MIDTERM REVIEW

MSiA 413
Week 5 Discussion

Vyas Alwar

Northwestern | McCORMICK SCHOOL OF ENGINEERING

Announcements

- Homework 3 Due Tomorrow
  - Make sure you turn it in!
- Midterm during class on Tuesday
  - Good luck!

Northwestern | ENGINEERING

Midterm Topics

- Bits and Representations
  - Numerical Types (Signed/Unsigned Integers, Floating Point, Fixed Point)
  - Text (ASCII, UTF-8)
  - Date and Time (Unix Epoch Seconds)
- Data Modeling
  - Primary and Foreign Keys
  - ER Diagrams with Crow's Foot Notation
  - ISA/HASA relationships and Aggregations
  - Database Normalization
  - Logical Design
- SQL Statements
  - SELECT Statements
  - Execution Order
  - GROUP BY and ORDER BY
  - Subqueries
  - INNER JOINs
  - UNIQUE Keys
- Memory Hierarchies

Northwestern | ENGINEERING

Any Questions?

Northwestern | ENGINEERING