

# CSE 305 -- Principles of Database Systems

Spring 2017

## First Assignment for the Database Programming Project

**Out: 1 February 2017**

**Due: 27 February 2017, 4:00pm, one per team**

**Hi. You must be a member of a team of three in order to complete this assignment. I am not able to accept an assignment if not completed as a team of three. If you do not belong to a team, please email me right away or let me know in class. Thank you for your cooperation!**

Design E-R and relational models for the database supporting your online movie rental web site. Your E-R and relational models should conform to the specification and requirements given in the [Project Specification Document](#). All work should be in Word, Visio, or some other appropriate document-preparation software.

Please hand in a hardcopy of your assignment in class on February 27. Make sure your documents are stapled together and your names are clearly indicated on the first page.

Your document is required to contain the following information:

- The name of your team (i.e. this should also be the name of your movie rental site).
- The names and e-mail addresses of the three team members
- E-R diagram capturing the conceptual design of your database system. Your E-R diagram should look like the ones in the course textbook. That is, rectangle shapes should be used for entity types, diamond shapes should be used for relationship types, etc.
- Brief rationale (in English) for your E-R model
- Relational model of your database system, based on your E-R design. Your relational model should be given in the form of SQL 92 or SQL 99 CREATE TABLE|VIEW|INDEX etc. statements. Try to use those features and only those features of SQL supported by SQL Server or MySQL.
- The SQL description of your relational model should include as many integrity constraints as possible, including domain, key, and referential integrity constraints.
- Brief rational (in English) for your relational model.
- Collaboration plan: briefly and precisely state who work on what aspects of the assignment. Try to follow the collaboration plan described in the [Project Specification Document](#).