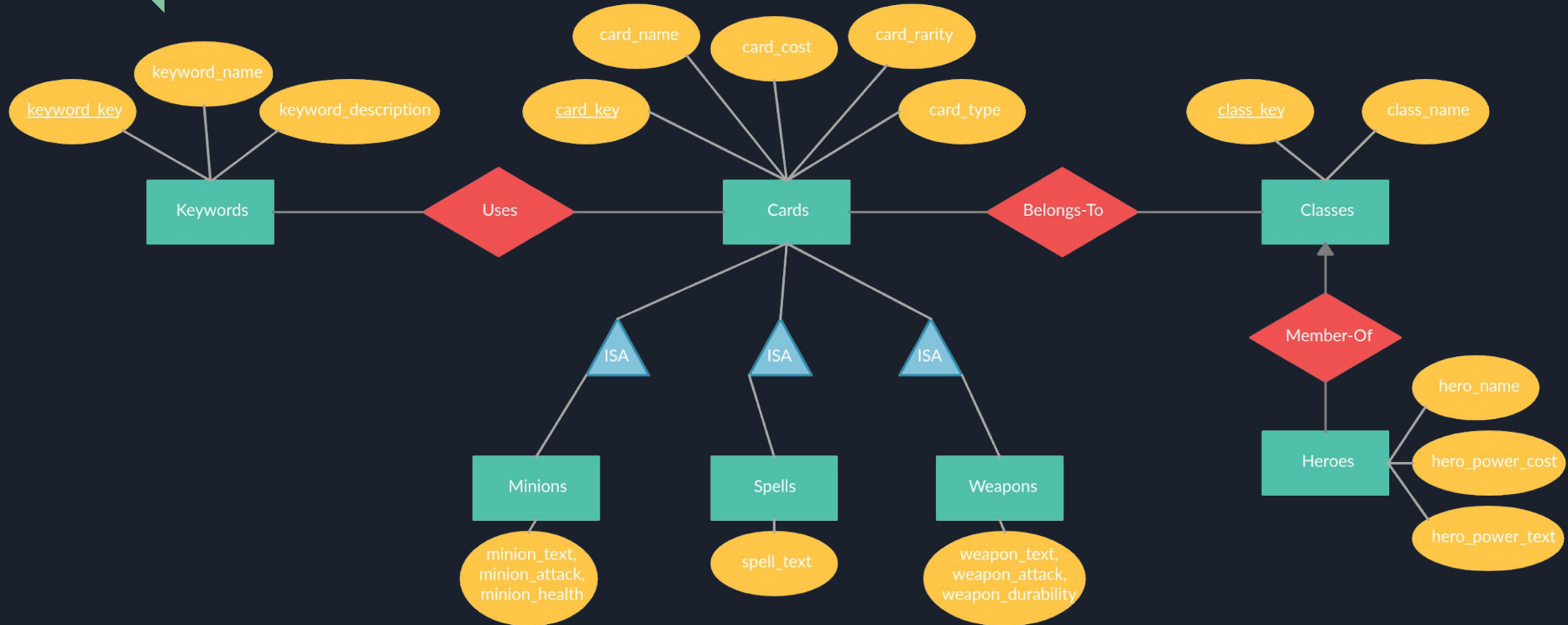# Hearthstone Database App

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What is it?

Interactive command-line based application that utilizes the Hearthstone database
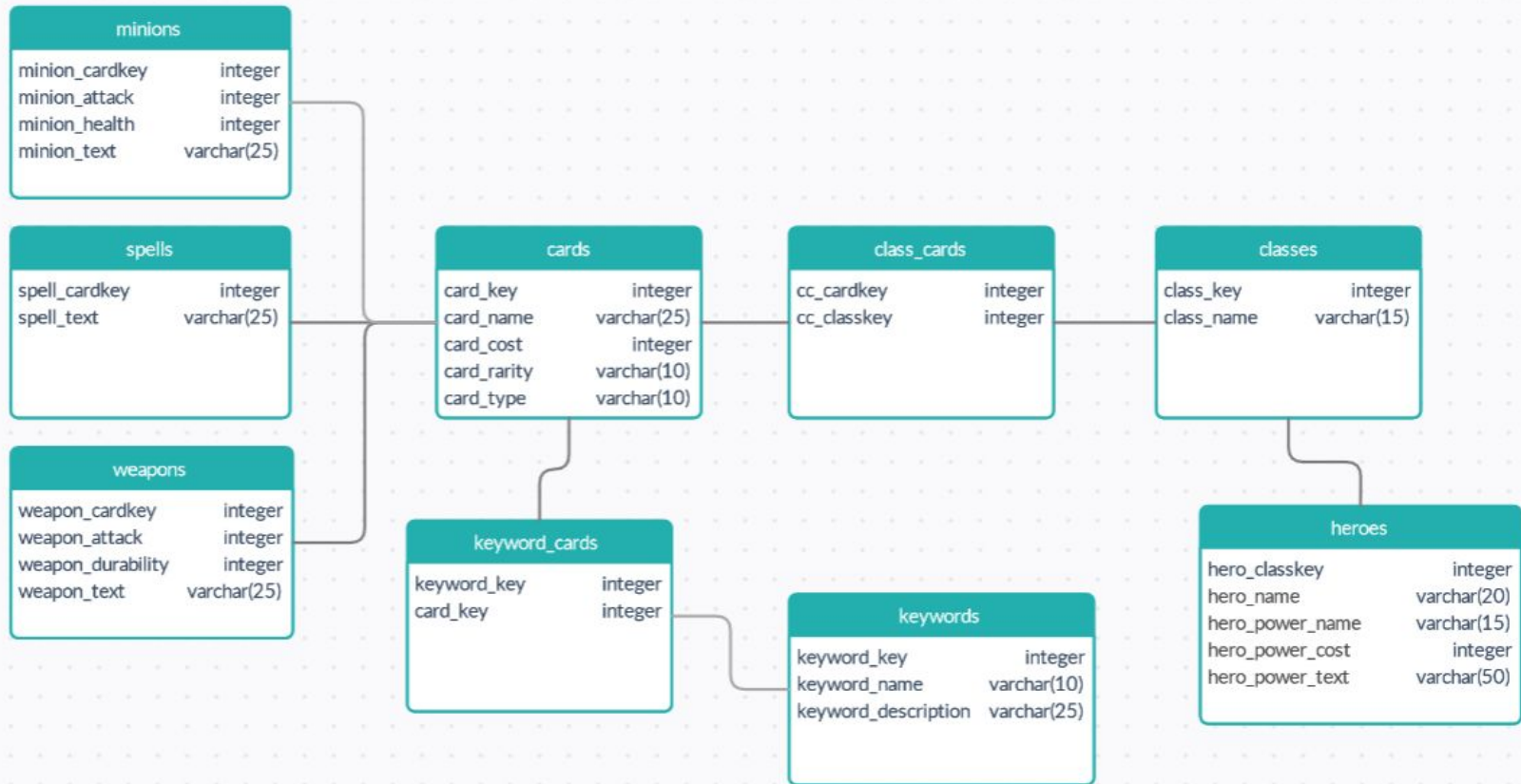
Use-Cases:

- Search for cards based on various attributes
- Construct/manage decks
  - Manually
  - Randomly Generated
- Import/Export decks
- View Deck statistics
  - Mana curve
  - Card types count
  - Hero details

E/R Diagram

Relational Schema

Implementation

- Manually entered data to CSV files
  - CSV files help populate the necessary tables to run the application
- Python application
  - Command-line user interface
  - Used sqlite and Pandas to build the database
    - 4 Primary python files
      - Main.py
        - Will load the database and run the application
      - HSDB.py
        - Manages the database queries
      - App.py
        - Primarily focuses on the UI and user interaction
      - Deck.py
        - Manages data stored in decks
    - Data folder
      - Holds the csv files used to populate the database
      - Contains files used to import/export decks
      - hs.sqlite

Demo

Github: https://github.com/echao12/CSE111-Database