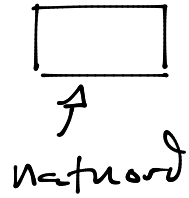
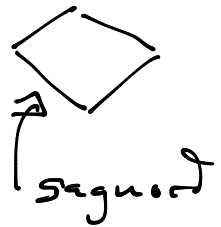


E/R Syntax

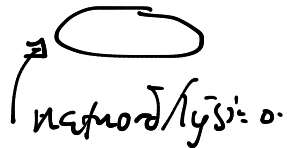
Einindi (entity)



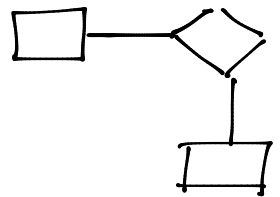
Tengsl (Relationship)



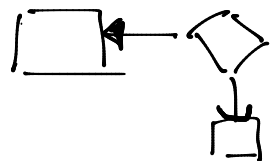
Eiginleikar (attributes)

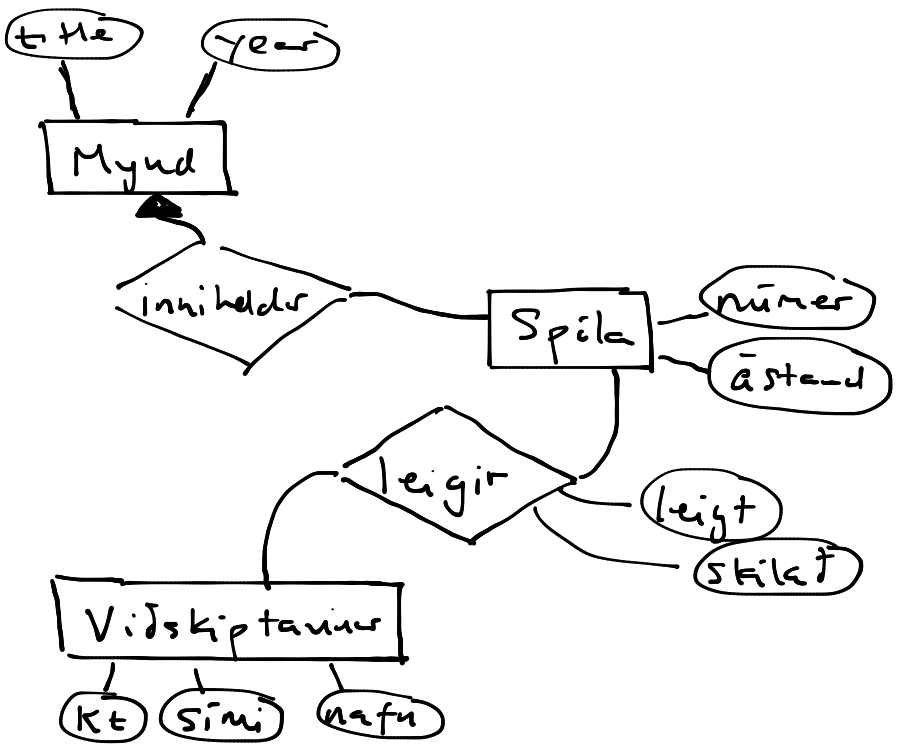


~~örver~~ líkur fara á milli E og R



örver á línu





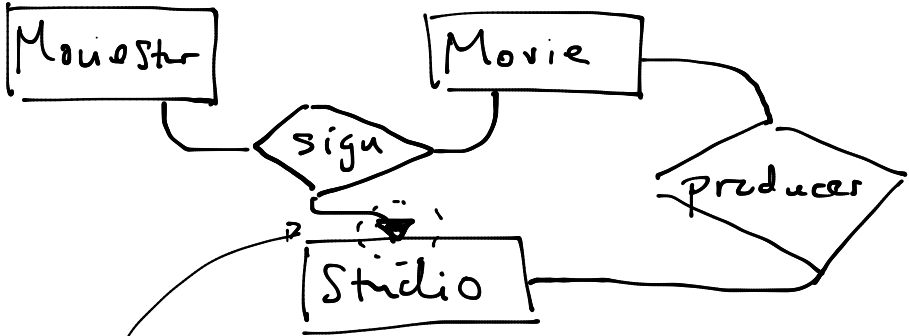
many-to-one $E \rightarrow F$

et hvor hlatur \bar{i} E getur ~~fi~~ tengst \bar{i} mesta lagi einum hlut \bar{i} F . táknað \rightarrow

one-to-one $E \rightarrow F$ og $\bar{F} \rightarrow E$

many-to-many ekkert af of tölde.

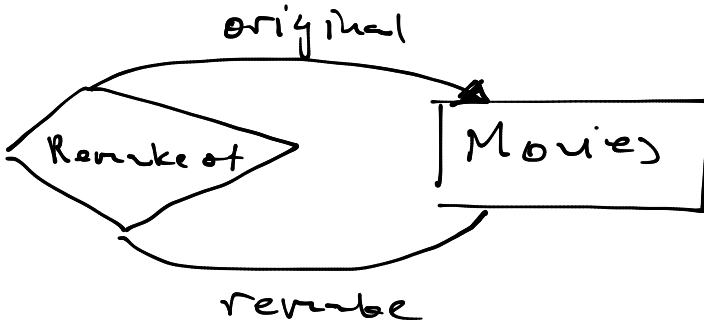
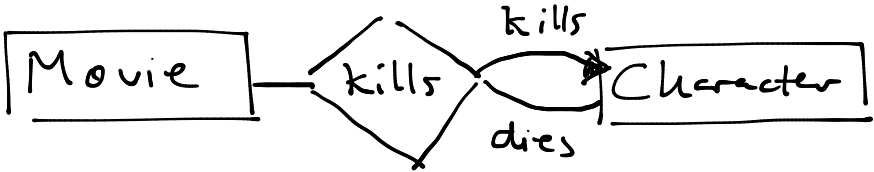
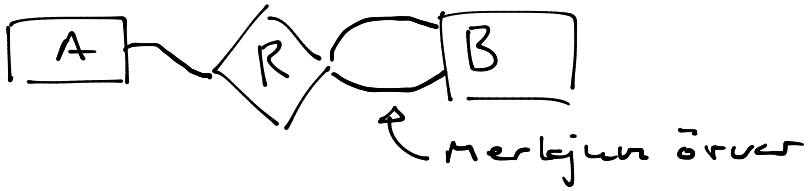
Marguð tengsl



~~Eg er hvern hluti sem er ekkert
öfugt~~

Fyrir hvern hluti sem er ekkert
er til
í mesta lagi einn hluti.

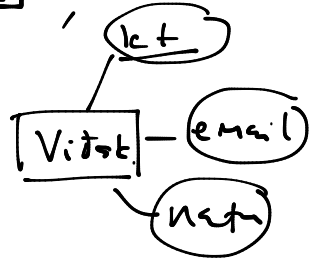
Sambandslinor



Skordur i E/R

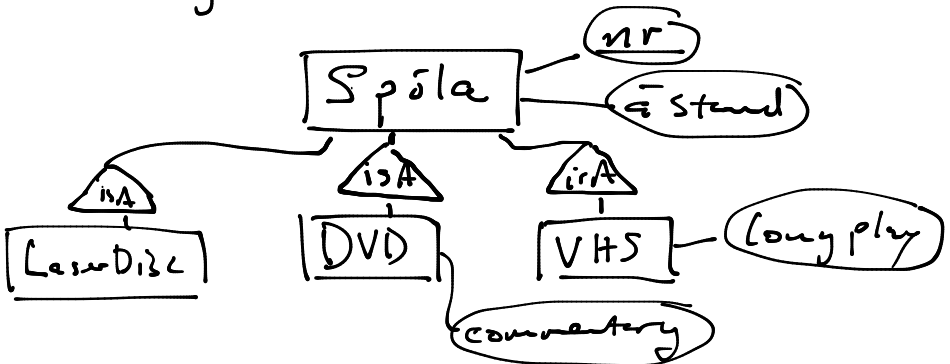
Fjöldatakræft, many-to-one
one-to-one

Lyklar eru eiginleikar,
undirstrikaðir



reglur

- öll einandi verða af hafa lykil.
- ef um marga er af velja, þá veljum við eina (Primary key)
- í erfðum / hst einigum verður lykill af vera í röt.

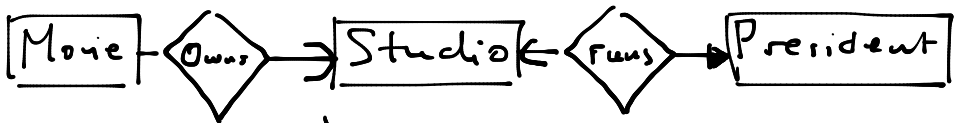


Heilleikastordur (Referential integrity)

$\bar{1} \in \mathbb{R}$ tákna ein ör \rightarrow

many-to-one, í mesta lagi einu.

Til að setja skilyrðið nákvæmlega
einu táknum \rightarrow



\leftarrow á studio

"ef við eyðum studio
þá eyðum við líka
president"

Förum frá E/R i Create Table

Einiendi \square / tengsl \diamond \rightarrow venst (töflu)

- Hver einiendi verður sín eigin töflu, eiginleikar \rightarrow dálkar, lykjar \rightarrow Primary Key.

- Tengsl verður töflu með lykkanum úr einindum sem þau tengja saman + sína eigin eiginleika.

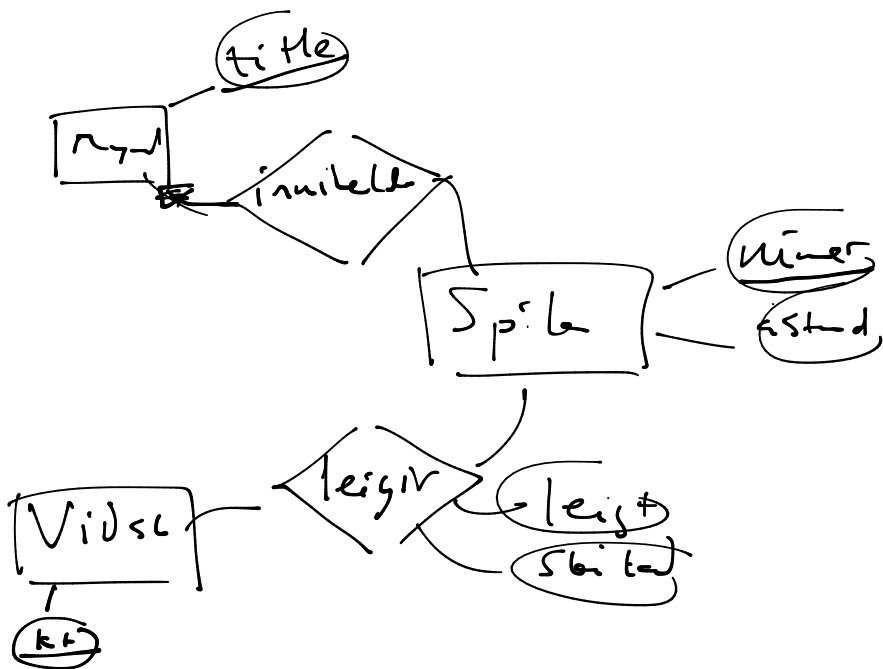
- many-to-one, sleppum töflu og höfum lykjar á \rightarrow inni í töflu.

Undantekningar

- hluteiniendi / erðvir

- veik einiendi (nozt)

- sameint tengsl við einiendi.



- Mynd (title PK, year)
 - Spöla (númer PK, ástand, title)
 - Víðskráning (kt PK, nafn, sími)
 - Leigir (kt, númer, leigt, skiladagur)
- lykill í Mynd er inniheldur tengla