

CS 327 – INTRODUCTION TO DATABASES

Spring 2025

PROJECT DELIVERABLE 2

Deliverable 2 must contain the goal of this phase of the project, and a logical design of the database (resulting by the mapping of an EER schema to a Relational schema). It must describe any revisions made to the specification described in Deliverable 1. It must further describe the problems encountered in Phase 2 and justify the solutions.

For Phases 2 and 3, you will not be responsible for designing/implementing code for functions that are outside of the domain of the VideoStore. For instance, you need not implement any system for hiring workers, or buying movies, or transferring movies between stores.

What is expected:

1. Outline the goals for this phase. Use the EER given by me as solution of the previous phase.
2. EER to Relational mapping:
 - Illustrate how you translated from the EER diagram to your relational schema. It should follow the EER to Relational algorithm.
 - Primary keys and foreign keys should be correctly identified
 - Show constraints (in words) over and above referential integrity constraints for each table. E.g., "a member cannot rent more than 10 movies and one player at a time".
3. Show SQL for creating and populating tables. You should write SQL command files that will create and populate each table in the next phase (Phase 3) of the project. You should be able to run these command files successfully in XAMPP with no errors and no integrity violations.
4. Identify any difficulties you may have had with this phase of the project.

This deliverable is due on Wednesday, April 2 before midnight.