

Re: Calculating Proportions of values within a field or grouped

Source: <http://www.tech-archive.net/Archive/Access/microsoft.public.access.queries/2004-10/0808.html>

From: Imran J Khan (Khan_at_discussions.microsoft.com)

Date: 10/07/04

Date: Thu, 7 Oct 2004 03:25:03 -0700

Thanks a lot Gary. That was very helpful. However, if possible, could resubmit the query with changes as follows

I have following fields

[Age] ; [Education]

In a single QBE, I want to be able to find out the proportions of records of each distinct [Education] for each distinct [Age], and if possible I would also like to group [Age] in intervals of 5

Thanks in advance

Imran

"Gary Walter" wrote:

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>
> "Imran J Khan" wrote:
> > I have following fields
> > [Age] ; [Education] ; [Owns_CellPhone] etc.
> > In a single QBE, I want to be able to find out the proportions of records
> > for either value for [Owns_CellPhone] for each distinct [Age] and
> > [Education], and if possible I would also like to group [Age] in intervals of
> > 5
>
> Hi Imran,
>
> I might use the Partition function to create
> your age range, then group on this and Education.
> Count the number in each group, then sum the
> absolute value of Owns_CellPhone (if is Yes/No
> field) to count number of owners in group.
>
> Something like (if your table name were "People"):
>
> SELECT
> Partition([Age],0,100,5) AS AgeRange,
> People.Education, Count(*) AS AgeRangeCount,
> Sum(Abs([Owns_CellPhone])) AS CntOwns,
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> *[CntOwns]/[AgeRangeCount] AS Proportion*
> *FROM People*
> *GROUP BY Partition([Age],0,100,5), People.Education;*
>
> *if your data looked like:*
>
> *PersonID Age Education Owns_CellPhone*
> *1 4 PreSchool No*
> *2 7 GradeSchool No*
> *3 9 GradeSchool Yes*
> *4 10 GradeSchool No*
> *5 11 GradeSchool Yes*
> *6 12 GradeSchool Yes*
> *7 16 HighSchool Yes*
> *8 17 HighSchool Yes*
> *9 18 College Yes*
> *10 19 College No*
> *11 20 College Yes*
>
> *above query would return:*
>
> *AgeRange Education AgeRangeCount CntOwns Proportion*
> *0: 4 PreSchool 1 0 0*
> *5: 9 GradeSchool 2 1 0.5*
> *10: 14 GradeSchool 3 2 0.67*
> *15: 19 College 2 1 0.5*
> *15: 19 HighSchool 2 2 1*
> *20: 24 College 1 1 1*
>
> *of course, you could right–mouse click on*
> *Proportion column in grid, choose Properties,*
> *then set Format to Percent and choose*
> *Decimal Places for precision you want to see.*
>
> *Please respond back if I have misunderstood*
> *or was not clear about something.*
>
> *Good luck,*
>
> *Gary Walter*
>
>
>