Binary data

- BLOB: \((2^{16})-1\) bytes
- MEDIUMBLOB: \((2^{24})-1\) bytes
- LONGBLOB: \((2^{32})-1\) bytes

```
mysql> CREATE TABLE BinDataTable
       (FileID INT NOT NULL AUTO_INCREMENT,
        FileName VARBINARY(200),
        FileData MEDIUMBLOB,
        PRIMARY KEY (FileID)
       ) ENGINE=InnoDB;
```

```
mysql> INSERT INTO BinDataTable VALUES
       (null,'P1.odt',
        LOAD_FILE('/home/chadd/cs445Data/P1.odt'));
```
Translation:

E-R diagram to MySQL
Entities

- An entity that is not involved in a relationship with constraints can be directly translated to a table.
Relationships (w/o constraints)

- Relationships w/o constraints can be translated directly into a table.
- Need to add FOREIGN KEY constraints
Relationships w/contraints

- In the diagram below, what uniquely IDs entries in Read?
Relationships w/ constraints