

# Application

The database, **States**, produced by each student has been combined by your instructor and placed on the Class Assignment Files as **States(unique number).CWK**. The file now contains the information to help all the students see similarities and differences. When you have completed this activity, write a paragraph explaining how you would create a similar database using your unit. This file will also contain your five questions.

**NOTE:** For those people who missed combining the **States** information, see Dr Burson immediately to be able you combine your data.

**Remember** throughout this exercise, there is only **ONE** database file.

Construct the following using **only** the **Pop-Up Tools**.



## 1. Producing a label report:

- The label you produced in the guided activity was for use on an envelope. However, labels can be used to identify a historical figure, a character from a novel, a geographical location, etc.
- In this case,, assume everyone in class will represent a state and you are in charge of making name tags.
- **Remember:** A layout is nothing more than a filter in the draw environment that looks at specified fields in each record.

- Create a layout (**Layout Pop-up**) and name it, **NAMETAG**.



- Place two fields in your label layout (**state name** field and another field of your choice).
- At the top of the label, add the text, "**My state is**" in an appropriate font and size.
- Decorate the name tag with a colored background and a colored border. Make sure the field background matches the label's background. Change the font color to other than black.



**DO NOT** copy this sample.

- **Remember:** You are working with the entire database.

## 2. Producing a Columnar Report layout.

A **columnar report layout** is an arrangement of fields, field names, and possible objects in columns.

- Create two different columnar report layouts:
  - One called **Symbol Search** should contain the state name and the symbol field names.
  - The other called **Comparing** should contain at least state name, entered union, area, and population.
  - Add your choice of other field names if desired.
  - DO NOT have field wrapping to a second line (difficult to read)

- Expand the header area of the columnar report (**Layout-Layout and pull down the line**) and add **Symbol Search** and **Comparing My State** as a title in an interesting font; position the field names just above each column; and add a clipping. Color all text in the header.
- Samples:

**COMPARING INFORMATION ABOUT STATES**

State name	Nickname	Entered US	Area sq. mi.	Elevation
Maine	The Pine Tree State	1820	35387	1274923
Alabama	Yellowhammer State	1819	52423	4447100

DO NOT copy these

**COMPARISON OF STATE SYMBOLS**

State name	Flower	Bird	Tree	Insect	Gemstone
Maine	White Pine Cone	Chickadee	White Pine	Honeybee	Tourmaline
Alabama	Carnelia	Yellowhammer	Southern Longleaf Pine	Monarch Butterfly	Star Blue Quartz

### 3. Establish different orders by creating 5 sorts (Sort Pop-up).



- Create a sort (**Sort Pop-up**) of State Name in ascending sequence and name it, **State Alpha**.
- Create 2 multilevel sort (when the major field repeats the minor field is ordered).
  - Create a sort where **Region in US** (major) is ascending and **State Name** (minor) is ascending. Name it **State W/in Region**.
  - Create a sort where **Region in US** (major) is ascending and **Entered Union** (minor) is ascending. Name it **Entered W/in Region**.
- Create two more sorts on field of your choosing (support your searches).

### 4. Using questions to analyze data

(Search - most powerful aspect of database).



- **Questions:**
  - How many states are in your region? Call it **States in your Region**.
  - When did the states in your region enter the union? Call it **Entered Union**.
  - Do other states have the same bird? Call it **Same Bird as Mine**.
  - Do other states have the same flower? Call it **Same flower as Mine**.
  - Which states have state insects. (Hint: all those that are not none) Call it **State Insect**.
  - Which states have more people than your states? Call it **More People**.
  - Which states are smaller in sq. miles than your states? Call it **Smaller States**.
- Pick three of the preceding questions to answer.
- Create two questions of your own to answer and name them **appropriately**. At least one question should have two criteria.



4. Combining **Layouts**, **Sorts**, and **Searches** into a **Report**.
  - A **Report** is made up of a format (**Layout**), a question (**Search**), and an order (**sort**). Some of these may be **none**. **Reports** are a method of combining the other three structures.
  - Combine the **Layouts**, **Sorts**, and **Searches** you have created to answer the expanded questions below plus the one you have produced.
  - **Expanded Questions:**
    - **List the states in your region in a specific sequence.** Call the report **Region**.
    - **When did the states in your region enter the union? List the most current one first.** Call the report **Entered Union**.
    - **List the states in alphabetical order that have the same bird as your state.** Call the report **Same Bird**.
    - **List the states in alphabetical order that have the same flower as your state.** Call the report **Same Flower**.
    - **List the states in alphabetical order that have a state insect.** Call the report **State Insect**.
    - **List the states by region that have more people than your state.** Call the report **More People**.
    - **List the states by region that are smaller in sq. miles than your state.** Call the report **Smaller States**.
  - Place your choices of these questions and the two questions you created in your text file (see below).
5. Write a short paragraph in a separate AppleWorks word processing document with a **numbered list** of the questions you chose for the searches plus the question you created. Add an additional paragraph explaining how you would create a lesson in your unit using the same method as the states database. Use proper word processing techniques (ie. "hang" numbers). Name the file **TEXT.CWK**.
6. Post your Reflection to TeachNet. Post a reply to the posted topic **Using a Database for Critical-thinking**. Show that you have read Chapter 11 in your reflective writing. **This module is not complete nor will on time credit be given until this is accomplished.**

**NOTE 1:** Layouts and reports are functional parts of the database. You should have only **ONE** database file, **States(unique number).CWK**.

**NOTE 2:** Reports are a combination of the layout used, the records found (search), and the sorted order.