Below is employee data of a small company.

It represents the hierarchical relationship among employees. CEO of the company doesn't have a manager.

|  |  |  |
| --- | --- | --- |
| **Employee Name** | **id** | **Manager id** |
| Alan | 100 | 150 |
| Martin | 220 | 100 |
| Jamie | 150 |  |
| Alex | 275 | 100 |
| Steve | 400 | 150 |
| David | 190 | 400 |

Design a suitable representation of this data. Feel free to choose any database (RDBMS, inmemory database etc), file system or even a data structure like List or Map. Then write code (in any language and framework) that displays the organisation hierarchy as below:

|  |  |  |
| --- | --- | --- |
| Jamie |  |  |
|  | Alan |  |
|  |  | Matin |
|  |  | Alex |
|  | Steve |  |
|  |  | David |

The result can be simply displayed on the console, or HTML page or even a file; whatever suits you.

Try to cover all the possible scenarios, for example an employee with no manager, a manager who is not valid employee; etc.

Pay more attention on writing the actual logic of representing the employee tabular data into the hierarchical format.