

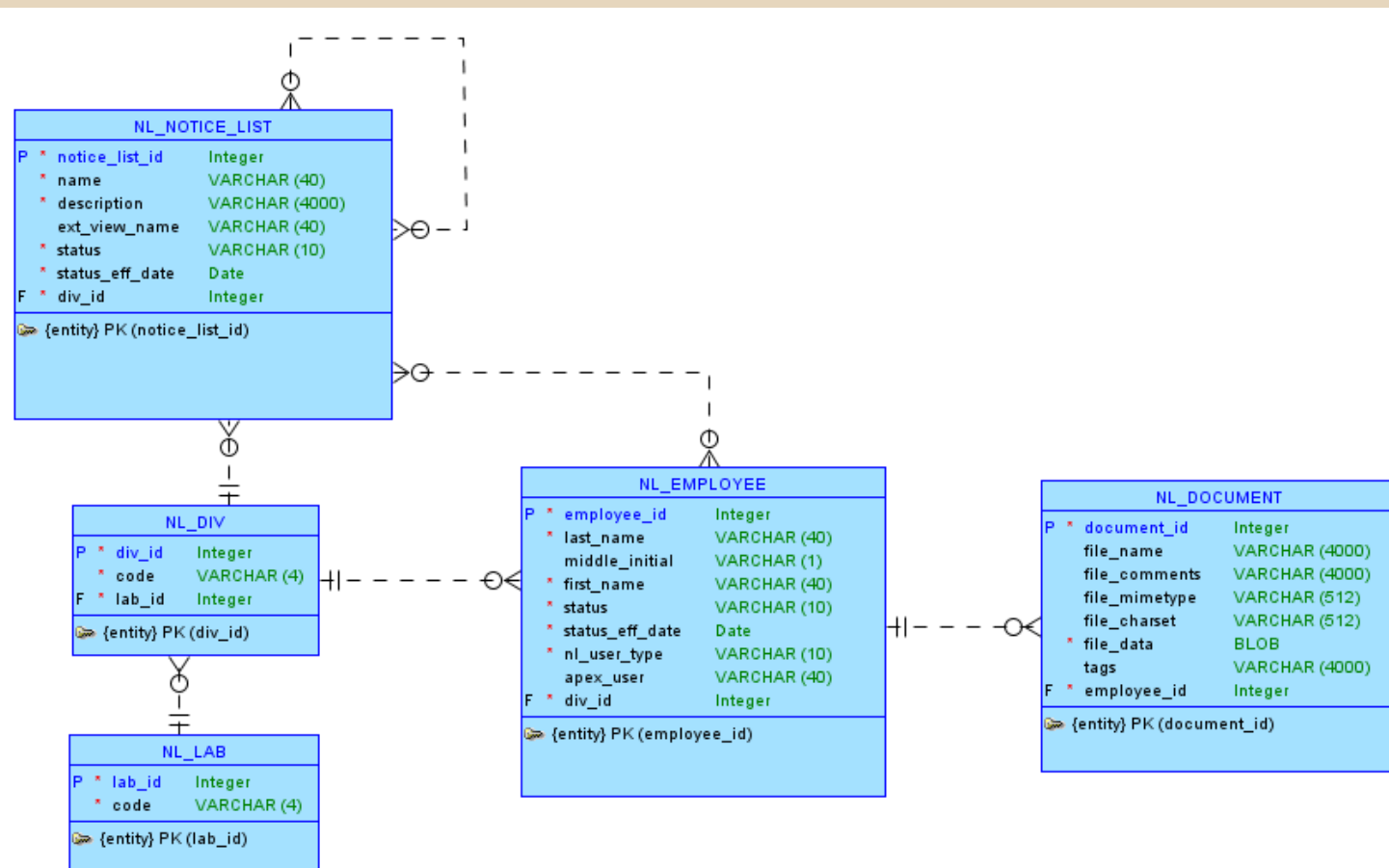
ARL Notice List Project

CS347 Final Presentation

Steven Ritchie, Andrew Nguyen

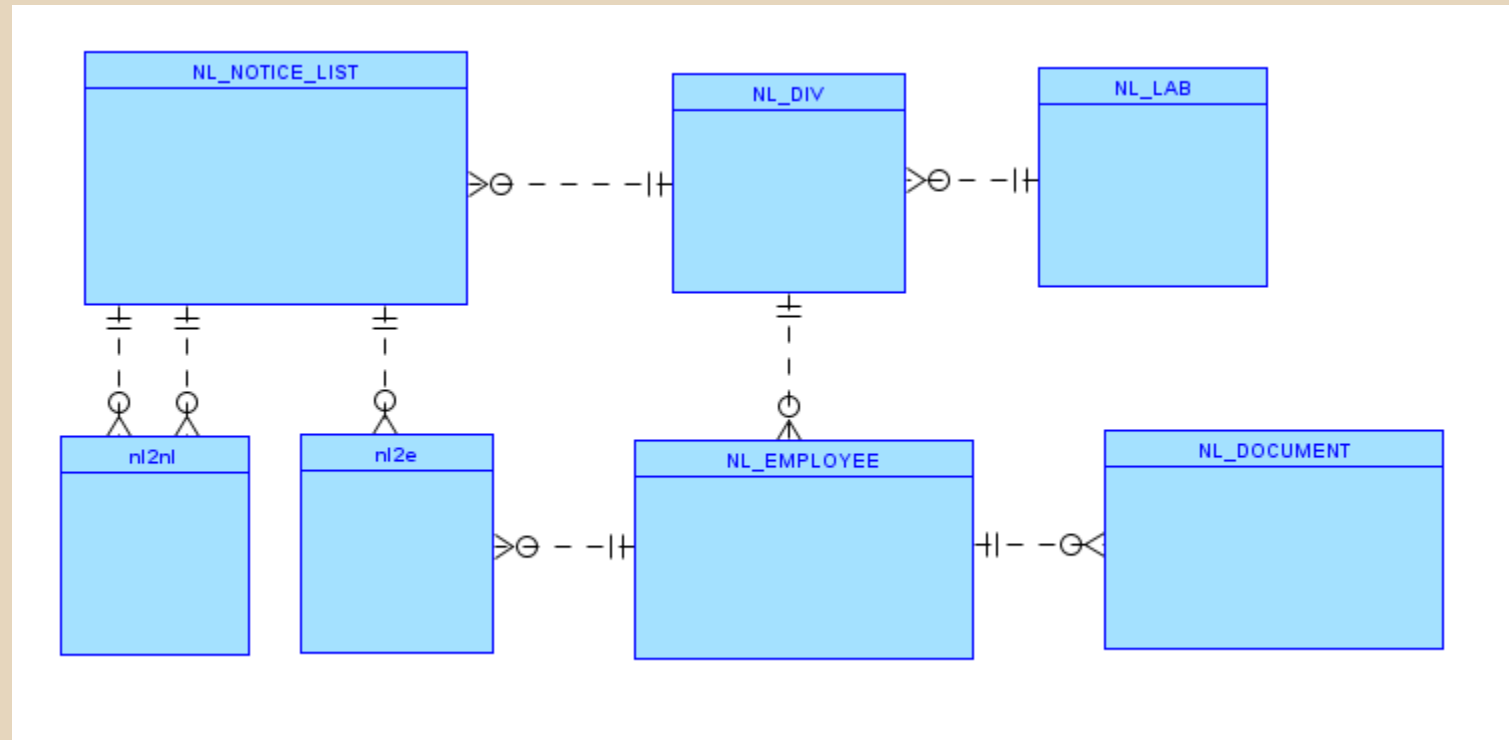
Conceptual Model

- NL_EMPLOYEE, NL_DIV, NL_LAB are read-only tables



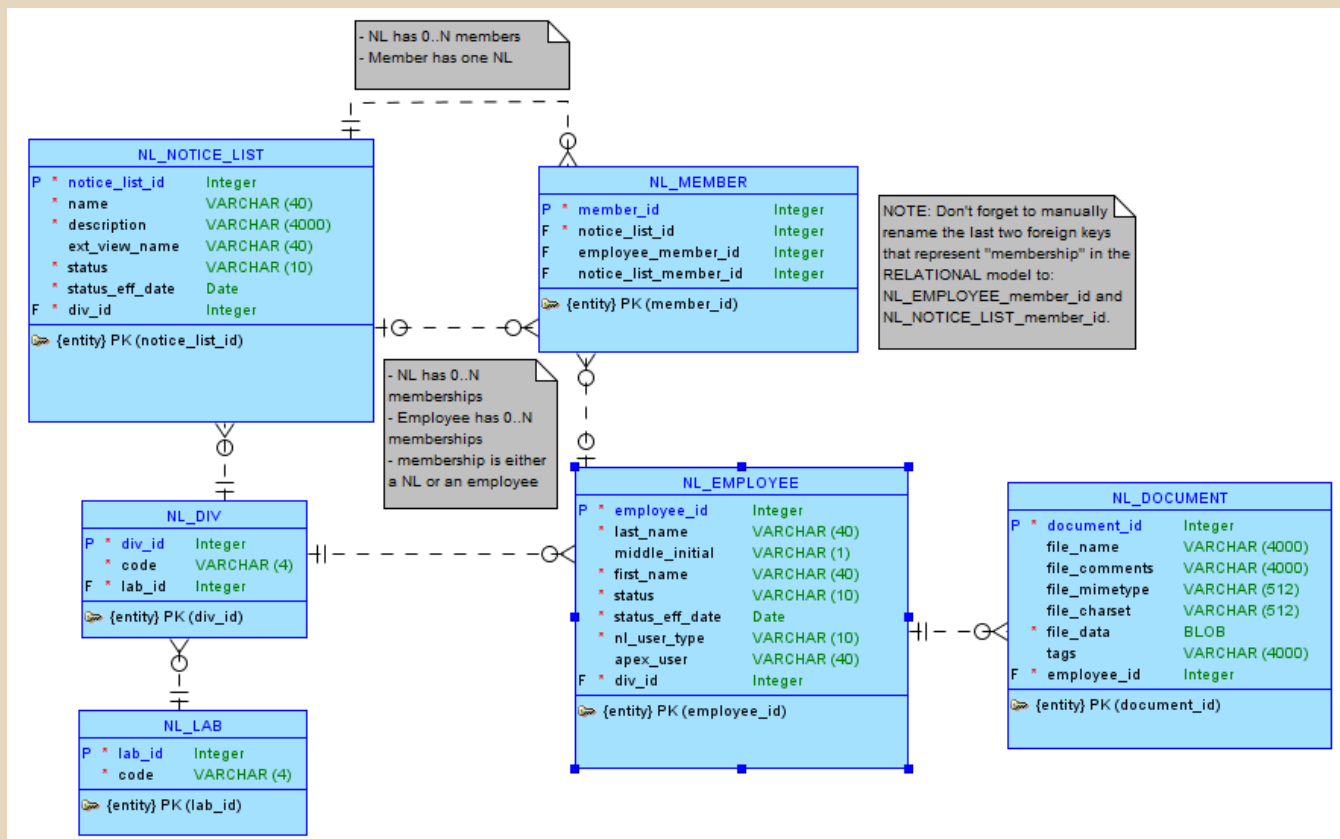
Logical Model (Intermediate)

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

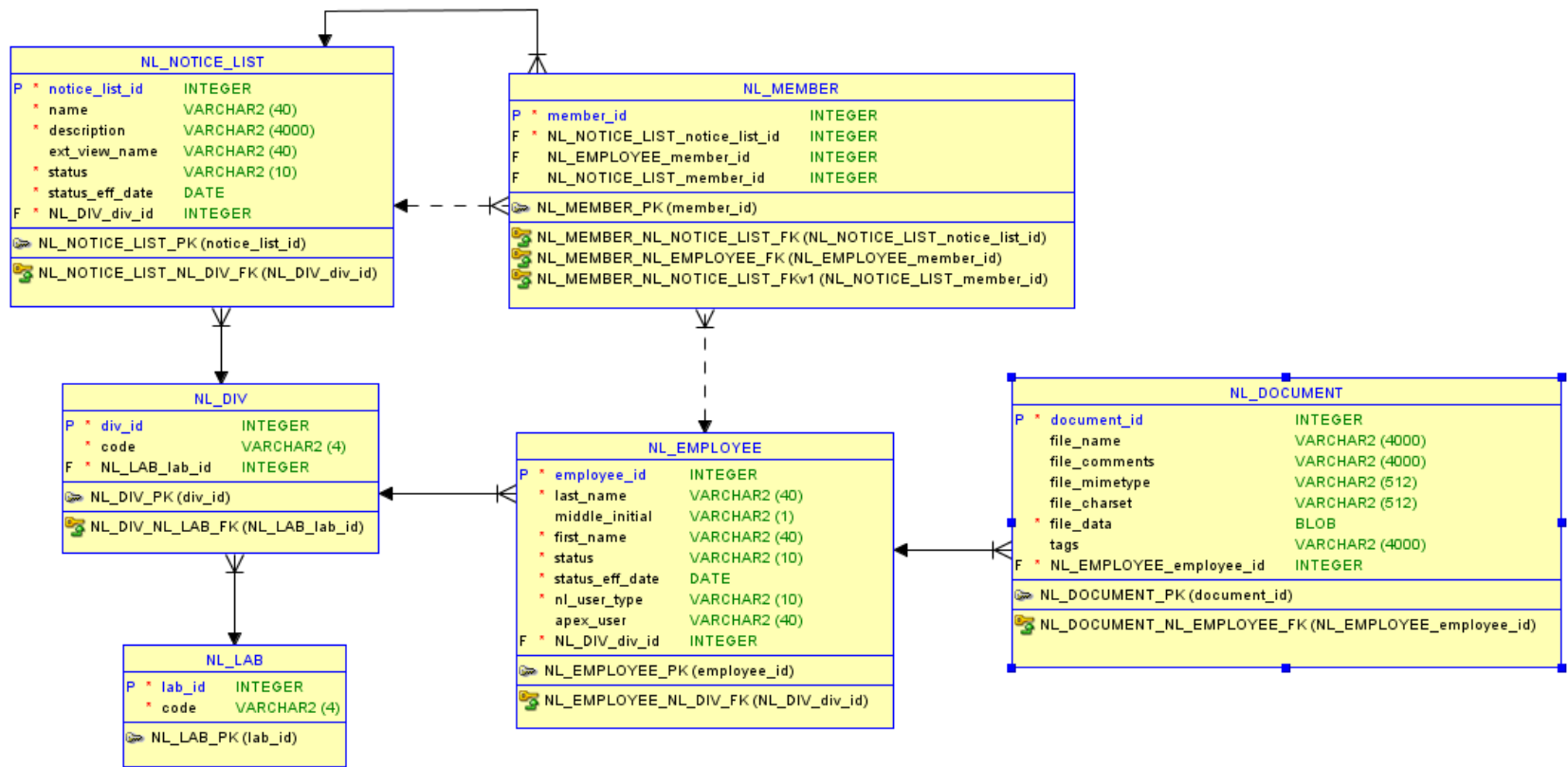


Logical Model (Final)

- 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



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

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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 vis shuttle controls

The screenshot displays the 'ARL Notice List Manager' application. The top navigation bar includes a 'Log Out' link. A sidebar on the left contains links for 'Home' and 'Developer'. The main content area is titled 'Membership' and features a welcome message for 'Elon Musk, lab ADS'. Below this, there are tabs for 'Notice Lists', 'Membership', 'User Actions', and 'Documents'. The 'Membership' tab is active, showing a 'Commit Notice List Changes' and 'Commit Employee Changes' button. The interface is divided into two main sections: 'Employee Members' and 'Notice List Members'. The 'Employee Members' section includes a 'Select Notice List' dropdown (set to 'ADS List lab:ADS'), a 'Filter by Lab' dropdown, and a 'Filter by Employee Last Name' text input. Below these are two lists: 'Employees' (containing names like Duncan, Tim P -- ACTIVE -- lab:ATL) and 'Employee Members' (empty). The 'Notice List Members' section includes a 'Filter by Notice List Name' text input and two lists: 'Notice Lists' (containing 'ITS List -- ACTIVE -- lab:ITS', 'ITS List 3 -- ACTIVE -- lab:ITS', 'SGL List -- ACTIVE -- lab:SGL') and 'Notice List Members' (containing 'ITS List 2 -- ACTIVE -- lab:ITS'). At the bottom, a 'Membership Tree' section shows a tree view for 'ITS List 2' with members: TimDuncan, AlbertEinstein, JamesHarden, ElonMusk, and 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 v

Go

Actions v

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

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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' with a 'family guy' tag, a 'Download' link, 'image/jpeg' type, and a date of '28-APR-15'. The bottom right corner shows '1 - 1'.

ARL Notice List Manager Log Out

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

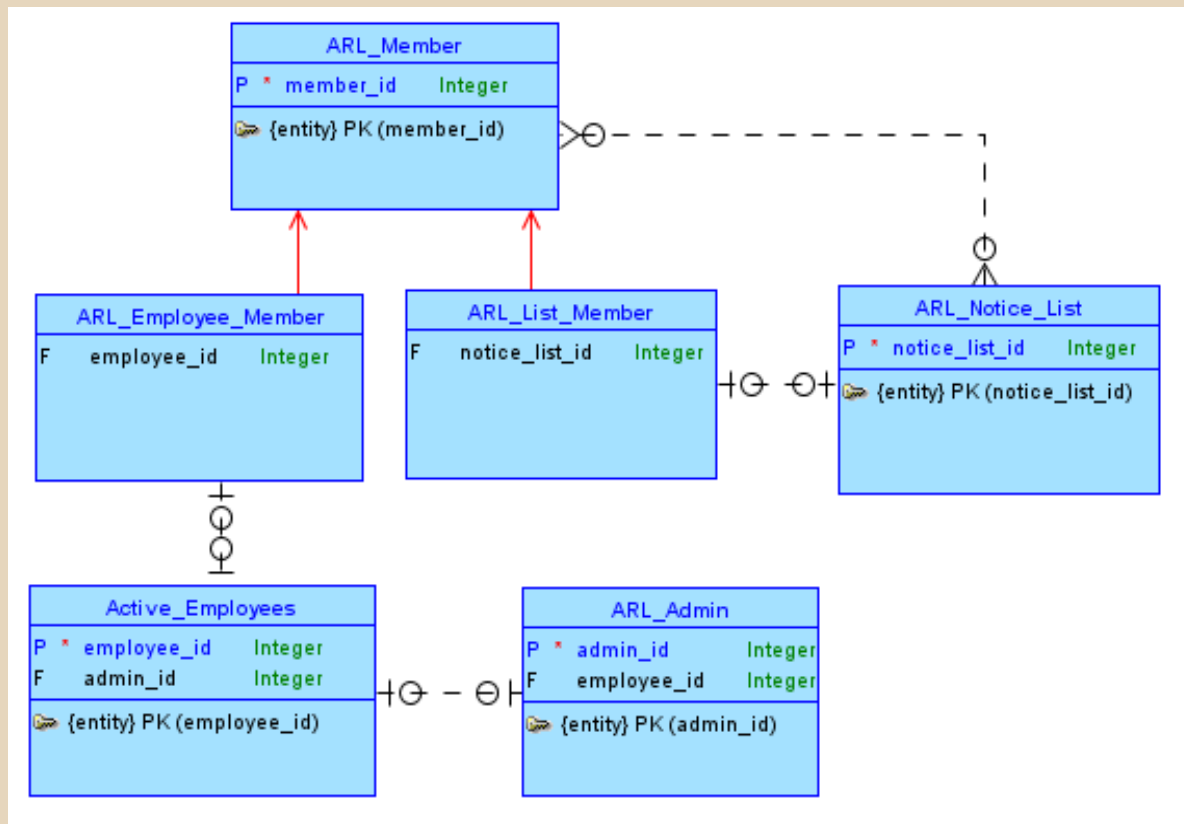
	stewie.jpg	family guy	Download	image/jpeg	-	-	28-APR-15
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BACKUP SLIDES

Conceptual Model B

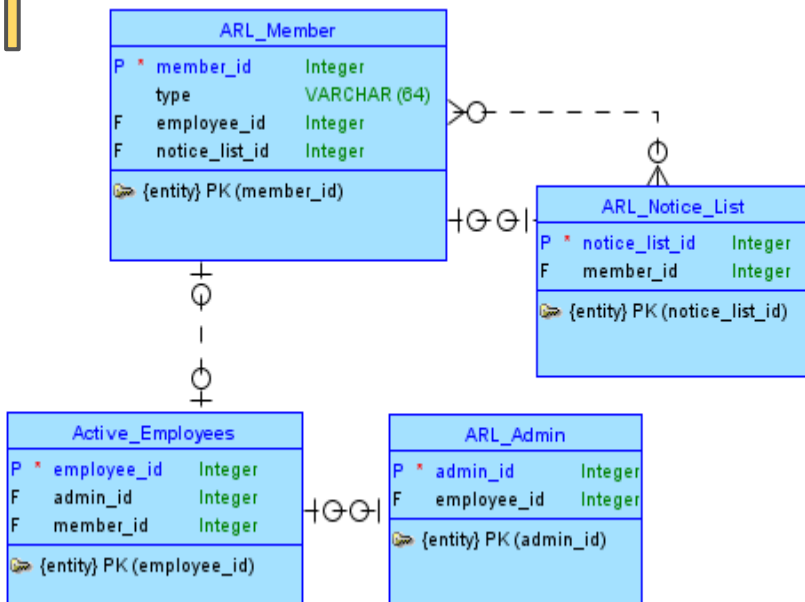
- Use inheritance to model “member” hierarchy
- Downside is it creates a new member table that is unnecessary and can be simplified down to the same thing as logical model A (explained in next slide)



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.)

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