For each of the following questions, implement a function that returns the answer to the question. For each question, follow this procedure:

1. Identify a good name for the function.
2. Identify the return value.
3. Identify any necessary parameters.
4. Write the function definition.
5. Write the function's docstring.
6. Describe, on paper, in words, or in your head, the algorithm you'll use to solve the problem.
7. Implement the function.

Effective programmers perform these steps for every program they write, and they solve them very quickly. Ineffective programmers often make the mistake of mixing steps 6 and 7, either skipping step 6 or performing 6 and 7
simultaneously. As mentioned in lecture, the most effective programmers start coding later, and finish earlier. This is because they understood the problem and its solution before every writing code.

You may assume that every function takes as a parameter a data structure with the same structure as the following.
[
\{'Company': 'Apple', 'Date': '01 Jan 2010', 'Purpose': 'payroll', 'Cost': 95\},
\{'Company': 'Microsoft', 'Date': '01 Feb 2010', 'Purpose': 'payroll', 'Cost': 1000\},
\{'Company': 'Microsoft', 'Date': '16 June 2010', 'Purpose': 'philanthropy', 'Cost': 250\},
\{'Company': 'Google', 'Date': '11 Dec 2010', 'Purpose': 'legal', 'Cost': 110\},
\{'Company': 'Apple', 'Date': '30 Aug 2010', 'Purpose': 'building renovations', 'Cost': 10000\},
\{'Company': 'Google', 'Date': '29 Dec 2010', 'Purpose': 'equipment', 'Cost': 25\},
\{'Company': 'Microsoft', 'Date': '01 Feb 2010', 'Purpose': 'payroll', 'Cost': 1000\},
\{'Company': 'Oracle', 'Date': '01 Jan 2010', 'Purpose': 'payroll', 'Cost': 30\},
... More rows, with more companies, dates, purposes, and costs ...
]
You are allowed to use the solutions from previous problems to solve later problems.

1. For a given company, how much did that company spend in total?
2. For a given company, how much did that company spend on payroll?
3. What are all the companies that made expenditures?
4. Which company spent the least in total?
5. What are the evil companies, if any, that didn't have any payroll expenditures (and so clearly aren't paying their employees). When you've finished this function, do a Google search on "google motto".
