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CS 340 Database Project Proposal: 2016 U.S. Presidential Nomination Process

Due: 04/10/2016

Mini-World

Our project proposal is to create a database that tracks political data related to the U.S. Presidential nomination process during 2016.

Entities

- **state**: *state_id, name, abbr*
- **event**: *event_id, date*
- **candidate**: *candidate_id, first_name, last_name, party*
- **party**: *party_id, name*
- **contest_type**: *contest_type_id, name*

Relationships

- **state** has a **1:N** relationship with **event (**each state can have multiple events where delegates are allocated to candidates)
    - **event** and **state** both have total participation
- **event** has an **N:M** relationship with **candidate**
    - **candidate** has total participation, while **event** has partial participation due to write-in votes and uncommitted delegates which are not tied to a **candidate**
    - **contest_candidate**: a table between contests and candidates which handles the N:M relationship and has a few of its own attributes: *contest_candidate_id, vote_count, delegate_count*
- **event** has an **N:1** relationship with **contest_type** (each contest will be a associated with a single type of event like a caucus or a primary)
    - **event** and **contest_type** both have total participation
- **event** has an N:1 relationship with **party** (each contest is for 1 political party)
    - **event** and **party** both have total participation
- **candidate** has an N:1 relationship with **party** (each candidate is associated with 1 party, but each party can have N candidates)
    - **candidate** and **party** both have total participation