

Final Review: CS445

Indexing

why is indexing important?

Hash vs Tree.

Describe an instance when you would use each.

Describe the downsides of each.

Relational Algebra

build an expression to solve a query

relate an expression to the use of indexes

Query Evaluation - how to use an index efficiently

SQLite

how is it different from MySQL

why use it?

Security

GRANT/REVOKE

privileges

encryption

Article

temporal data

size of data

what are relational databases especially good/bad at?

what is data inflation?

what is a column store and why might that be useful?

MapReduce

Web/DB architecture

browser/web server/php/db

who talks to whom? who produces what? why?

session

Transactions

properties

Normalization/Redundancy

DB Design steps

E-R diagrams

SQL queries

DBMS Features