

Zachary Taylor

CSSE333

HW 1

Ch 1

1.10

All relationships Fl.2

relationship between:

student : course
professor : course
section : course

we might want to track
parts of majors and courses so there
could be a relationship between

Major : course

Additionally
student : section

1.11

Additional Views

Professor

SectionID	student #	student Name	Grade	

Department view

Course#	Course name	credit-hours	professors

1.12

integrity constraints.

1. Grade $\in \{A, B, C, D, F\}$
2. if you fail a pre-req remove them from the course.
3. course number prefix must be the same a department.

~~any~~.

ch 2

2.14

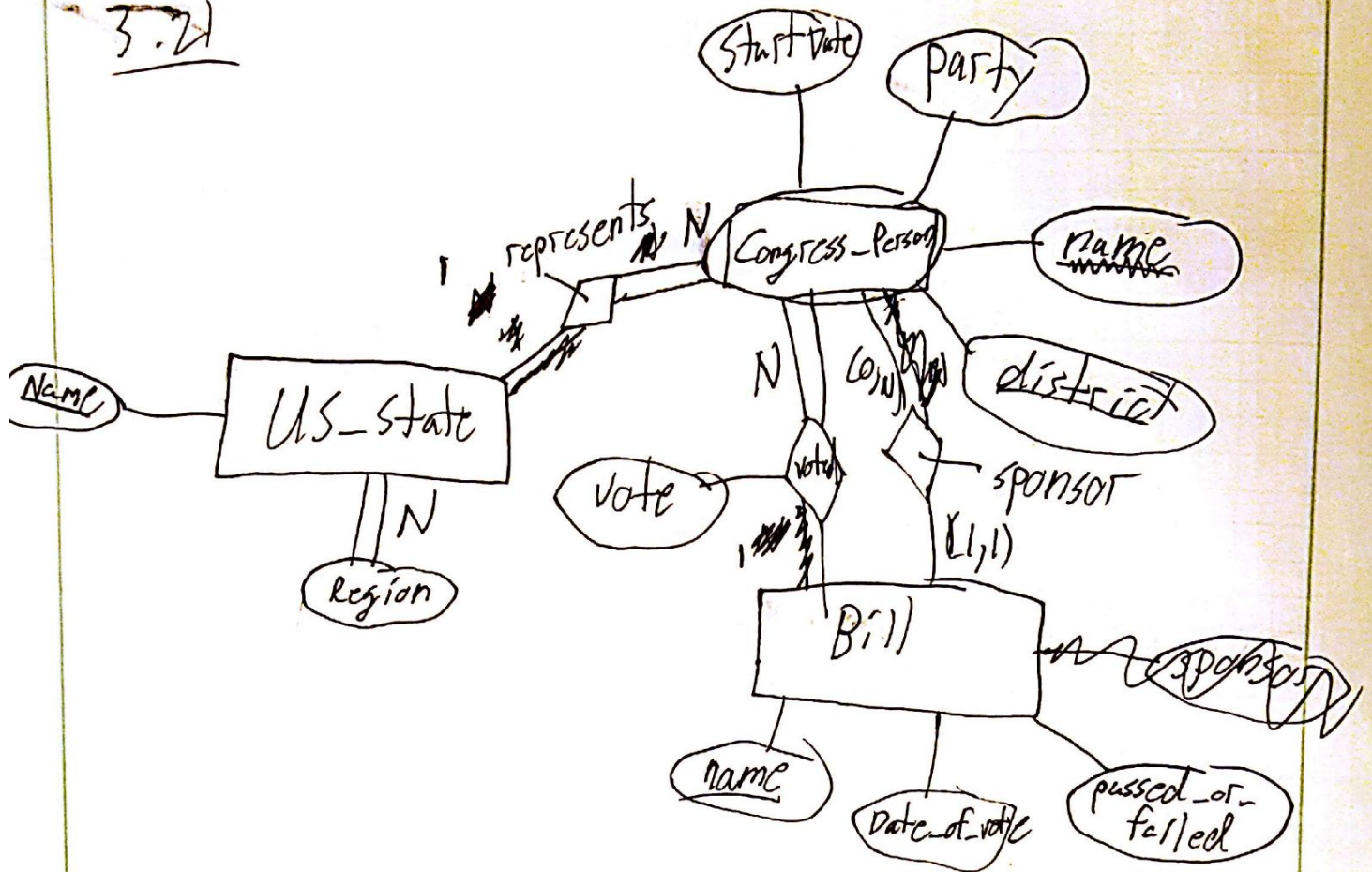
A ~~three~~ tier DBMS. Logically it is appropriate to have a gui that users interact with which connects to a web server that can validate user requests and credentials that then passes these requests to a database, as seen in figure 2.7.

A single tier does not work as a user may demand something from an airline database that it should not provide, additionally the user would have to directly interface w/ the database. Two-tier suffers from a credentials issue.

ch. 3

I assume district \neq region

3.21



Legend

$a \text{ --- } \Delta \text{ --- } b$ (is read a has N b)

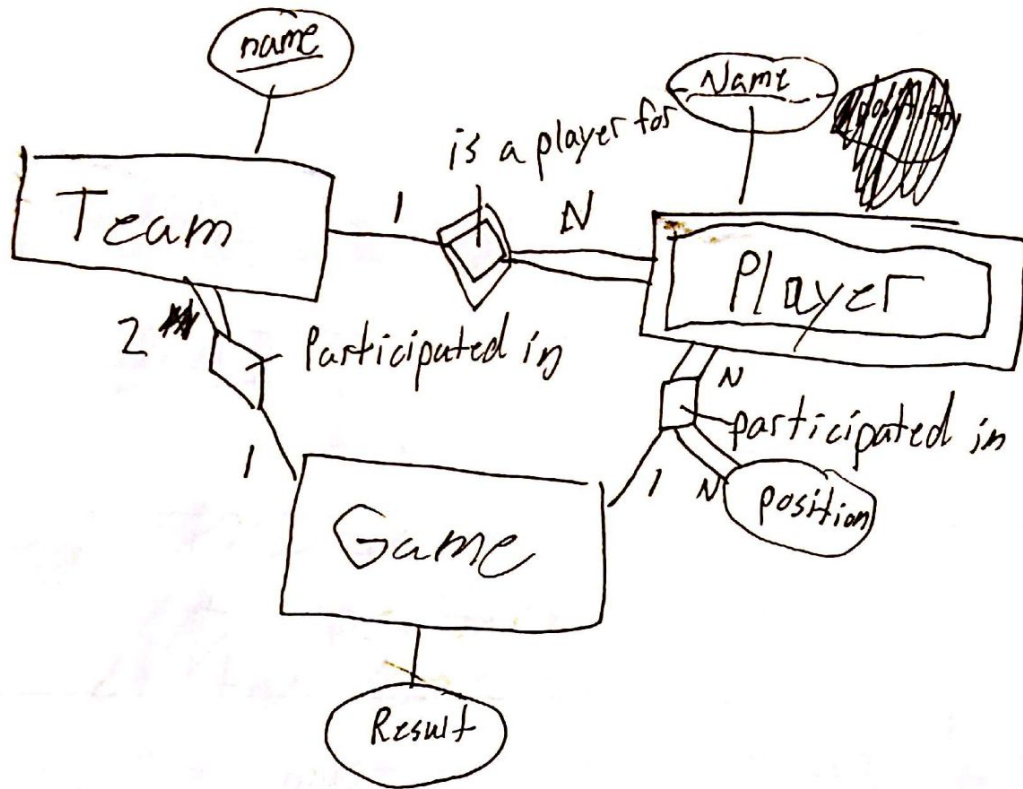
Notes

passed-or-failed is
 {"yes", "no"}
 vote is {"yes", "no",
 "abstain", "absent"}

Party is {Republican,
 Democrat,
 Independent,
 other}
 Region is {Northeast, Midwest,
 Southeast, Southwest,
 West}

3.22

soccer I Assume A ~~player~~ team has only one player of a given name.



Legend
 $a \text{ --- } 1 \text{ --- } N \text{ --- } b$ (is read a has N b)

Notes

Result is $\in \{\text{team names}\}$
 position is $\{\text{"striker", "fullback", "halfback", "goalie"}\}$

3.23

a) bank, account, Loan, customer

b) bankbranch,

primary Partial Key	<u>IDR</u>
Branch-no	Branches

c) ~~It allows two banks to have the~~
~~It specifies between two banks~~
~~of the same address.~~

You must specify an additional
bank_no which exists as a bank