Team Ozymandias Brown2Green

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Brown2Green: An Overview

- Provides Habitat and general users an effective line of communication with:
    - political figures
    - experts in the field
    - health/environmental orgs
    - environmental committees

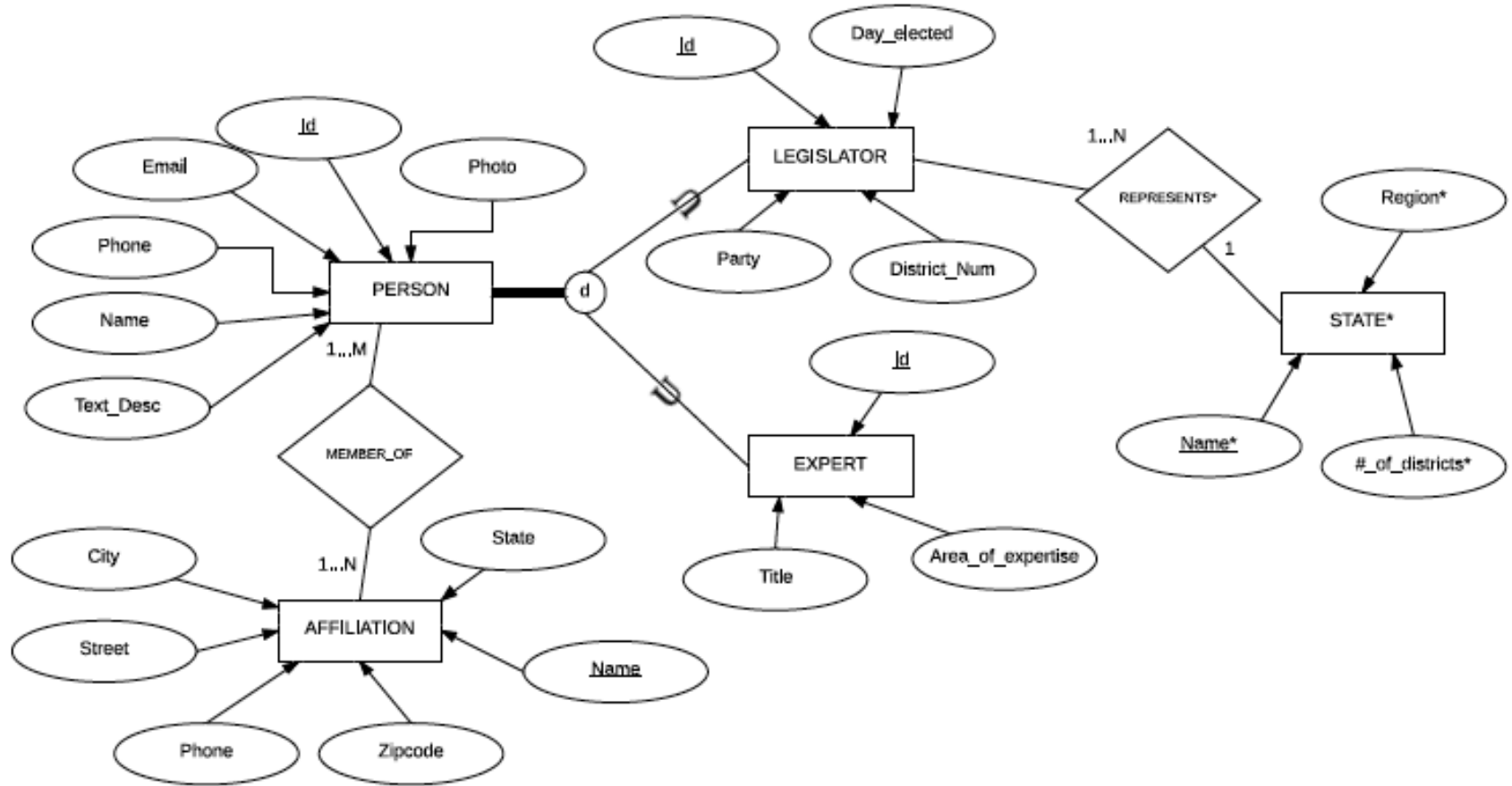- Contact information makes analyzing specific brownfields an easier task
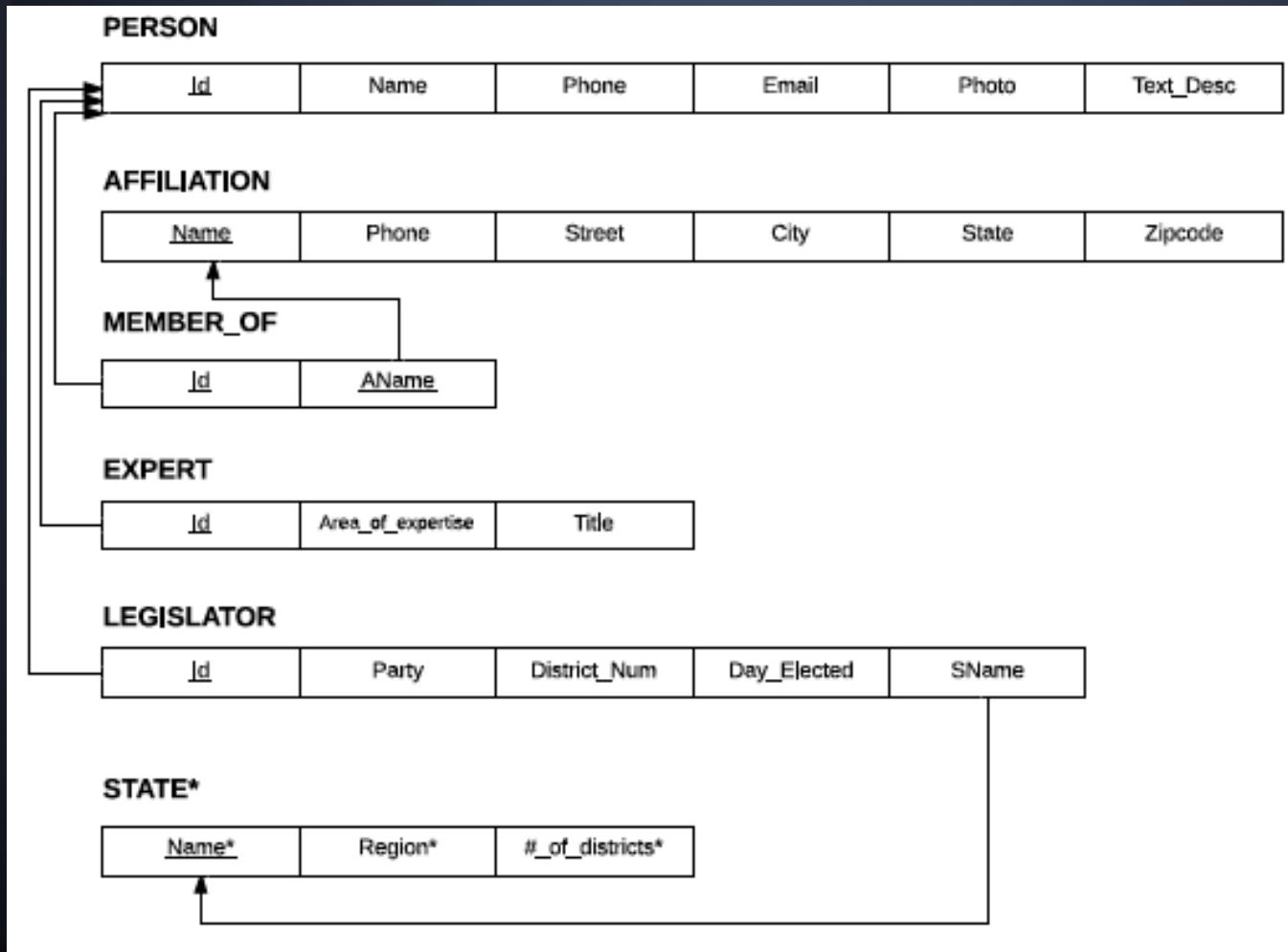
New Data

- Congressperson → Person
    - Legislators (state, federal)
    - Experts (journalists, professors, etc.)

- Affiliations
(organizations, committees, etc.)

ER Diagram

Relational Schema

PERSON

Id	Name	Phone	Email	Photo	Text_Desc

AFFILIATION

Name	Phone	Street	City	State	Zipcode

MEMBER_OF

Id	AName

EXPERT

Id	Area_of_expertise	Title

LEGISLATOR

Id	Party	District_Num	Day_Elected	SName

STATE*

Name*	Region*	#_of_districts*

Example Queries

List professors at TCNJ who are knowledgeable about environmental science
SELECT *
FROM expert as e, person as p, affiliation as a, member_of as m
WHERE p.id = m.id
AND a.name = m.aname
AND a.name = 'TCNJ'
AND e.id = p.id
AND (e.area_of_expertise ='Green Chemistry' OR e.area_of_expertise = 'Environmental Sociology');

List employees of NJDEP
SELECT name
FROM person AS p, member_of AS m
WHERE p.id = m.id
AND m.aname = 'NJDEP';

List everyone connected to environmental health
SELECT name
FROM person AS p, member_of AS m, expert AS e
WHERE p.id = m.id
AND m.id = e.id
AND m.aname LIKE '%Environment%';

Interesting Aspects

- Ability to see both experts and legislators with their respective affiliations

- Makes contacting these people easier with a full list of various avenues to reach them

Demo

Overcoming Challenges

- Integrating our project into the existing system
- Missing data/relations in SOAP infrastructure
    - No State relation
- Acquiring information to populate the database
- Collaboration with journalism class
- CakePHP difficulties
- Learning PostgreSQL

Insights Gained

- GOOD COMMUNICATION = SUCCESS
- Deeper understanding of design process
- Integration of database with PHP
- Lots of things to consider when designing a database
- Good design makes implementation easy
- Time management is crucial
- Overall, a success

Questions?