HW1 Part 1

ER Diagram for Digital Library

Since ER doesn't usually have classes am modelling w/ Weak Entities

ITEM

BLOG ITEM
Thread

MOVIE
Special Features

PRINTED
Language

DOCUMENT
Form \\

ARTICLE
ejournal, page

EBOOK
Edition

LEGAL ITEM

MUSIC

SONG

Artist

PLAYLIST

NAME

AGENT

Name

GROUP

MEETS

LEVEL

HAS

A
Computing Tables from ER Diagram

1. Map Entities to Tables

**ITEM**
- ID
- Title
- Viewer
- Date

**PLAYLIST**
- Name

**AGENT**
- Name
- Group

**ACCESS_TYPE**
- LEVEL

2. Map Weak Entities

**BLOG_ITEM**
- ID
- Thread

**MOVIE**
- ID
- Director
- Special
- Language

**PRINTITEM**
- ID
- Author

**SONG**
- ID
- Artist
- Album

**TAX_DOC**
- ID
- Author
- Form#

**ARTICLE**
- ID
- Author
- Journal

**EBOOK**
- ID
- Author
- Edition

**LEGAL_DOC**
- ID
- Author
3. Map Relationships

Add Foreign Keys for 1:1 and 1:N Relationships

Create New Tables for N:M Relationships

AGENT now becomes:

<table>
<thead>
<tr>
<th>Name</th>
<th>Group</th>
<th>Level</th>
</tr>
</thead>
</table>

Similarly, ITEM becomes:

<table>
<thead>
<tr>
<th>ID</th>
<th>Title</th>
<th>Viewer</th>
<th>Date</th>
<th>Level</th>
</tr>
</thead>
</table>

Remaining Relationships:

BELONGS_TO

<table>
<thead>
<tr>
<th>SONG-ID</th>
<th>Playlist_Name</th>
</tr>
</thead>
</table>

OWNS

<table>
<thead>
<tr>
<th>ID</th>
<th>Name</th>
</tr>
</thead>
</table>

References:

SONG

References:

ITEM

References:

AGENT

AGENT_PLAYLIST

<table>
<thead>
<tr>
<th>Agent_Name</th>
<th>Playlist_Name</th>
</tr>
</thead>
</table>