The way I'm understanding dictionaries is that they are for storing information this can be numerical string or Boolean. An example I'm thinking of that would make good use of a Python dictionary is:

Linking employee names to a unique employee number and using that to manipulate and store all the information that continually changes for each employee.

Each employee would be given a unique employee number Possibly randomly created? This would be the key. stored and matched to that key would be their name, Social Security number, home address, pay rate, hire date, exemptions claimed, auto-deposit information. These items could be changed, except the key would never change. Weekly hours worked could be entered and the program would access the dictionary to manipulate the data to create paychecks and reports.