

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

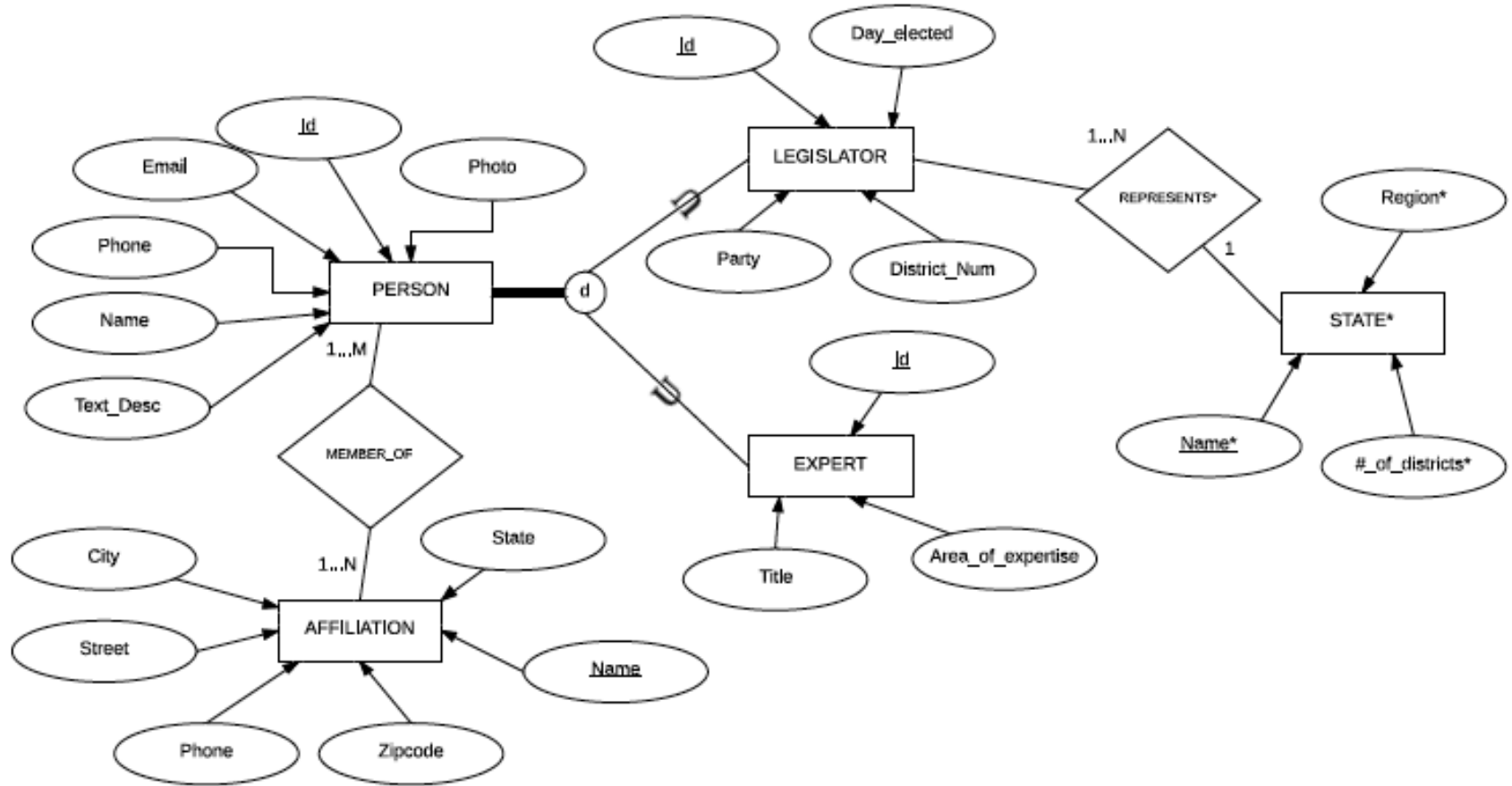


New Data

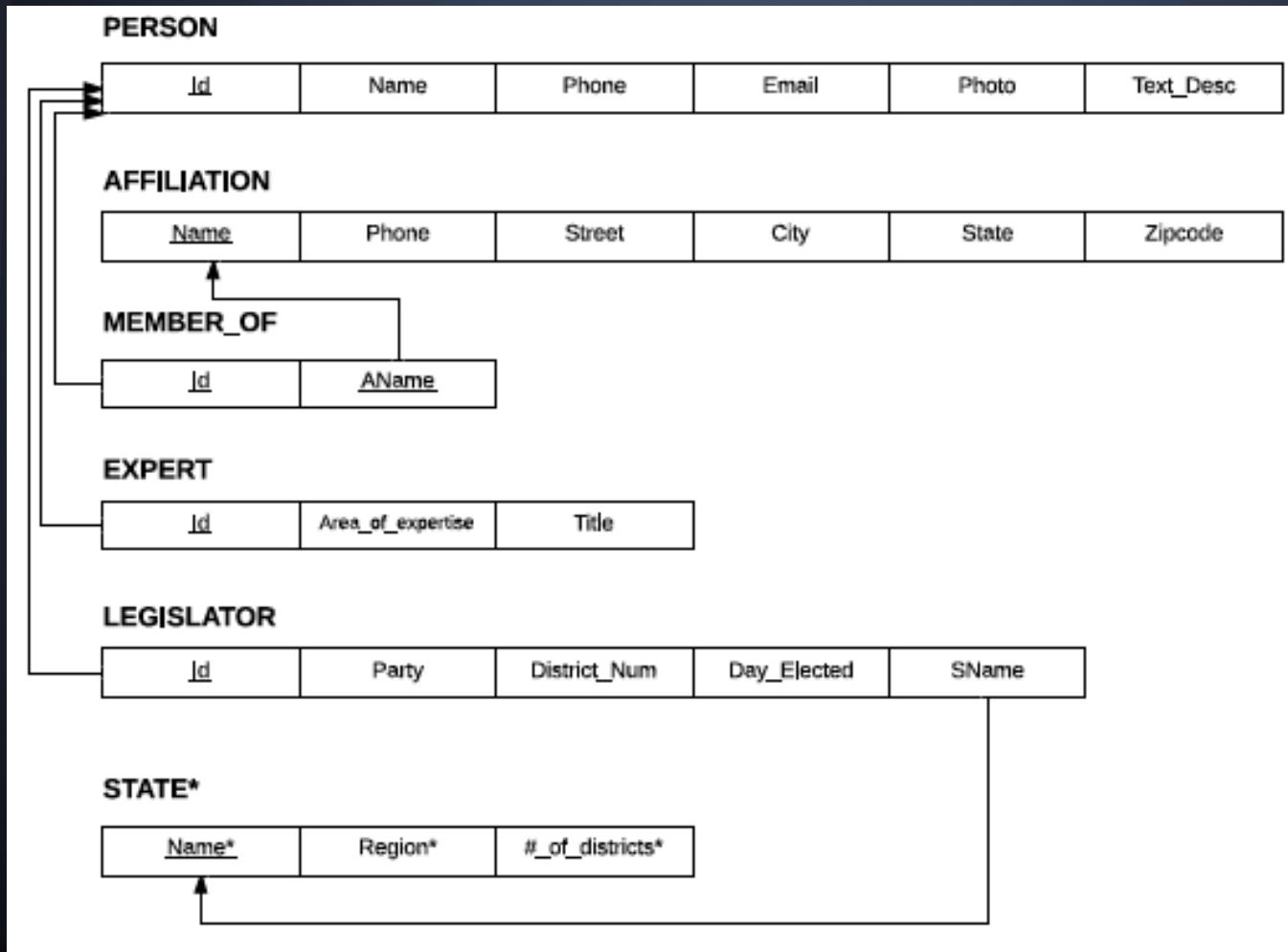
- Congressperson → Person
 - Legislators (state, federal)
 - Experts (journalists, professors, etc.)
- Affiliations
(organizations, committees, etc.)



ER Diagram



Relational Schema



Example Queries

List employees of NJDEP

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

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 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 existing system
- Missing data/relations in SOAP infrastructure
 - No State relation
- Server not functional until Monday afternoon
- Acquiring info to populate the database
- Collaboration with journalism class
- PHP learning/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

Questions?

