CS 445 The Relational Model

Chapter 3

February 8, 2013

• Next Wednesday we will be in the CS Lab

• Linux skills are a must

– ssh	cat
- ср	less
– mv	diff
– cd	tar
– scp	
– geany	lf you don't have your zeus
- ls	password, see me soon!

Relational Model

- Read Chapter 3
 - homework: page 95: 3.1, 3.4, 3.5, 3.6
 - DUE: Feb 15, 11:59 pm
- The database is a collection of *relations*
 - each relation is a table
- Data Definition Language
 - subset of SQL
- Integrity constraints
- Views

Relation

- Relation schema
 - example:
- Relation instance
 - set of {tuples|records|rows}
- Column
 - Domain
- Relational database
 - Relational database schema
 - Relational database instance

Keys

• Candidate Key

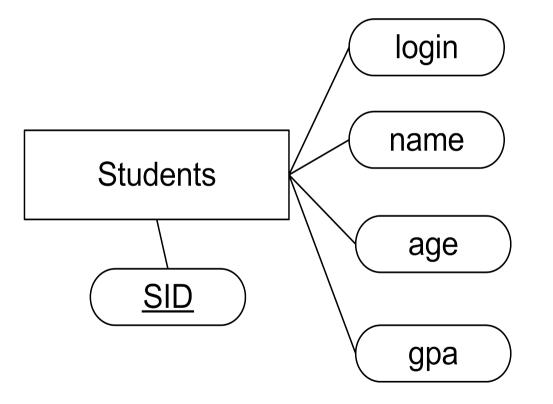
• Super Key

• Primary Key

Translation

- Translate E-R diagram to Relational Model
 - E-R Diagram to SQL!
 - must represent:

Data



Any problems with this data?

MySQL Types

- http://dev.mysql.com/doc/refman/5.5/en/data-types.html
- Char/Varchar vs Binary/Varbinary
- Int
- Real Numbers
- Date
- Blob/Text
- Set

http://dev.mysql.com/doc/refman/5.5/en/charset.html

• Enum

http://forums.mysql.com/read.php?10,417247,417412#msg-417412

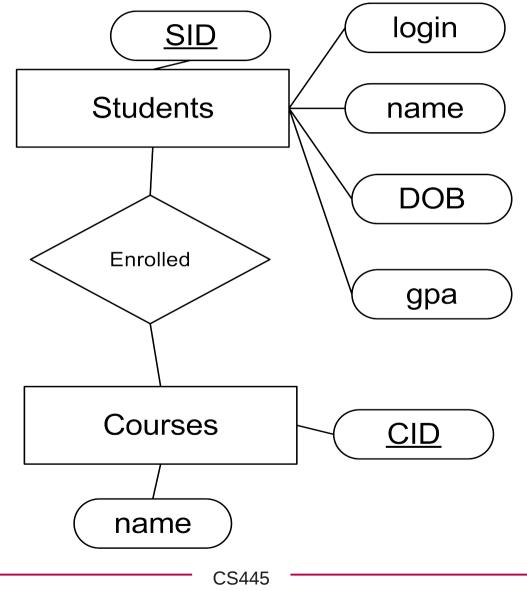
Create a relation

- SQL
- CREATE TABLE

Insert

- INSERT INTO (
 - VALUES (

Data



Key References

• CREATE TABLE

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