Lecture2:

StudentInfo(RIN, SSN, FirstName, LastName, Email, Major, Advisor)

Students can have multiple majors, for a major and student, there is a single advisor, an advisor can only advise one major for student

Key: RIN, Major

SSN, Major

Email Major

RIN, Advisor

SSN, Advisor

Email, Advisor

StudentInfo2(RIN, SSN, FirstName, LastName, Email, Major, Advisor)

Students can have multiple majors, for a major and student, there is a single advisor

Key: RIN, Major

SSN, Major

Email, Major

Lecture exercise3

1. Project\_{name} (select\_{year=2021} (Person) \* BookAuthors \* Books ) 这里面括号加的不对，是从Person里面选year=2021的

Lecture4

Boyce-Codd Normal Form (BCNF):

Given a relation R and a set of fds F, R is in Boyce-Codd Normal Form

iff, every functional dependency X->Y in F satisfies one of the

following conditions:

(a) X->Y is trivial, or

(b) X is a superkey!

图形用户界面, 文本, 应用程序

描述已自动生成

图形用户界面, 文本, 应用程序, 电子邮件

描述已自动生成

图形用户界面, 文本, 应用程序

描述已自动生成

文本

描述已自动生成

图形用户界面, 文本

描述已自动生成

HW1：

文本

描述已自动生成

图形用户界面, 应用程序

描述已自动生成

图形用户界面, 文本, 应用程序

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问题一: gamemecahnics 未必是全表;

问题二:



可能会出现一个gameid有多个mechanic, 其中一个是Dice Rolling，但是还出现在R1

Either…or…或者或者，其他都是既不也不

文本

描述已自动生成

ACF -> G is an FD projected into R2 and cannot be implied with respect to {AB -> C, ABF -> G}. Therefore it should be kept. Actually, I discussed with the professor that ABF -> G can be implied with respect to {AB -> C, ACF -> G} and therefore can be removed.

图示

描述已自动生成