

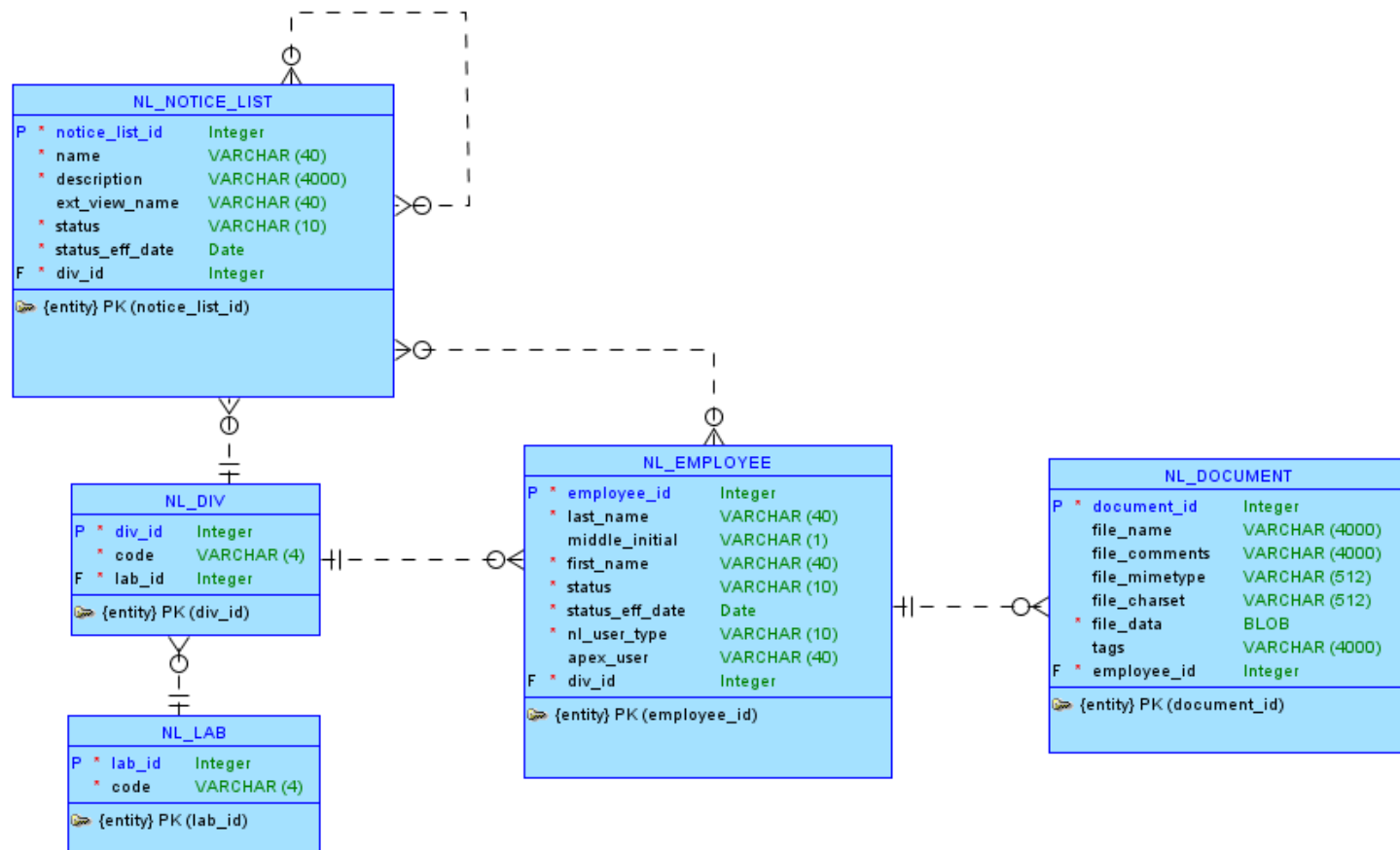
ARL Notice List Project

CS347 Final Presentation

Steven Ritchie, Andrew Nguyen

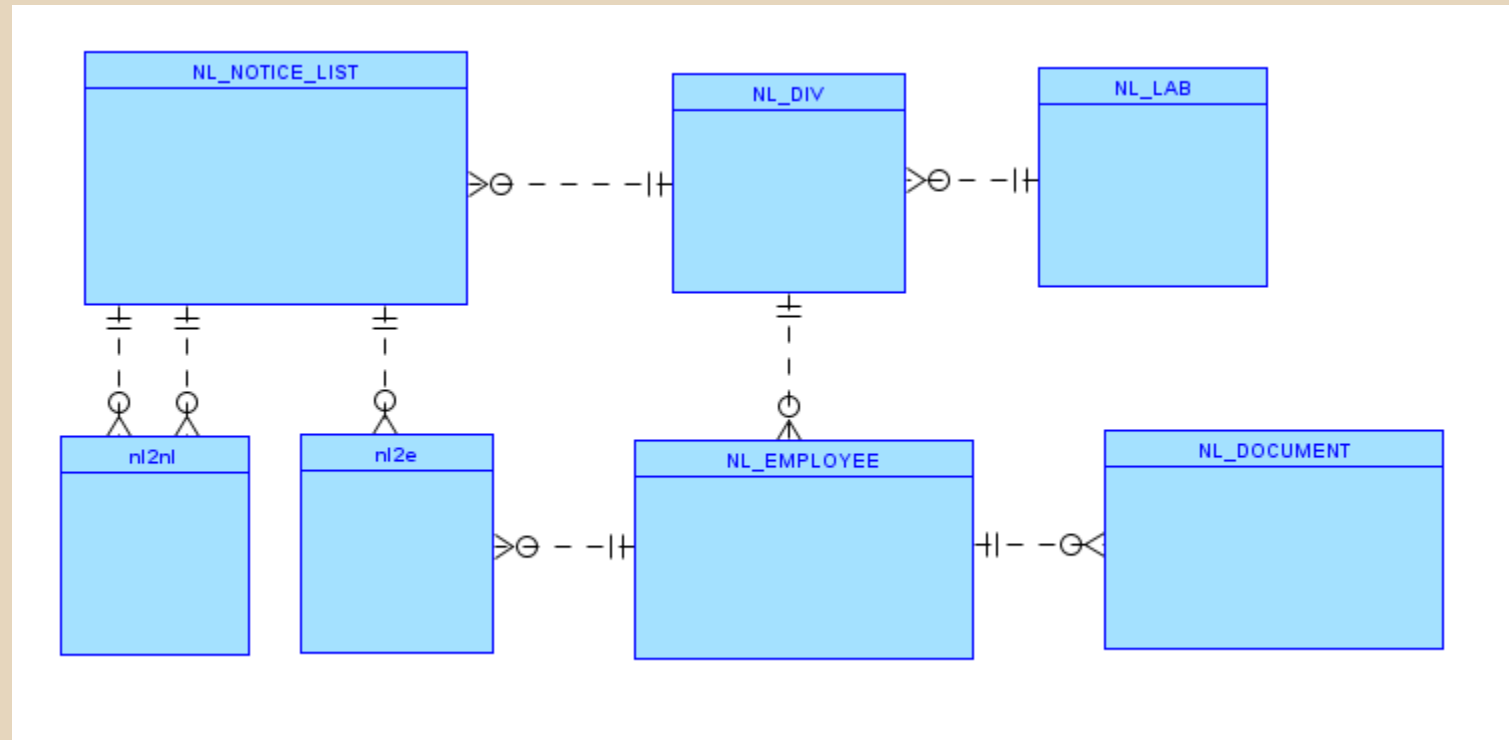
Conceptual Model

- NL_EMPLOYEE, NL_DIV, NL_LAB are read-only tables



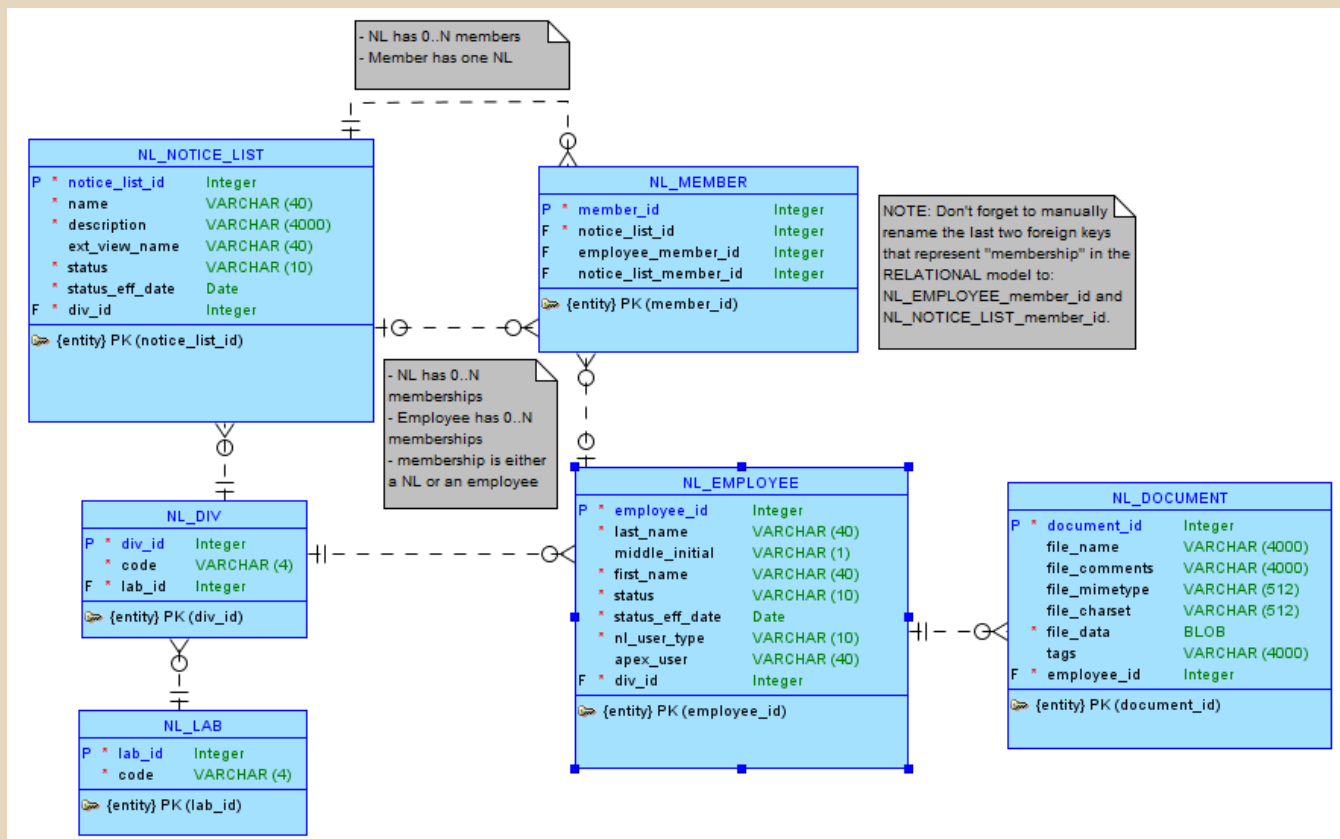
Logical Model (Intermediate)

- Convert the two M:N relationships into two junction tables

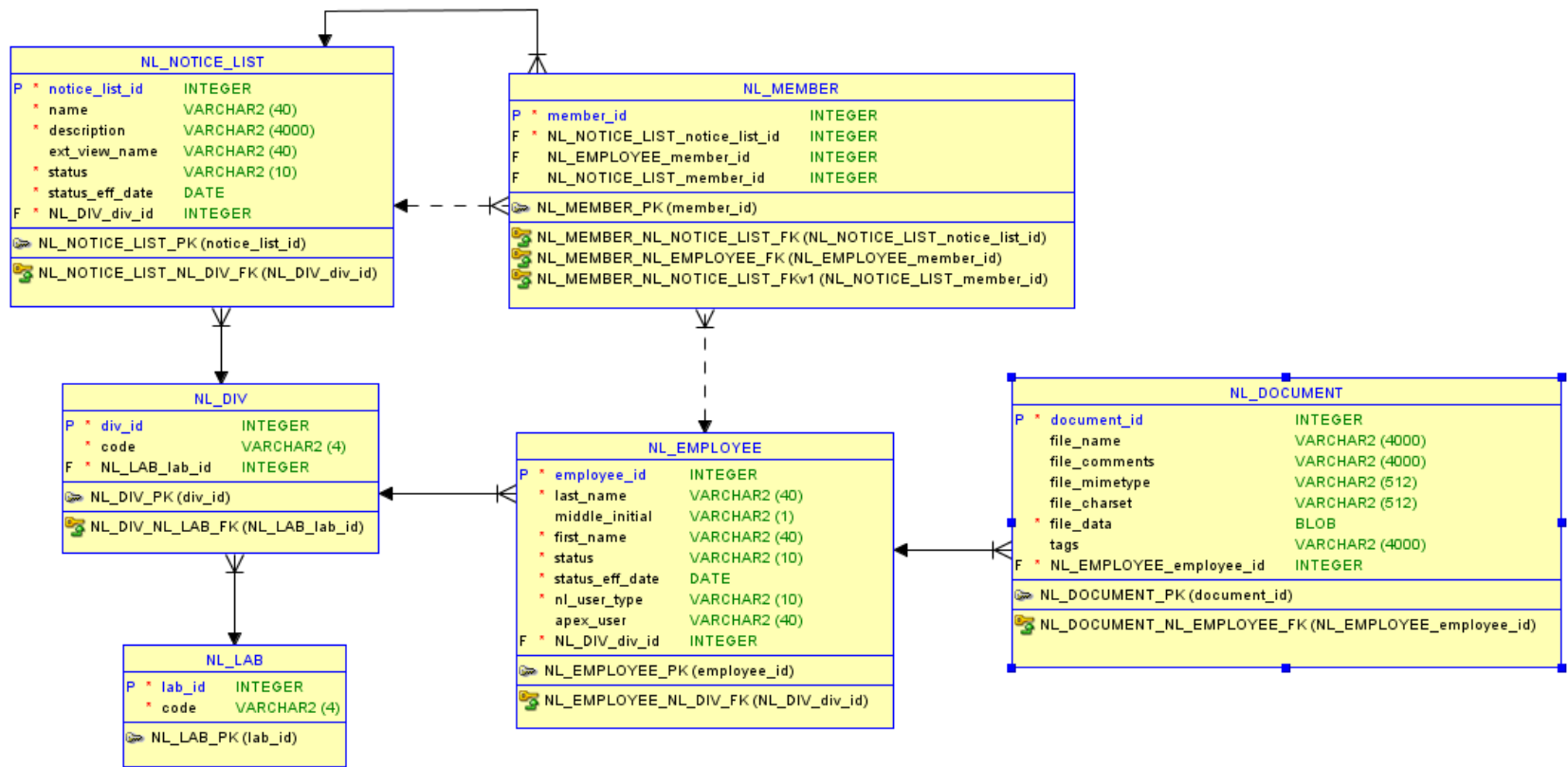


Logical Model (Final)

- To match the schema given by ARL, the NL_MEMBER junction table combines what was two junction tables (previous slide) into one table where EITHER employee_member_id OR notice_list_member_id is used.



Logical Model Relational




APEX Application

- URL
- ACCOUNTS
 - ADMIN
 - user: nladmin, pwd: nladmin
 - STANDARD
 - user: nlstandard, pwd: nlstandard
 - BASIC
 - user: nlbasic, pwd: nlbasic
 - NONE
 - user: nlnone, pwd: nlnone

Login Page

- Uses APEX authentication and links APEX users to NL_EMPLOYEES

ARL Notice List Manager



Log In

Username

Password

Log In

Notice List Tab

- ADMIN only, manage notice lists

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ARL Notice List Manager

Log Out

Home

Developer

Welcome, **Elon Musk**, lab **ADS**. You are logged in as NLADMIN and have **ADMIN** access rights to this application.

Notice Lists

Membership

User Actions

Documents

Notice Lists

🔍

Go

Actions

Create Notice List

| | Name | Description | Ext View Name | Lab code | Div Code | Status | Status Eff Date | Created |
|---|------------|-------------|---------------|----------|----------|--------|-----------------|-----------|
| ✎ | ITS List 3 | its | - | ITS | MISS | ACTIVE | 29-APR-15 | 29-APR-15 |
| ✎ | ITS List | its | - | ITS | MISS | ACTIVE | 29-APR-15 | 29-APR-15 |
| ✎ | ADS List | ads | - | ADS | ACC | ACTIVE | 29-APR-15 | 29-APR-15 |
| ✎ | asdf | asdfsadf | - | ADS | ACC | ACTIVE | 29-APR-15 | 29-APR-15 |
| ✎ | ATL List | atl | - | ATL | ATL | ACTIVE | 29-APR-15 | 29-APR-15 |
| ✎ | ITS List 2 | its | - | ITS | ITS | ACTIVE | 29-APR-15 | 29-APR-15 |
| ✎ | SGL List | sgl | - | SGL | SAT | ACTIVE | 29-APR-15 | 29-APR-15 |

1 - 7

Members Tab

- Manage memberships
- Filter by last name
- Filter by list name
- ADMINS can control any list
- STANDARD users can only control lists in their lab
- Tree view of list membership
- Multiselect via shuttle controls

The screenshot displays the 'ARL Notice List Manager' application. The left sidebar contains navigation links for 'Home' and 'Developer'. The main content area is titled 'Membership' and includes a welcome message for 'Elon Musk, lab ADS'. Below the welcome message are tabs for 'Notice Lists', 'Membership', 'User Actions', and 'Documents'. The 'Membership' tab is active, showing a 'Select Notice List' dropdown set to 'ADS List lab:ADS'. Below this are filters for 'Filter by Lab' and 'Filter by Employee Last Name'. The main area is divided into two sections: 'Employee Members' and 'Notice List Members'. The 'Employee Members' section shows a list of employees with their status and lab, and a set of shuttle controls (arrows) to move them between lists. The 'Notice List Members' section shows a list of notice lists with their status and lab, and a set of shuttle controls. At the bottom, there is a 'Membership Tree' section showing a tree view of the membership structure, including 'ITS List 2' and its associated members.

ARL Notice List Manager

Welcome, **Elon Musk**, lab **ADS**. You are logged in as **NLADMIN** and have **ADMIN** access rights to this application.

Notice Lists Membership User Actions Documents

Membership

Commit Notice List Changes Commit Employee Changes

Select Notice List ADS List lab:ADS

Filter by Lab

Filter by Employee Last Name

Employees

Duncan, Tim P -- ACTIVE -- lab:ATL
Durant, Kevin L -- ACTIVE -- lab:ADS
Einstein, Albert P -- ACTIVE -- lab:ATL
Harden, James -- ACTIVE -- lab:ITS
Musk, Elon -- ACTIVE -- lab:ADS

Employee Members

Filter by Notice List Name

Notice Lists

ITS List -- ACTIVE -- lab:ITS
ITS List 3 -- ACTIVE -- lab:ITS
SGL List -- ACTIVE -- lab:SGL

ITS List 2 -- ACTIVE -- lab:ITS

Membership Tree

ITS List 2

- TimDuncan
- AlbertEinstein
- JamesHarden
- ElonMusk
- MichaelJordan

User Action Tab

- Remove user from all lists
- Clone user membership to another user
- ADMINS can manage any user, STANDARD can only manage users in their lab

ARL Notice List Manager

Log Out

Home

Developer

Welcome, **Elon Musk**, lab **ADS**. You are logged in as NLADMIN and have **ADMIN** access rights to this application.

Notice Lists

Membership

User Actions

Documents

User Actions

Select Employee Durant, Kevin L

Q

Go

Actions

Remove From All

Clone Memberships

| Member Id | NI Notice List Notice List Id | NI Employee Member Id | NI Notice List Member Id | Created | Created By | Row Version Number | Updated | Updated By |
|-----------|-------------------------------|-----------------------|--------------------------|-----------|------------|--------------------|-----------|------------|
| 621 | 180 | 125 | - | 29-APR-15 | NLADMIN | 1 | 29-APR-15 | NLADMIN |
| 512 | 240 | 125 | - | 29-APR-15 | NLADMIN | 1 | 29-APR-15 | NLADMIN |

1 - 2

Documents Tab

- ADMIN/STANDARD/BASIC users can upload documents associated to their NL_EMPLOYEE row

The screenshot displays the ARL Notice List Manager application. The left sidebar contains a menu with 'Home' and 'Developer' options. The main content area shows a welcome message for 'Elon Musk' and a navigation bar with 'Notice Lists', 'Membership', 'User Actions', and 'Documents' (the active tab). Below the navigation bar is a 'Documents' section with a search bar, 'Go' button, 'Actions' dropdown, and an 'Upload Document' button. A table lists documents, with one entry visible: 'stewie.jpg' associated with 'family guy', having a 'Download' link, file type 'image/jpeg', and a date of '28-APR-15'. The bottom right corner shows '1 - 1'.

ARL Notice List Manager Log Out

Home
Developer

Welcome, **Elon Musk**, lab **ADS**. You are logged in as NLADMIN and have **ADMIN** access rights to this application.

Notice Lists Membership User Actions **Documents**

Documents

| | | | | | | | |
|--|------------|------------|--------------------------|------------|---|---|-----------|
| | stewie.jpg | family guy | Download | image/jpeg | - | - | 28-APR-15 |
|--|------------|------------|--------------------------|------------|---|---|-----------|

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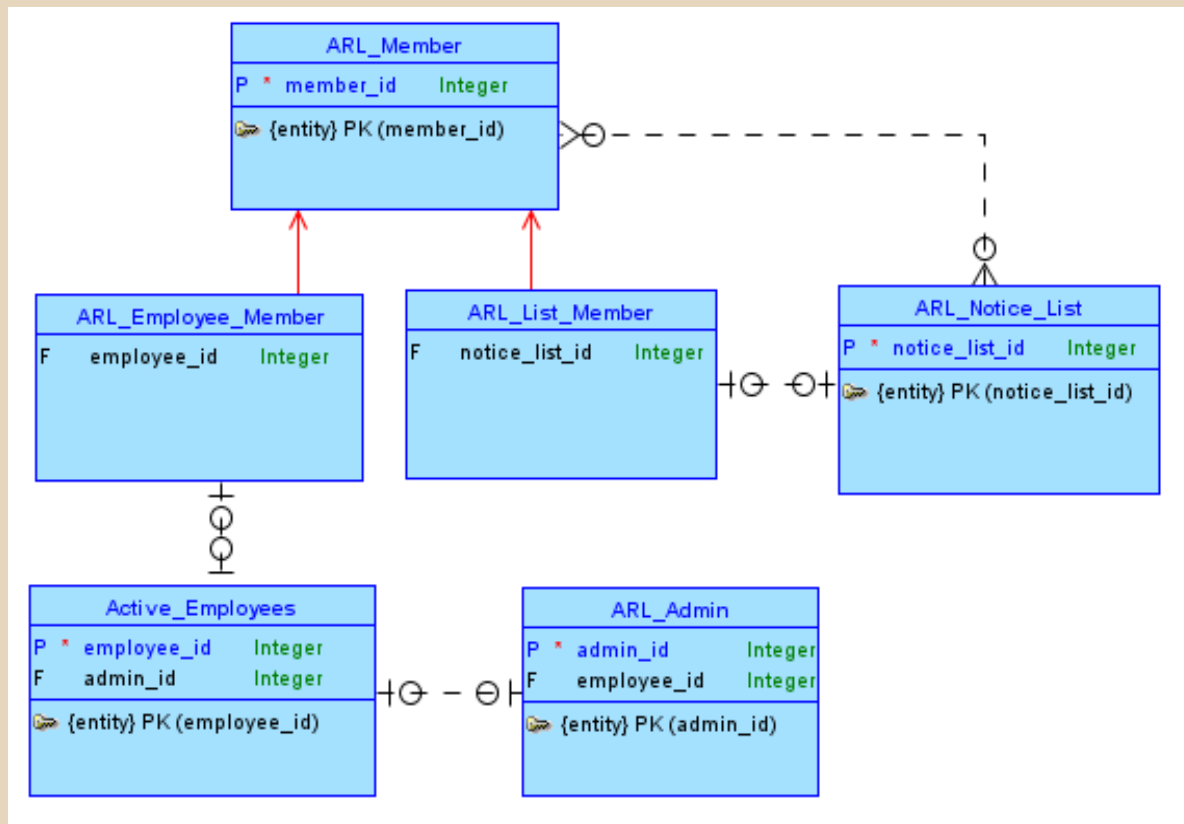
Known Bugs

- Region display selector does not properly draw column names for all tabs when SHOW_ALL option is turned off. It will only show column names for the currently selected tab
- Tree control is 'legacy' and doesn't support cascading LOVs. The only way to update it is to submit the page.

BACKUP SLIDES

Conceptual Model B

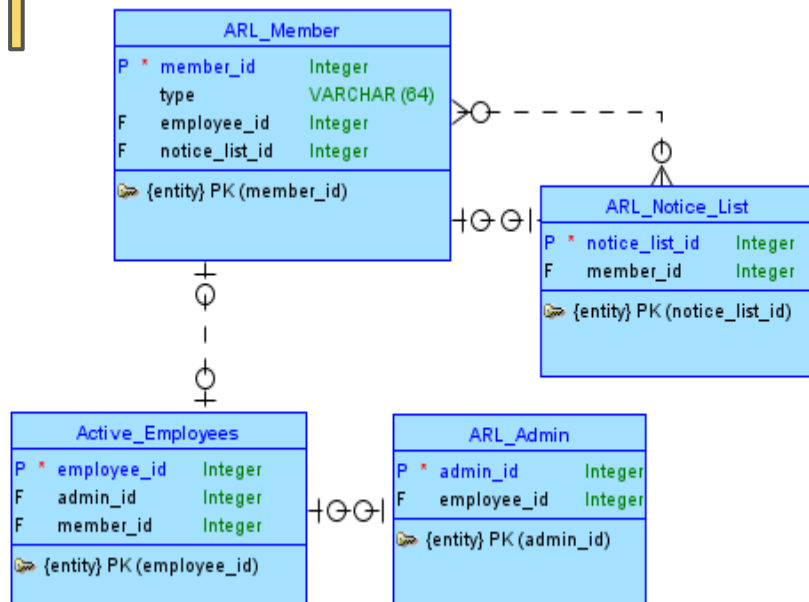
- Use inheritance to model “member” hierarchy
- Downside is it creates a new member table that is unnecessary and can be simplified down to the same thing as logical model A (explained in next slide)



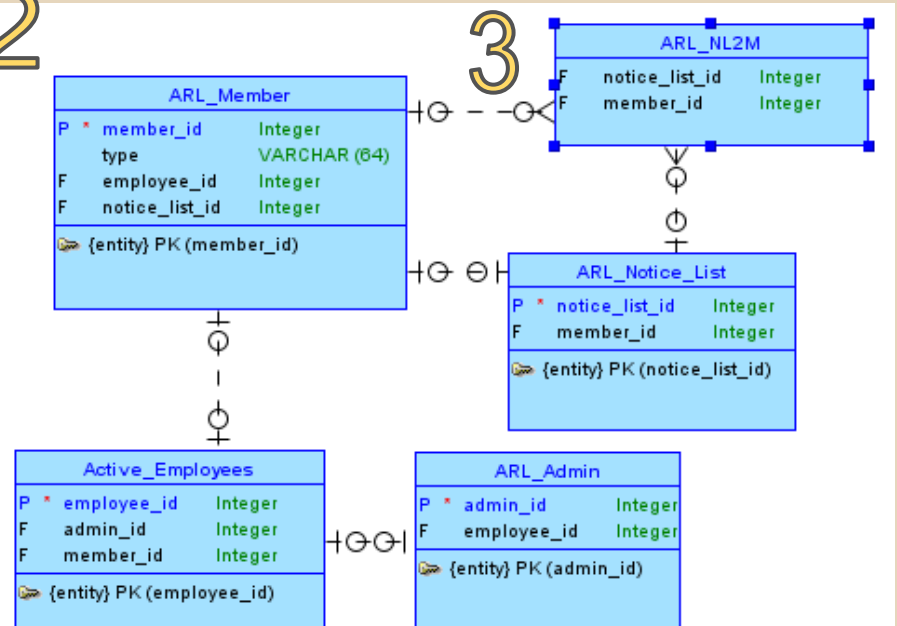
Logical Model B

1. Collapse the member hierarchy
2. Add junction table for M:N relationship
3. Notice that ARL_Member can be coalesced into ARL_NL2M and **type** can be made implicit by using employee_id OR notice_list_id. This change brings us back to logical model A. (It doesn't seem like there are any downsides to doing this UNLESS we need to have views into the junction table to guarantee that the right id attribute is filled in.)

1



2



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