL	1	0.025
select T1.TID,T2.TID from TRIPS T1 cross join T...	CSC453	11-JAN-...	SQL	1	0.043
select distinct BYCAR.TID,C.TID from BYCAR inn...	CSC453	11-JAN-...	SQL	1	0.064

Worksheet Query Builder

```

-- 9
select T1.TID,T2.TID from TRIPS T1
  inner join TRIPS T2 on T1.TRIPSTATE = T2.TRIPSTATE
                    and T1.TRAVELMODE = T2.TRAVELMODE
 where T2.TID > T1.TID;

-- 10
select distinct T1.TRIPSTATE from TRIPS T1
  inner join TRIPS T2
    on T1.TRIPSTATE=T2.TRIPSTATE and T1.TRAVELMODE!=T2.TRAVELMODE
  inner join TRIPS T3
    on T3.TRIPSTATE=T2.TRIPSTATE and T3.TRAVELMODE!=T2.TRAVELMODE and T3.TRAVELMODE!=T1.TRAVELMODE
 where T1.TID < T2.TID and T2.TID < T3.TID;

```

Query Result x

SQL | All Rows Fetched: 1 in 0.021 seconds

TRIPSTATE
1 IL

SQL History

SQL	Connect...	TimeSt...	Type	Executed	Duratio...
select distinct T1.TRIPSTATE from TRIPS T1 inne...	CSC453	11-JAN-...	SQL	1	0.021
select T1.TID,T2.TID from TRIPS T1 inner join T...	CSC453	11-JAN-...	SQL	1	0.025
select T1.TID,T2.TID from TRIPS T1 cross join T...	CSC453	11-JAN-...	SQL	1	0.043
select distinct BYCAR.TID,C.TID from BYCAR inn...	CSC453	11-JAN-...	SQL	1	0.064
select TRIPS.* from TRIPS inner join TRIPS T2 on...	CSC453	11-JAN-...	SQL	1	0.053
select BYPLANE.TID from BYPLANE left outer join...	CSC453	11-JAN-...	SQL	1	0.025