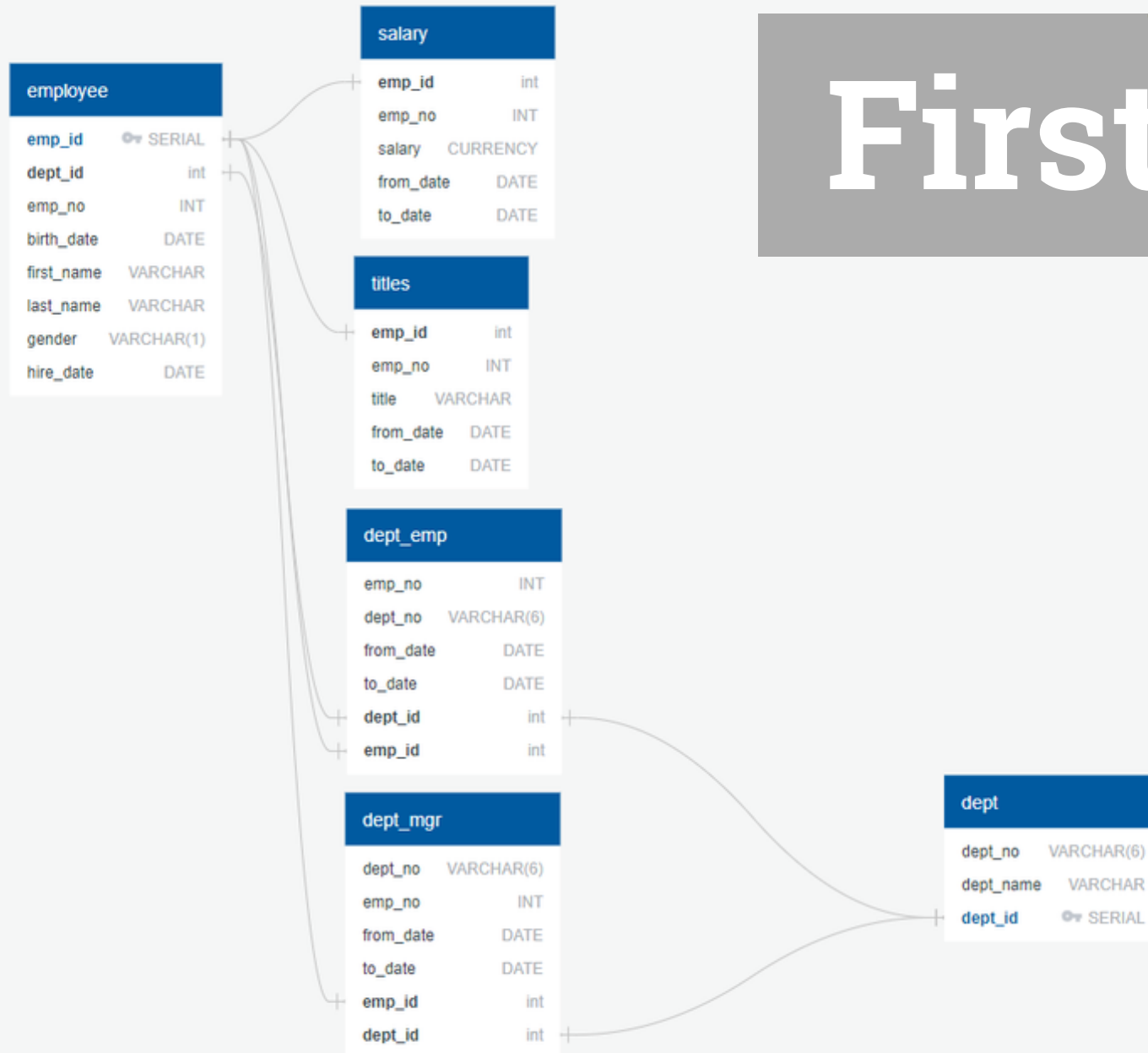
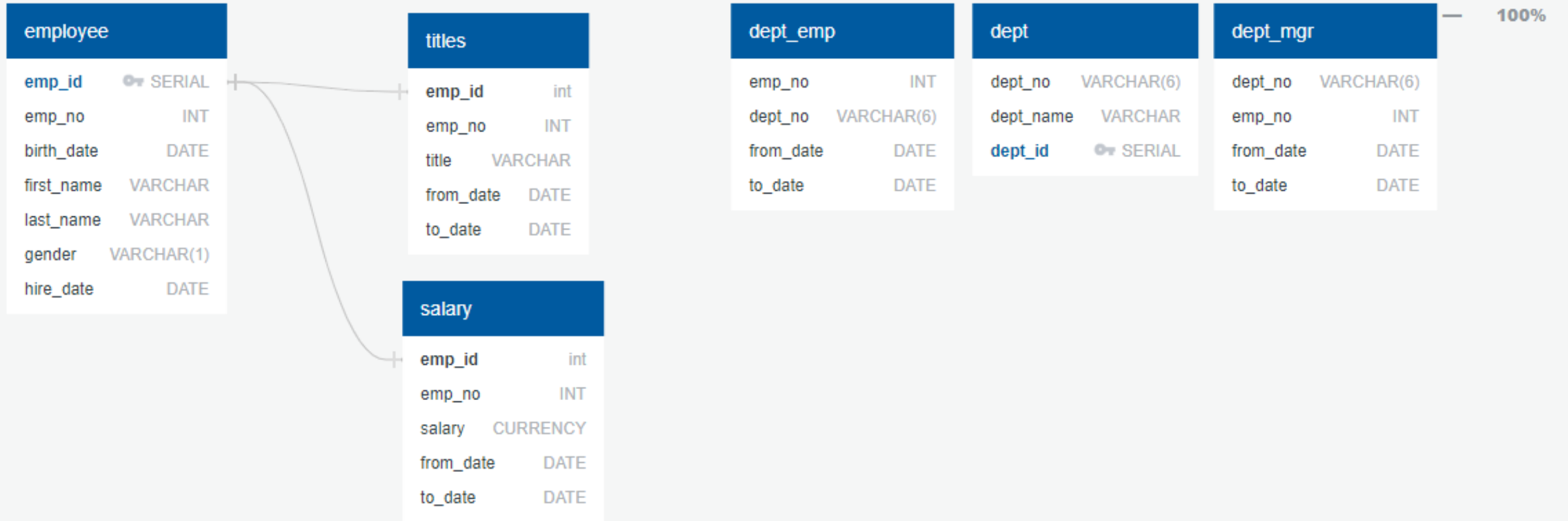


# First Draft



Thought I had to repeat ID throughout the tables in order to link them for a query.

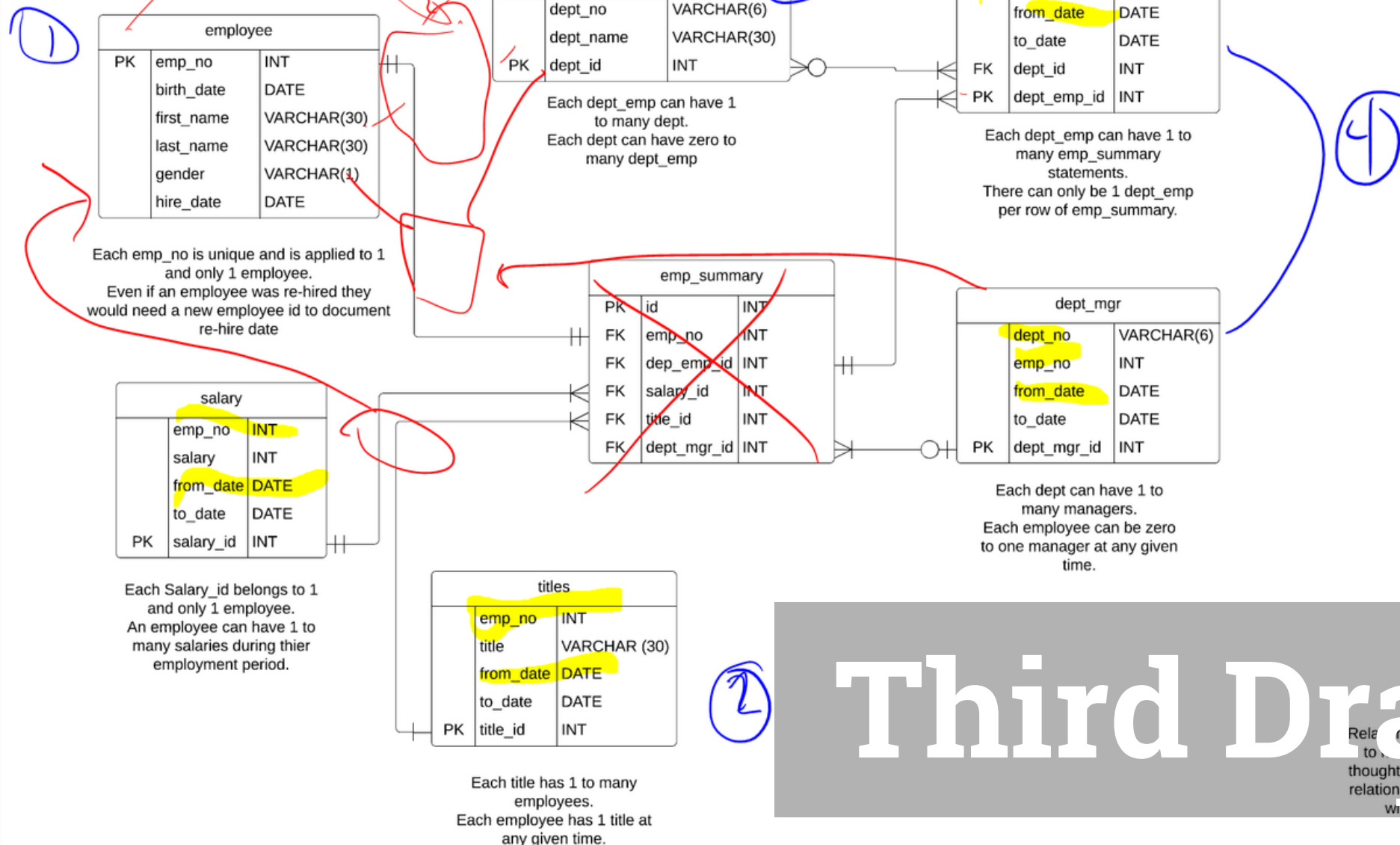
But, I noticed I was wrong and could use the ID #'s once if it was mapped effective.



# Second Draft

Then I thought I had to make an ID for the emp\_no. After research, I figured I could use the emp\_no as a primary key.

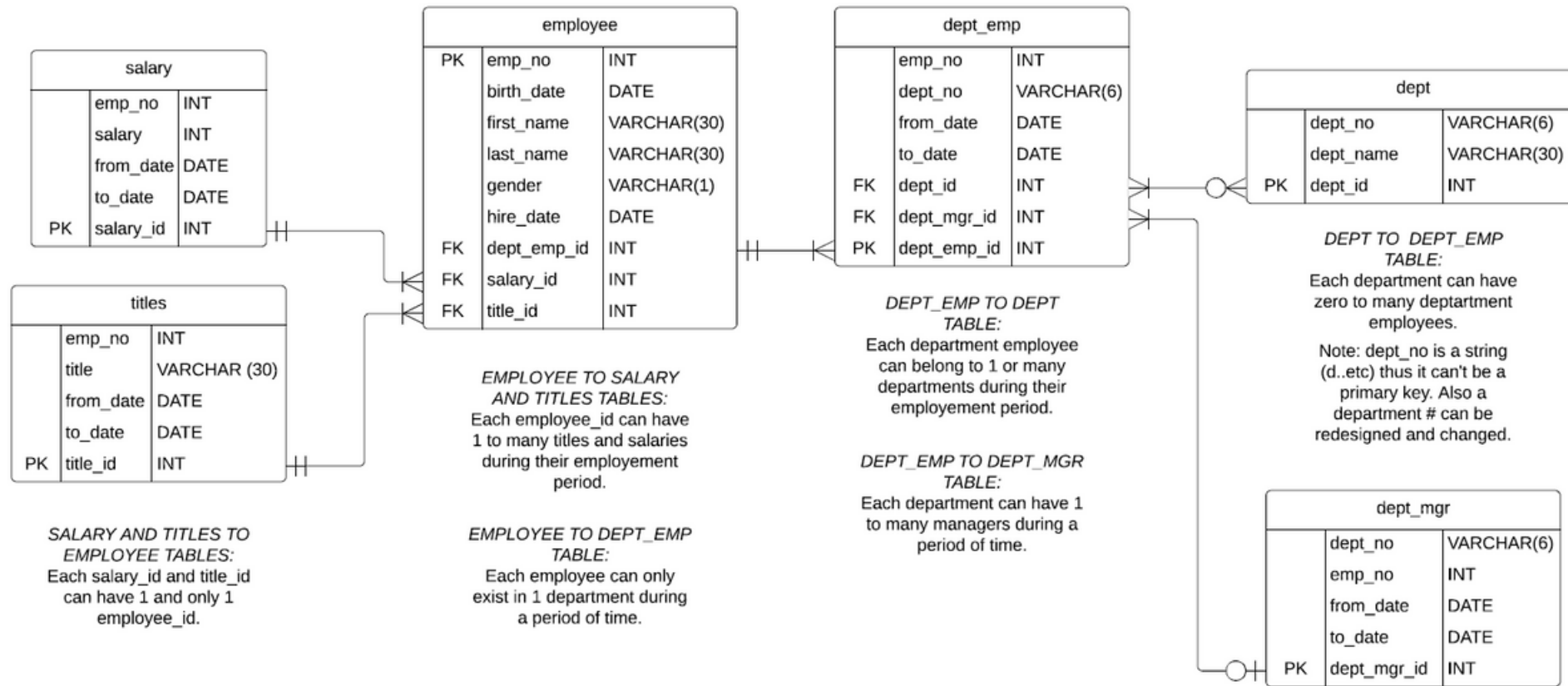
I also was looking at examples that made me think that the ID or "keys" referred to values in the columns not rows.



# Third Draft

## SQL Homework

Josefina Amaro | July 1, 2019



**SALARY AND TITLES TO  
EMPLOYEE TABLES:**  
Each salary\_id and title\_id  
can have 1 and only 1  
employee\_id.

**EMPLOYEE TO SALARY  
AND TITLES TABLES:**  
Each employee\_id can have  
1 to many titles and salaries  
during their employment  
period.

**EMPLOYEE TO DEPT\_EMP  
TABLE:**  
Each employee can only  
exist in 1 department during  
a period of time.

**DEPT\_EMP TO DEPT  
TABLE:**  
Each department employee  
can belong to 1 or many  
departments during their  
employment period.

**DEPT\_EMP TO DEPT\_MGR  
TABLE:**  
Each department can have 1  
to many managers during a  
period of time.

**DEPT TO DEPT\_EMP  
TABLE:**  
Each department can have  
zero to many department  
employees.  
  
Note: dept\_no is a string  
(d..etc) thus it can't be a  
primary key. Also a  
department # can be  
redesigned and changed.

**DEPT\_MGR TO DEPT\_EMP  
TABLE:**  
Each employee can be zero  
to one manager during a  
period of time.

### NOTES

Composite Primary Keys:  
Since the from date could be changed  
due to an adjustment, I decided to use  
a serial id instead.

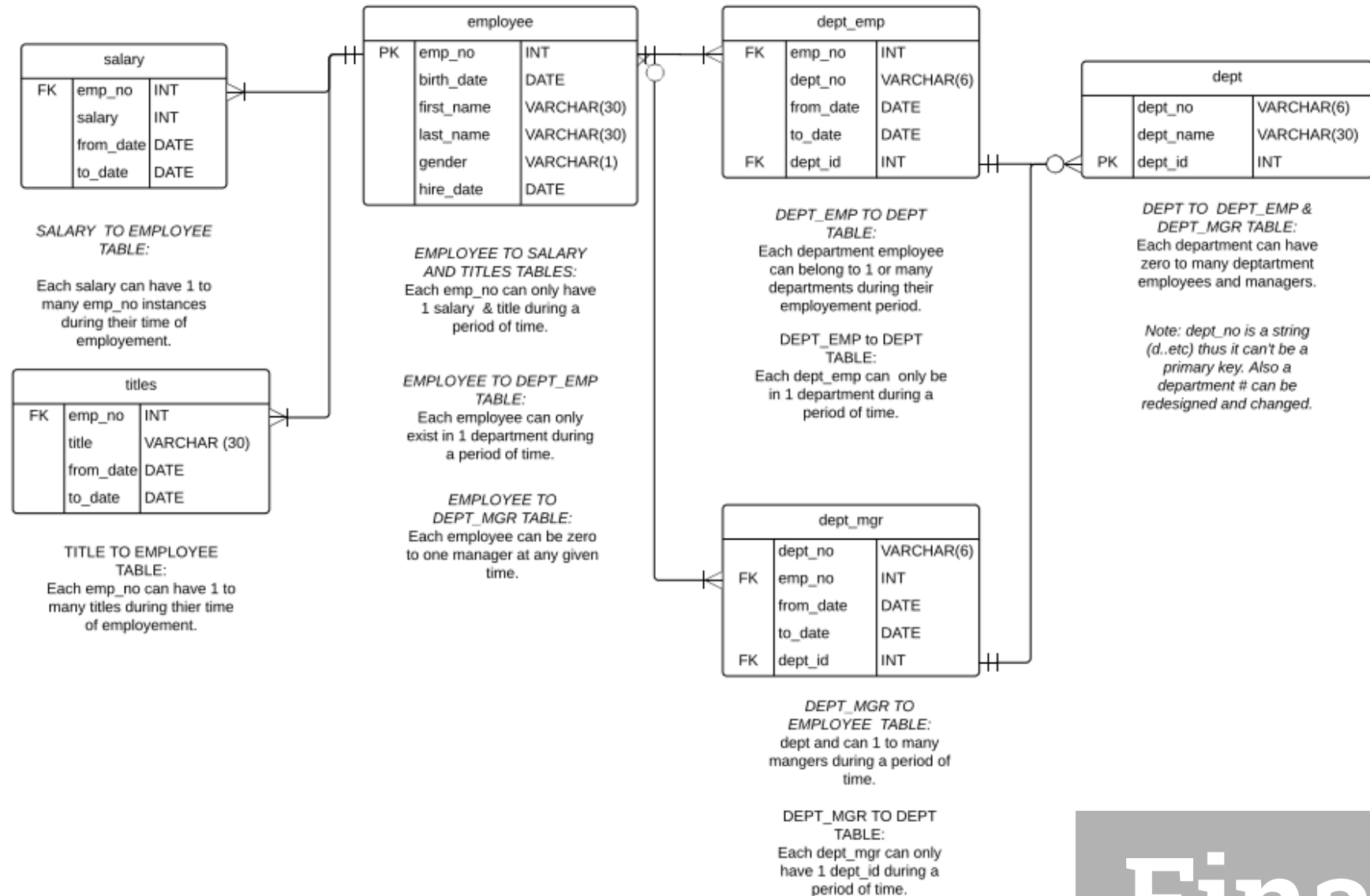
# Fourth Draft



30000  
YEARS  
LATER

## SQL Homework

Josefina Amaro | July 3, 2019



### NOTES

Composite Primary Keys:  
The suggestion arose to make the from date and the emp\_no a composite key.

However,

1. I didn't see the functional aspect of doing that for this example, since there is emp\_no and dept\_no in every table. Queries just have to be written to their respective tables with the perspective of the desired result.

2. I made serial\_id for each table to establish a primary key for each table. But, again it didn't really serve a functional purpose since we did have emp\_no and dept\_no that were unique.

Also, to summarize the relationships a junction table appeared to be a solution, but it just added complexity without functionality.

Thus I kept these tables simple.

# Finale