
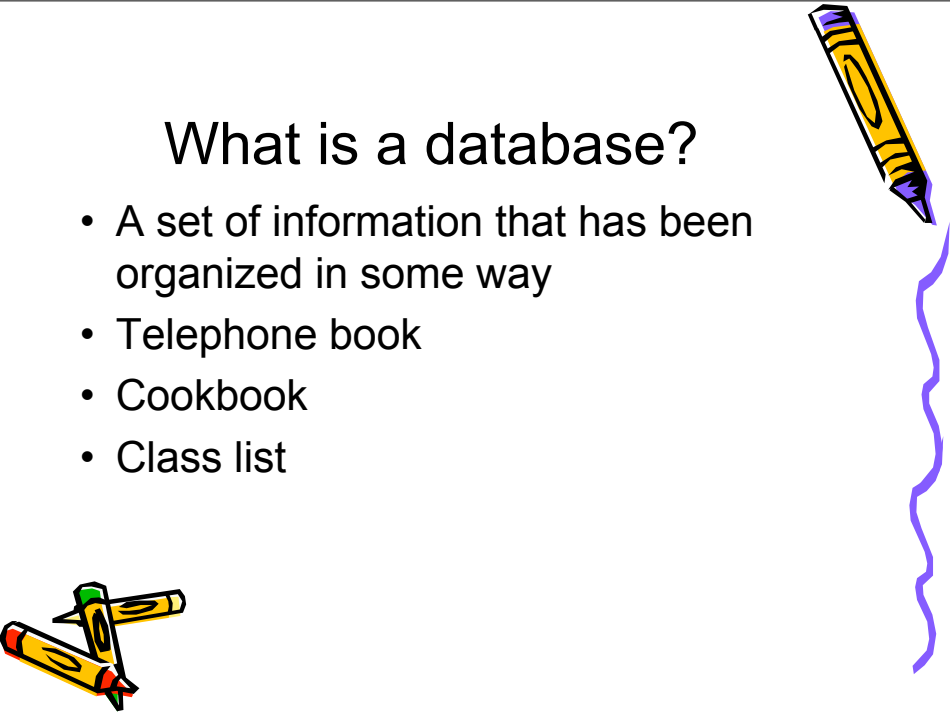


Databases and Kids



A Natural Match

Janet Caughlin
Janet-Caughlin@mac.com



What is a database?

- A set of information that has been organized in some way
- Telephone book
- Cookbook
- Class list

Why should kids learn about databases?

- The world is organized by databases
- Students search information sources
 - Internet
 - Encyclopedias on CD-ROM
- If they enter data and perform queries, they'll be better researchers



Why should kids learn about databases?

- Allows students to analyze data
 - See trends
 - See connections
 - Plan for the future



Should kids create databases?


- Primary level kids • **Maybe**
- Middle school kids • **Probably**
- High school kids • **Definitely**



Database Terms

- **Record** = All the information for one thing, e.g., 1 person

Student ID	1	Name	Jane	Doe
Address	234 Pine		Phone	359-2121
Parents	Bob & Mary Doe		<input type="checkbox"/>	Youngest/Only
Birthday	9-12	Gender	<input type="radio"/> Boy	<input checked="" type="radio"/> Girl
<input checked="" type="checkbox"/>	Meds in Office	<input checked="" type="checkbox"/>	Band	<input type="checkbox"/> Orchestra
<input type="checkbox"/>	Resource Room - Math	<input type="checkbox"/>	Counselor	
<input type="checkbox"/>	Resource Room - Reading	<input type="checkbox"/>	Speech	
<input type="checkbox"/>	Lunch Room Worker	<input checked="" type="checkbox"/>	Conflict Manager	



HOWARD
ELEMENTARY
Grade 6



Database Terms

- **Field** = Category, e.g., First Name or Address
- **Control** in Access

Field Name:	Field Type:
First Name	Text
Last Name	Text
Address	Text
Phone	Text
Parents	Text
Birthday	Text
Meds in Office	Checkbox

Field Name: Field Type:

Buttons: Create, Modify, Delete, Options..., Done

Help: Type a field name and select a field type.

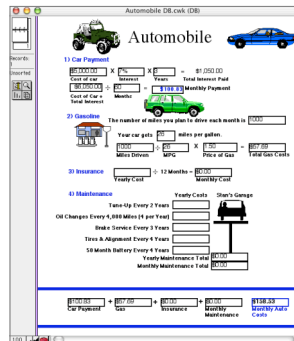
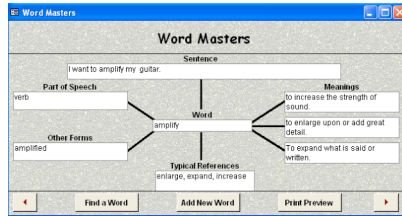
Database Terms

- **Table** = Looks like a spreadsheet or worksheet

Presidency #	President #	President	Birthplace	Political Party	Term	Vice-President
1	1	George Washington	VA	Federalist	1789-97	John Adams
2	2	John Adams	MA	Federalist	1797-1801	Thomas Jefferson
3	3	Thomas Jefferson	VA	Republican (Jeffersonian)	1801-04	Aaron Burr
4	3	Thomas Jefferson	VA	Republican (Jeffersonian)	1805-09	George Clinton
5	4	James Madison	VA	Republican (Jeffersonian)	1809-13	George Clinton
6	4	James Madison	VA	Republican (Jeffersonian)	1814-17	Elbridge Gerry
7	5	James Monroe	VA	Republican (Jeffersonian)	1817-20	Daniel D. Tompkins
8	5	James Monroe	VA	Republican (Jeffersonian)	1821-25	Daniel D. Tompkins
9	6	John Quincy Adams	MA	National Republican	1825-29	John C. Calhoun
10	7	Andrew Jackson	SC	Democratic	1829-32	John C. Calhoun
11	7	Andrew Jackson	SC	Republican	1833-37	Martin Van Buren
12	8	Martin Van Buren	NY	Democratic	1837-41	Richard M. Johnson
13	9	William Henry Harrison	VA	Whig	1841	John Tyler
14	10	John Tyler	VA	Whig	1841-45	none

Database Terms

- **Form** = Cool way to view or enter data
- **Layout** in AppleWorks



Database Terms

- **Query** = All the students named Jones

Student Info : Table						
	Student ID	Last Name	First Name	Address	City	State
▶	1111	Jones	Pat	168 Oak	Austin	TX
	1127	Jones	Arletta	1278 S 123 Ave	Austin	TX
*						TX

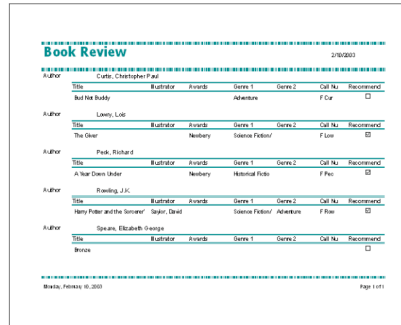


Database Terms

- **Report**

= Printout of records

- Can be all records
- Can be a query
- Can be a table



Author	Title	Publisher	Awards	Series 1	Series 2	Call No.	Recommend
Crutcher, Christopher P. et al.	But He Bled	Aladdin				F 6e	<input type="checkbox"/>
Lowy, Lori	The Deer	Nebury	Science Fiction			F 10e	<input type="checkbox"/>
Park, Robert	A War Over Under	Nebury	Historical Fict.			F 10e	<input type="checkbox"/>
Rowling, J.K.	Harry Potter and the Sorcerer's Stone	Aladdin				F 10e	<input type="checkbox"/>
Spears, Elizabeth	Braves						<input type="checkbox"/>



Database Programs You'll See Today

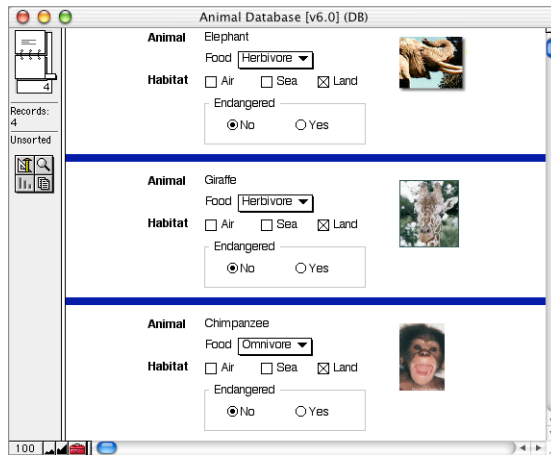
AppleWorks

Access

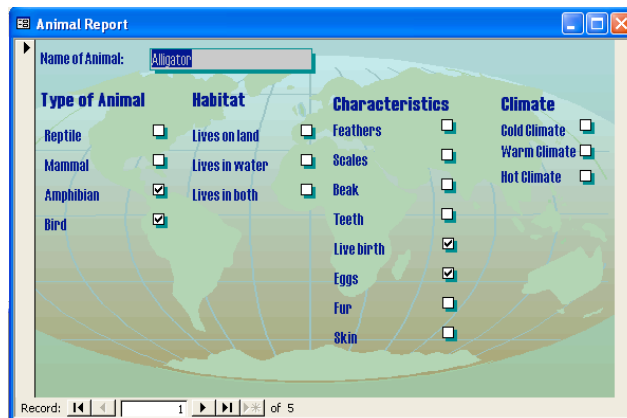
Excel



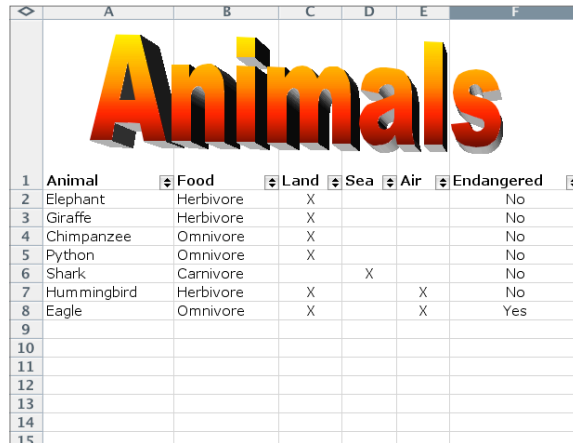
AppleWorks



Access



Excel



1	Animal	Food	Land	Sea	Air	Endangered
2	Elephant	Herbivore	X			No
3	Giraffe	Herbivore	X			No
4	Chimpanzee	Omnivore	X			No
5	Python	Omnivore	X			No
6	Shark	Carnivore		X		No
7	Hummingbird	Herbivore	X		X	No
8	Eagle	Omnivore	X		X	Yes
9						
10						
11						
12						
13						
14						
15						

