

## CS4.301 Data and Applications Project Phase 2

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Team Number 53

### Changes/Additions/Minor Modifications:

#### Additions:

The 13th member of the Illuminati was missed (it does not change the design of the database). It is with real-life identity unknown(always wears a Death-eater mask), title 'Lily Patronus/Dementor'.

Addition of new Relationship *Curates and Maintains*: [this is instead of the attribute Curator in Secret Knowledge Archives(since References are shown through Relationships in an ER Diagram )

- **Entities:** Key Illuminati Members, Secret Knowledge Archives
- **Description:** Key illuminati members curate and maintain the secret Knowledge Archives
- **Cardinality and Participation Constraints:**
  - Participation Constraints: (0,N) for members, (1,1) for Archives
  - Cardinality Ratio: N:1

Addition of a new Relationship *Surveys*:

- **Entities:** Key Illuminati Members, Surveillance
- **Description:** Members survey individuals and organizations under surveillance.
- **Cardinality and Participation Constraints:**
  - Participation Constraints: (0,N) for members, (0,N) for Surveillance
  - Cardinality Ratio: N:N

#### Changes:

The subclass *Individuals* of entity *Surveillance*: Attribute **Nationality: Text** instead of Country

The relationship *Orchestrates*: Participation Constraints: **(1,N)** for Members

Addition of attribute **Surveillance ID, Primary Key, Text** to entity *Surveillance*. This is an artificial key.

In the entity Faction Members, attribute Name is a **composite (Fname, Mname, Lname)**.

In the entity Faction Meetings, attribute Location is **composite (Street, City, Country)**.

#### The ER Diagram

Link : Draw.io link

