

Project Demo Requirement and Advice

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Tell one story

- Tell one logically coherent story
 - Application and business rules
 - Entity-relationship model
 - Relational model
 - Database implementation
 - Application implementation and questions answered
 - Model refinement: normalization and application improvement
 - Implementation refinement
 - Future work (application? Learning goals?)

Preparing presentation sides

- General guideline
- Course specific guideline

Audience cannot read

- One point per slide
- Sufficient space
- Slide space: head, important, repeating/non-important

Audience cannot see

- Color contrast
- Font family
 - sans-serif vs serif
- Font size
- Size of figure

Audience cannot hear

- Speak loudly or use microphone
- Engage the audience
 - Ask questions
 - Answer questions

Entity-Relational Model

- Include a table

Object	Number
Entity Sets (Total)	?
Weak Entity Sets	?
Relationship (Total)	?
Relationship (1-to-1)	?
Relationship (1-to-many)	?
Relationship (Many-to-many)	?
Weak relationship	?
IS-A relationship	?

Relational Model

- List schema
- Using the table (last slide) and the schema, discuss the methodology used

Database implementation

- Discuss
 - Choice of data types?
 - Primary keys and non-primary keys?
 - Constraints?

Application Design and Implementation

- Discuss application design
 - Model classes
 - View classes
 - Controller classes

Queries

- List a few important questions and their answers (queries)
- Demo the queries and the application

Normalization

- Discuss the process and the result of normalization

Database Implementation Improvement

- Views created and why?
- Index created and why?
- Transactions created and why?
- Stored procedure and functions?

Application Improvement

- How do improve the Java application after normalization?
- What about
 - Views, transactions, and stored procedures/functions?

Future Work

- Discuss two aspects
 - Improving database and application
 - Future learning goals (what else do you want to learn in a class or on your own)?