

# CIS 3730

Example of Entity-Relationship Model

Chen's Notation

Mapping Ratios

# APPLICATION: GYM TRAINERS

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Suppose you are setting up a database for a gym. The gym hires trainers. Clients can sign up for multiple Sessions that need not be with the same trainer. The sessions can vary in length so the start and end times are recorded to assess how much a client owes. Different pieces of Equipment can be used in each session for different amounts of time, so a piece of equipment can be used in more than one session.

# EXAMPLE: TRAINERS

SUPPOSE YOU ARE SETTING UP A DATABASE FOR A GYM. THE GYM HIRES TRAINERS. CLIENTS CAN SIGN UP FOR MULTIPLE SESSIONS THAT NEED NOT BE WITH THE SAME TRAINER. THE SESSIONS CAN VARY IN LENGTH SO THE START AND END TIMES ARE RECORDED TO ASSESS HOW MUCH A CLIENT OWES. DIFFERENT PIECES OF EQUIPMENT CAN BE USED IN EACH SESSION FOR DIFFERENT AMOUNTS OF TIME, SO A PIECE OF EQUIPMENT CAN BE USED IN MORE THAN ONE SESSION.

