

CMSC 424 – Database design
Lecture 8
SQL, constraints

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Next:

Integrity constraints

??

Prevent semantic inconsistencies

IC's

Predicates on the database

Must always be true (checked whenever db gets updated)

There are the following 4 types of IC's:

Key constraints (1 table)

e.g., 2 accts can't share the same acct_no

Attribute constraints (1 table)

e.g., accts must have nonnegative balance

Referential Integrity constraints (2 tables)

E.g. *bnames* associated w/ *loans* must be names of real branches

Global Constraints (n tables)

E.g., all *loans* must be carried by at least 1 *customer* with a *svngs* acct