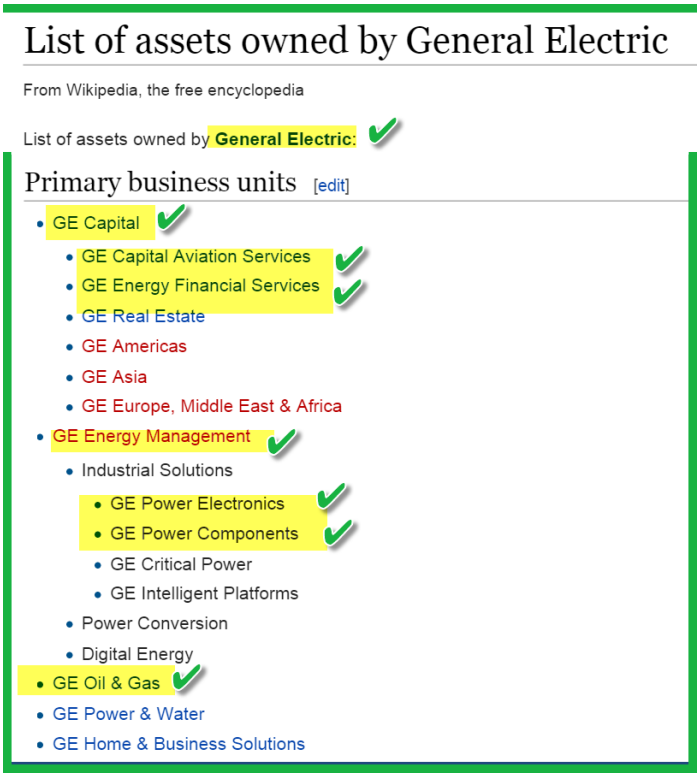
# Week 4 Hands on Lab – Self-JOINs

These ungraded hands-on-lab will help you build your skills working with self-joins.

Your task is to take the highlighted information in the image below, and create a single SQL table that models the relationships between the highlighted business entities. You should populate the table with the highlighted rows, then write a SELECT statement that displays a result set that shows each business entity and its immediate parent.



List of assets owned by General Electric

From Wikipedia, the free encyclopedia

List of assets owned by **General Electric**:

Primary business units [edit]

- GE Capital
  - GE Capital Aviation Services
  - GE Energy Financial Services
  - GE Real Estate
  - GE Americas
  - GE Asia
  - GE Europe, Middle East & Africa
- GE Energy Management
  - Industrial Solutions
    - GE Power Electronics
    - GE Power Components
    - GE Critical Power
    - GE Intelligent Platforms
  - Power Conversion
  - Digital Energy
- GE Oil & Gas
- GE Power & Water
- GE Home & Business Solutions

Source: http://en.wikipedia.org/wiki/List_of_assets_owned_by_General_Electric

Here is one possible resultset (other answers could be reasonable, or even better, depending on intended purpose):

| | parent<br>character varying | subsidiary<br>character varying |
|---|---|---|
| 1 | GE Capital | GE Capital Aviation Services |
| 2 | GE Capital | GE Energy Financial Services |
| 3 | GE Energy Management | GE Power Components |
| 4 | GE Energy Management | GE Power Electronics |
| 5 | General Electric | GE Capital |
| 6 | General Electric | GE Energy Management |
| 7 | General Electric | GE Oil and Gas |

To consider:

- How many levels deep is it possible to "nest" data?
- Can you think of other "use cases" for organizing data hierarchically?
- Are there other choices besides SQL Server for modeling hierarchical data?