Energy Experts

Mid-Semester Project Presentation



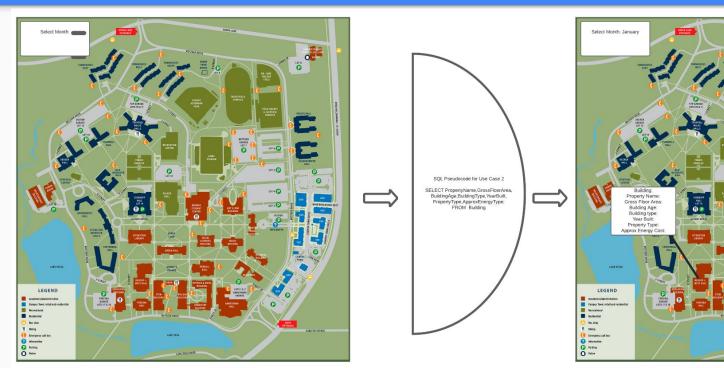
Zane Mrazek, Thomas Camilli, Julianna Iannini, Melissa Duff, Michael Wertz, Tj Cilvick, Matthew Volpe

Progress

- Revised specifications based on feedback
- Designed multiple iterations for the relational schema
- Continuously updated GitHub repository as progress was made
- Designed Entity Relationship (ER) Diagram for the data we want to use
- Created Mid-Semester Project Report

Use Case #1: Select Month

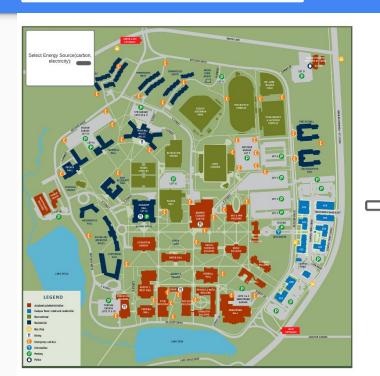
Determine the approximate cost of energy for a campus building in a chosen month.

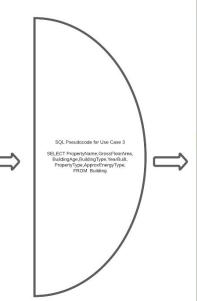




Use Case #2: Select Energy Source

Determine the approximate cost of energy for a campus building given a chosen energy source.







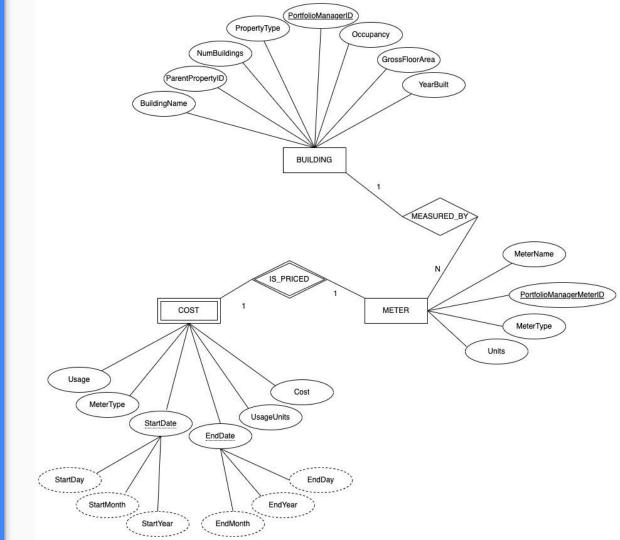
Entity Relationship (ER) Diagram

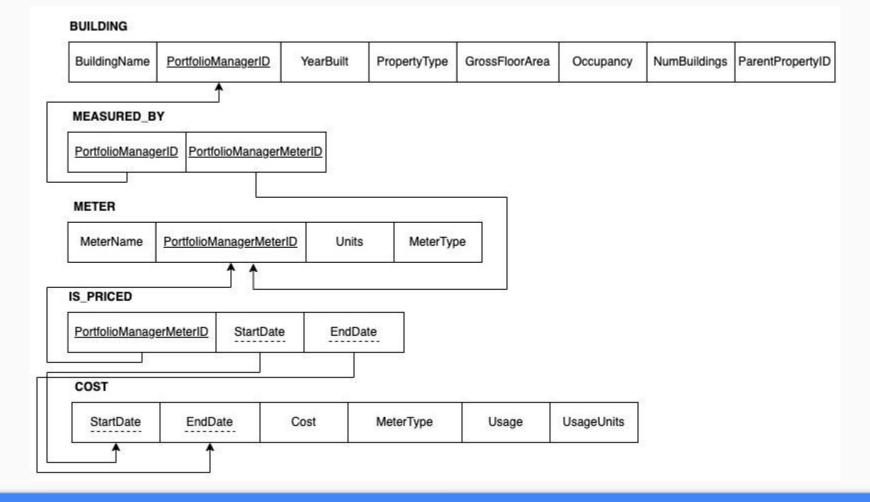
Three entities:

- Building
- Meter
- Cost

Two relations:

- Measured_by
- Is_priced





Initial Database Statistics

Initial Database Size:

Monthly data from 6 electric meters 15 natural gas meters from 07/2014 - 02/202 yields about 1470 rows.

21 meters yields 21 rows.

47 buildings yields 47 rows.

Total: about 1538 rows.

Types of Searches:

Search for: building specifications, energy types, monthly cost, & yearly cost.

Average Number of Searches:

Comparing limited number of buildings based on type, one query for each building. Could be about 10 searches.