

# Final Exam

## Section II: Logical Database Design

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); if the primary key is comprised of multiple attributes, denote each composite primary key attribute with (cpk)
  - Optionally 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. Company Blog (20% weight)

#### 4. Chronic Disease Indicators (20% weight)