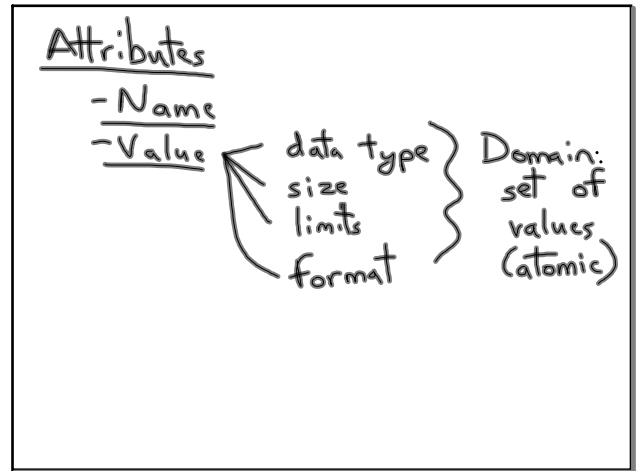
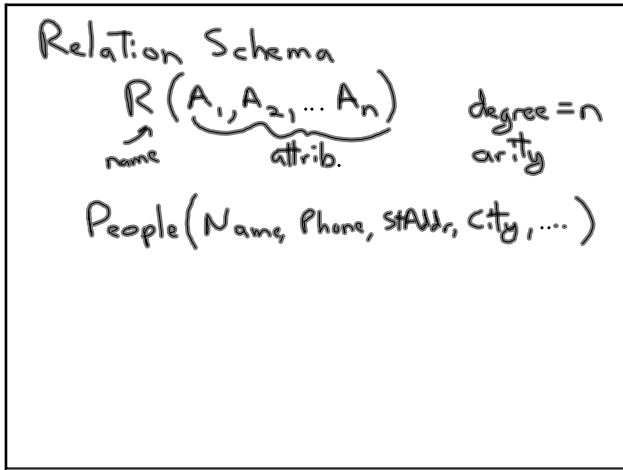


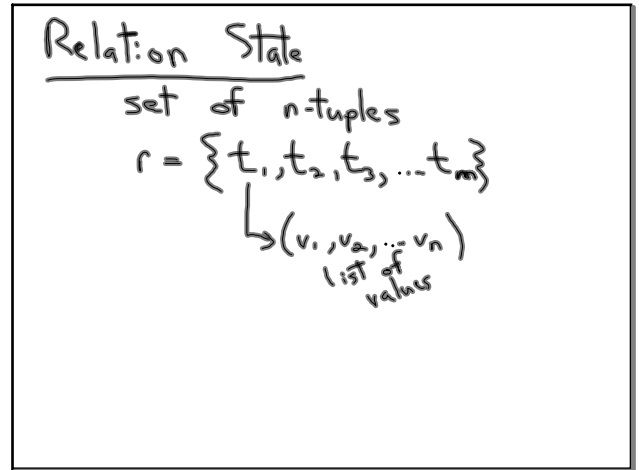
Sep 7-9:54 AM



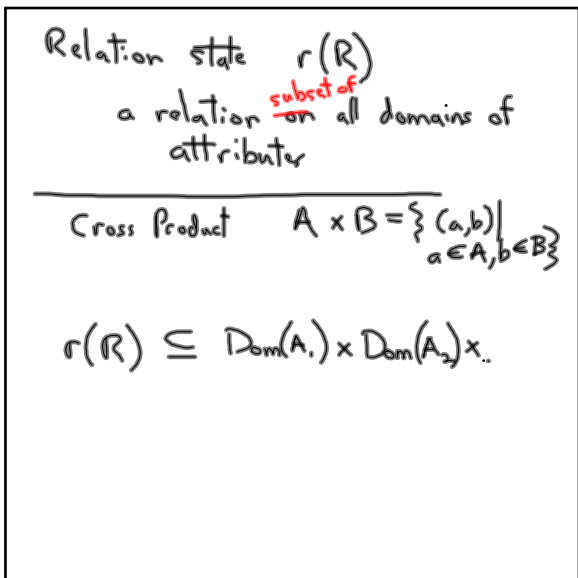
Sep 7-10:07 AM



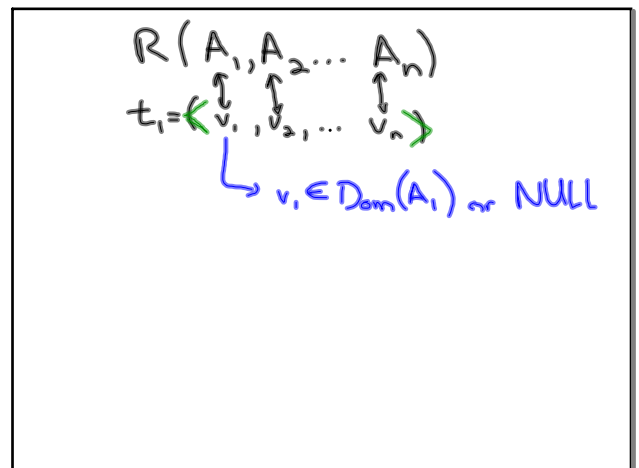
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Constraints
 → Schema-based
 → Application-based (business rules)

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Key constraint
 superkey - set of attributes such that no two tuples have the same values on those attrib.
 Course SK: {dept, course#, section, semester};
 Key: super key of R
 minimal
 Movies (Title, year, studio, producer, director, release_date, mId)
 candidate key: (Title, release_date) (mId)
 super key: (Title, relDat, studio, prod) (mId, studio)
 Primary key: candidate key
 - most important
 - underlined

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Referential Integrity
 Movies (mId, Title, ... directorId, ...)
 foreign key
 Directors (dId, name, dob, ...)
 if directorId has a value then Directors has a tuple where Movies.directorId = Director.dId

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foreign key of R_1 that references R_2
 - set of attrib. of R_1
 - must have same domain as PK of R_2
 - values in F.K. of R_1 must exist in PK of R_2 or be NULL

Sep 7-11:02 AM

1. input a phone #
 2. store it in a long variable } parse
 3. print it. } format
 (xx) yyy - zzzz
 str 13 char x 2 Bytes = 26 Bytes
 long 1 long x 8 Bytes = 8 Bytes

Sep 7-11:06 AM