

Kun Shan

Worksheet Query Builder

```
-- build table
drop table loan;

create table loan
(
    Amount number(6,0),
    Loan_Date date,
    Loan_Title varchar(100),
    Risk_Score number(3),
    Debt_To_Income_Ratio number(8,2),
    Zipcode number(6,0),
    State varchar(2),
    ...
)
```

Script Output x Task completed in 3.184 seconds

1 row inserted.

1 row inserted.

1 row inserted.

SQL History

SQL	Connect...	TimeSt...	Type	Executed	Duratio...
drop table loan; create table loan (Amount num...	CSC453	23-JAN-...	Script	1	3.166
select ZNAME from (select ZNAME,sum(TIMETOFEE...	CSC453	23-JAN-...	SQL	1	0.049
select ANAME from ANIMAL where ANAME not like...	CSC453	23-JAN-...	SQL	1	0.018
select ZNAME from (select ZID,ZNAME,ANIMALID fr...	CSC453	23-JAN-...	SQL	1	0.022
select AID,ANAME from ANIMAL where TIMETOF...	CSC453	23-JAN-...	SQL	1	0.025
select sum(TIMETOFEEED) from ANIMAL where ACA...	CSC453	23-JAN-...	SQL	1	0.039

Worksheet Query Builder

```
-- Kun Shan

-- i
with Histogram as (
    select Risk_Score,count(*) cnt from loan group by Risk_Score
    order by cnt desc
)
select * from Histogram;

-- ii
with RiskScoresWithMinLoans as (
    select Risk_Score mScore from
```

Script Output x Query R... x

SQL | Fetched 50 rows in 0.035 seconds

RISK_SCORE	CNT
1	0
2	693
3	509
4	698
5	680

SQL History

SQL	Connect...	TimeSt...	Type	Executed	Duratio...
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(TIMETOFEE...	CSC453	23-JAN-...	SQL	1	0.049
select ANAME from ANIMAL where ANAME not like...	CSC453	23-JAN-...	SQL	1	0.018
select ZNAME from (select ZID,ZNAME,ANIMALID fr...	CSC453	23-JAN-...	SQL	1	0.022
select AID,ANAME from ANIMAL where TIMETOF...	CSC453	23-JAN-...	SQL	1	0.025

Worksheet Query Builder

```
-- ii
with RiskScoresWithMinLoans as (
  select Risk_Score mScore from
  (select min(cnt) mCnt from
  (select Risk_Score,count(*) cnt from loan group by Risk_Score)) a
  left outer join
  (select Risk_Score,count(*) cnt from loan group by Risk_Score) b
  on a.mCnt = b.cnt
)
select * from RiskScoresWithMinLoans;
-- iii
```

Script Output x Query Result x

SQL | Fetched 50 rows in 0.022 seconds

	MSCORE
1	412
2	419
3	429
4	444
5	450

SQL History

SQL	Connect...	TimeSt...	Type	Executed	Duratio...
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(TIMETOFEE...	CSC453	23-JAN-...	SQL	1	0.049
select ANAME from ANIMAL where ANAME not like...	CSC453	23-JAN-...	SQL	1	0.018
select ZNAME from (select ZID,ZNAME,ANIMALID fr...	CSC453	23-JAN-...	SQL	1	0.022

Worksheet Query Builder

```
-- iii
with Histogram as (
  select Risk_Score,count(*) cnt from loan group by Risk_Score
  order by cnt desc
),RiskScoresWithMinLoans as (
  select Risk_Score mScore from
  (select min(cnt) mCnt from Histogram) a
  left outer join Histogram b
  on a.mCnt = b.cnt
)
select loan.Risk_Score,Loan_Title from RiskScoresWithMinLoans
left outer join loan
on loan.Risk_Score = RiskScoresWithMinLoans.mScore;
```

Script Output x Query Result x

SQL | Fetched 50 rows in 0.03 seconds

	RISK_SCORE	LOAN_TITLE
1	703	Consolidating Debt
2	715	Want to consolidate my debt
3	645	Trinfiniti
4	700	For Justin.
5	573	timaerst

SQL History

SQL	Connect...	TimeSt...	Type	Executed	Duratio...
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(TIMETOFEE...	CSC453	23-JAN-...	SQL	1	0.049
select ANAME from ANIMAL where ANAME not like...	CSC453	23-JAN-...	SQL	1	0.018