

6/7/2017

Example from 3notes09 part 1

Student (name, SS#) SS# -> name

HS (city, code) code -> city

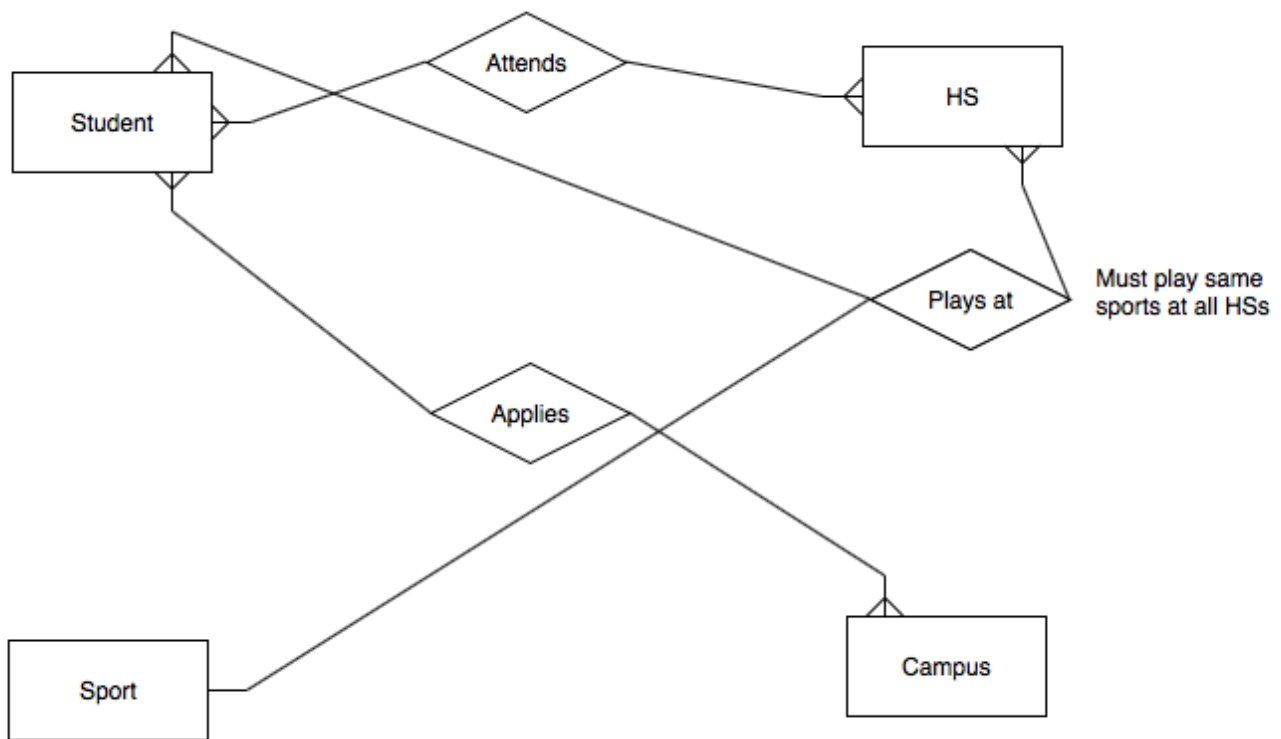
Campus (name)

Sport (name)

Attends (SS#, HScode)

Applies (SS#, CampusName) FK (CampusName, Campus(Name)) FK (SS#, Student(SS#))

Plays At (SS#, HScode, SportName)



Example from 3notes09 part 2

A1 (SS#, name)

~~A2 (SS#, campus, sport, HScode, HScity)~~

A2.1 (HScode, HScity)

A2.2 (HScode, SS#, campus, sport)

Example from 3notes10 part 1

$\{\text{title, year}\}^+ = \{\text{title, year, studioName, president, presAddr}\}$

$\{\text{studioName}\}^+ = \{\text{studioName, president, presAddr}\}$

$\{\text{president}\}^+ = \{\text{president, presAddr}\}$

title, year \rightarrow studioName, president, presAddr

studioName \rightarrow president, presAddr

president \rightarrow presAddr

~~R1 (studioName, president, presAddr)~~

- studioName \rightarrow president, presAddr
- president \rightarrow presAddr

R1.1 (president, presAddr)

- president \rightarrow presAddr

R1.2 (president \rightarrow studioName)

- studioName \rightarrow president

R2 (studioName, title, year)

- title, year \rightarrow studioName

Example from 3notes10 part 2

R (ABCDE)

A \rightarrow BC

CD \rightarrow E

B \rightarrow E

E \rightarrow A

$\{A\}^+ = \{ABCE\}$

$\{B\}^+ = \{ABCE\}$

$\{C\}^+ = \{\epsilon\}$

$\{D\}^+ = \{\epsilon\}$

$\{E\}^+ = \{ABCE\}$

$\{AB\}^+ = \{AB\}$

$\{AC\}^+ = \{AC\}$

$\{AD\}^+ = \{ABCDE\}$

$\{AE\}^+ = \{AE\}$

$\{BC\}^+ = \{BC\}$

$\{BD\}^+ = \{ABCDE\}$

$\{BE\}^+ = \{BE\}$

$$\{\mathbf{CD}\}^+ = \{ABCDE\}$$

$$\{\mathbf{CE}\}^+ = \{\mathbf{CE}\}$$

$$\{\mathbf{DE}\}^+ = \{ABCDE\}$$

$$\{\mathbf{ABC}\}^+ = \{\mathbf{ABC}\}$$

$$\{\mathbf{ABD}\}^+$$

$$\{\mathbf{ABE}\}^+ = \{\mathbf{ABE}\}$$

$$\{\mathbf{ACD}\}^+$$

$$\{\mathbf{ACE}\}^+ = \{\mathbf{ACE}\}$$

$$\{\mathbf{ADE}\}^+$$

$$\{\mathbf{BCD}\}^+$$

$$\{\mathbf{BCE}\}^+ = \{\mathbf{BCE}\}$$

$$\{\mathbf{BDE}\}^+$$

$$\{\mathbf{CDE}\}^+$$

$$\{\mathbf{ABCD}\}^+$$

$$\{\mathbf{ABCE}\}^+ = \{\mathbf{ABCE}\}$$

$$\{\mathbf{ABDE}\}^+$$

$$\{\mathbf{ACDE}\}^+$$

$$\{\mathbf{BCDE}\}^+$$

A -> BCE

B -> ACE

E -> ABC

AD -> BCE

BD -> ACE

CD -> ABE

DE -> ABC

R1 (ABCE)

- A -> BCE
- B -> ACE
- E -> ADC

R2 (AD)