

Final Exam

Logical Database Design Exercises

Reference the provided [table relations](#).

For each relation, design a relational database to store the data in the most optimal way. Represent your design by drawing an Entity Relationship Diagram (ERD) in the space provided.

Each ERD should:

- Communicate with clarity the proper logical database design
- Represent all **entities**, and for each:
 - Represent any known or likely **attributes**
 - Denote each **primary key** attribute with (pk)
 - Denote each **foreign key** attribute with (fk)
- Represent all direct **relationships** between entities, and for each:
 - Denote relationship **cardinality**, for each direction
 - Optionally denote relationship optionality, for each direction
 - Optionally describe the relationship in English, for each direction

State assumptions as necessary to justify answers.

You may make scratch-notes, but only ERDs will be considered for evaluation.

1. Video Games (20% weight)

2. Health Inspection Scores (15% weight)

3. Blogging (20% weight)

4. Chronic Disease Indicators (20% weight)