

Final Review

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Goals

1. Where we've been
2. How to get out of here
3. Where you're going

Where we've been

An overview of existing systems; physical data organization; relational, network and hierarchical models; data manipulation languages, data definition languages; database protection; database application using Postgres.

Final Exam

- Monday, May 13th
 - from 3pm – 5pm
- Written test in classroom
- No hats or sunglasses

Final Material

1. Midterm Material
2. Data Sources
3. Connecting to DBs
4. Transactions
5. Functions
6. Indexes

1. Background
2. Schemas
3. ERDs
4. Relational Algebra
5. SQL
6. Normalization

Final Structure

Topic	Points Possible	Points Received
Vocabulary	10	
Analysis	10	
Implementation	20	
Design	40	
Total	80	

Vocabulary

Be prepared to identify definitions for the following concepts and terms associated with them.

Possible format: short answer, matching

Analysis

Be prepared to identify best practices regarding performance and design.

Possible format: short answer, matching, T/F

Design

Be prepared to provide ERDs for different relational database scenarios.

- Include data types
- Primary keys
- Foreign keys
- Relationship line with connectors
- Leverage best practices, such as normalization
 - Be ready to “prove” your designs conform to third normal form (3NF)

Programming

Be prepared to write simple to intermediate-level SQL queries using PostgreSQL standards.

- You will not be asked to write any Python code.

Be prepared to describe basic technical details around connecting to a database from an application.

Possible format: SQL code, short answer

Where we've been

- You have come so far over the years!
- It has been my privilege to work with you and watch you grow.
- I am very proud of you.

Thank you so much!

If you ever need anything, please ask!

- Career or school advice
- References and recommendations
- Help with other classes
- Swing by my office! WPEB 433

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Teaching you the CS **why's** so you can be CS **wise**.



Next Time

Final

- Monday, May 13th from 3pm – 5pm
- Written test in classroom
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