

Access: How to Unduplicated Count Number of Students in the Program

Example 1: In Table below, count unduplicated number of students have loans in the program. Note: NetLoan Column may have blank or 0 amount.

EnrolledLoan					
Program	StudentName	StuNum	StartDate	LDA	NetLoan
MBA	CC	1003	7/29/2019	10/11/2020	4333
MBA	DD	1004	7/29/2019	11/12/2020	
MBA	EE	1005	3/11/2019	5/24/2020	0
MBA	EE	1005	10/8/2018	2/3/2019	5561
MBA	FF	1006	11/12/2018	3/13/2020	0
MBA	GG	1007	3/12/2018	5/19/2019	14844
MBA	GG	1007	2/4/2019	4/10/2020	16761
SRT	AA	1001	7/29/2019	5/24/2020	9401
SRT	BB	1002	3/11/2019	5/24/2020	12500
SRT	BB	1002	10/8/2018	2/3/2019	9401

Access or SQL Server SQL:

```
SELECT T.Program, COUNT(T.StuNum) AS NumHasLoan
FROM (SELECT DISTINCT Program, StuNum FROM EnrolledLoan WHERE NetLoan > 0) AS T
GROUP BY T.Program
```

Result	
Program	NumHasLoan
MBA	3
SRT	2

Example 2: In Table below, count unduplicated number of students have loans in the program. Note: NetLoan column has no blank nor 0 amount (simple case).

ENLoan					
Program	StudentName	StuNum	StartDate	LDA	NetLoan
MBA	CC	1003	7/29/2019	10/11/2020	4333
MBA	DD	1004	7/29/2019	11/12/2020	1254
MBA	EE	1005	3/11/2019	5/24/2020	1545
MBA	EE	1005	10/8/2018	2/3/2019	5561
MBA	FF	1006	11/12/2018	3/13/2020	3215
MBA	GG	1007	3/12/2018	5/19/2019	14844
MBA	GG	1007	2/4/2019	4/10/2020	16761
SRT	AA	1001	7/29/2019	5/24/2020	9401
SRT	BB	1002	3/11/2019	5/24/2020	12500
SRT	BB	1002	10/8/2018	2/3/2019	9401

Access or SQL Server SQL:

```
SELECT T.Program, COUNT(T.StuNum) AS NumHasLoan  
FROM (SELECT DISTINCT Program, StuNum FROM ENLoan) AS T  
GROUP BY T.Program
```

Result	
Program	NumHasLoan
MBA	5
SRT	2

In SQL Server you may simple the code as below:

```
SELECT Program, COUNT(DISTINCT StuNum) AS NumHasLoan  
FROM EnrolledLoan  
GROUP BY Program
```