

## Newbie: Need advice with database manipulation decision

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Hello,

Firstly, I want to apologize if this question reaches the borders of "out of topic" but i think both the ado.net and the vb.net groups have a lot to do with it.

I created a small application that is supposed to manipulate meteorological and Air Quality data stored in an SQL Server Database.

So far I've created the first "view" which only shows station info and details. I did this using datasets, since the number of stations is quite small. I needed to relate a couple of tables so i used dataset.relations.add( ), and synchronized/binded the data to various controls. So far so good .

Now comes the harder part:

I need, \*after\* an involved query(ies) to get a whole bunch of data (e.g. 20,000 rows X 30 columns) and then perform mathematical/statistical operations on them. For example get a moving average. Also allow the user to save them in a text file to be imported later into Excel.

–OR–

Scan through all the data from a specific station and through Date/Time methods find out \*exactly\* how many actual \*calendar\* days are missing.

–ETC.–

>From what you see, there are *TWO* important points:

- 1) Quite a "big" number of data
- 2) Data will need to be manipulated through programming since SQL would not be enough (or too complicated)., therefore store the data locally.

Can you give me the keywords of the tools I should be looking into?

–Datareader VS Dataset

–Where should I store my data for easier manipulation? Multidimensional array?

–How can i export to Excel? or i have to save as text and then import to

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Excel?

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Any help/suggestions would be *\*greatly\** appreciated!

TIA

\_steve\_