Intro db vs spreadsheets

If you currently use a spreadsheet to store data, ask yourself the following questions:

* Do changes made in one spreadsheet force you to make changes in others?
* Is the sheer amount of data unmanageable or becoming unmanageable?
* Do you have several spreadsheets that contain related information (such as separate sheets with sales for branches in Los Angeles, Chicago, and Houston)?
* Can you see all relevant data on one screen, or do you have to keep scrolling to find information?
* Are several people accessing the data at the same time?
* Do you have a difficult time viewing specific data sets that you want?

If you answered yes to at least two of the questions, you should think about moving your information to a database application.

**In a Nutshell Use a database if...**

* the information is a large amount that would become unmanageable in spreadsheet form and is related to a particular subject.
* you want to maintain records for ongoing use.
* the information is subject to many changes (change of address, pricing changes, etc.).
* you want to generate reports based on the information.

**Use a spreadsheet if...**

* you want to crunch numbers and perform automatic calculations.
* you want to track a simple list of data.
* you want to easily create charts and graphs of your data.
* you want to create "What-if" scenarios.

In most cases, using the combination of a database to store your business records and a spreadsheet to analyze selected information works best.

getting data from the web into excel

cleaning data

analyzing data

visualizing data

reporting on real time data in Oracle database

list vs table

setting up database in excel

<https://www.youtube.com/watch?v=3cmyf6_gNyo>

exercise files : <http://officezones.blogspot.com/p/e.html>

data analytics: goal seek

<https://www.youtube.com/channel/UCtKur-a7YGtDjBRxe4jr9Rw>

<https://www.coursera.org/learn/data-cleaning>  
  
Using a spreadsheet to clean up a dataset  
<http://schoolofdata.org/handbook/recipes/cleaning-data-with-spreadsheets/>  
  
Normalization data tutorial  
  
Top ten ways to clean your data  
<https://support.office.com/en-us/article/Top-ten-ways-to-clean-your-data-a64879eb-115f-4e3d-a3bf-9cfc08a0a4e3>  
  
Google:clean data excel tutorial  
  
<https://people.highline.edu/mgirvin/AllClasses/214_2013/214/Busn214_2013.htm>  
  
<https://www.youtube.com/watch?v=WEXzWN_AXsc>