

Let's try: Subclassing (Movies)

Consider the following (partial) description of a movie scenario.

Each movie has a *title* and *year*; *title* and *year* together uniquely identify the movie. *Length* and *genre* are maintained for each movie.

Among the special kinds of movies, we might store in our database are cartoons and murder mysteries.

A cartoon has, in addition to the attributes and relationships of *Movies*, an additional relationship called *Voices* that gives us a set of stars who speak, but do not appear in the movie. Movies that are not cartoons do not have such stars.

Murder-mysteries have an additional attribute *weapon*.

Draw an E-R diagram to show the connections among the three entity sets: *Movies*, *Cartoons*, and *Murder-Mysteries*.

Let's try: Subclassing (Movies)

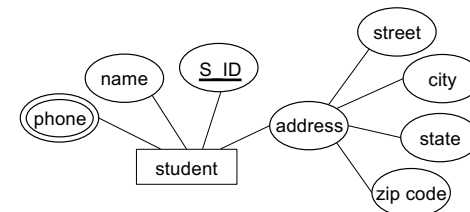
Draw an E-R diagram to show the connections among the 3 entity sets: *Movies*, *Cartoons*, and *Murder-Mysteries* (from previous page)

Recap: Entity vs. Attribute

What are main differences between entities and attributes?

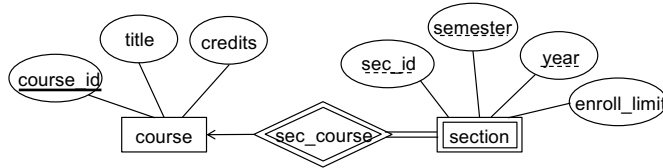
Let's try: E-R to Relations (1)

Convert the following E-R diagram into relations



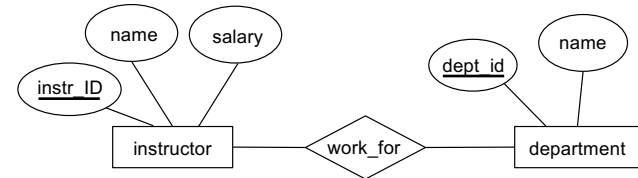
Let's try: E-R to Relations (2)

Convert the following E-R diagram into relations



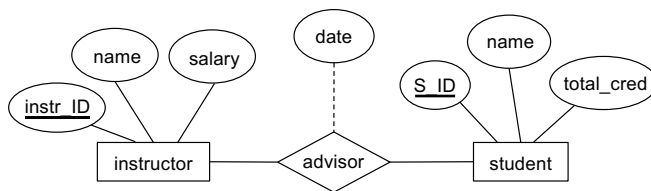
Let's try: E-R to Relations (3)

Convert the following E-R diagram into relations



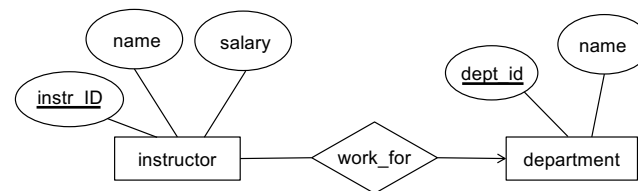
Let's try: E-R to Relations (4)

Convert the following E-R diagram into relations



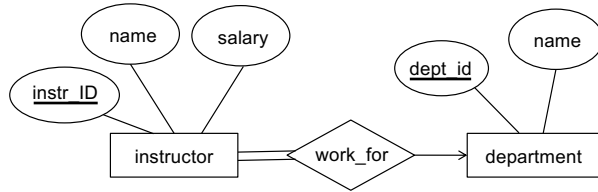
Let's try: E-R to Relations (5)

Convert the following E-R diagram into relations



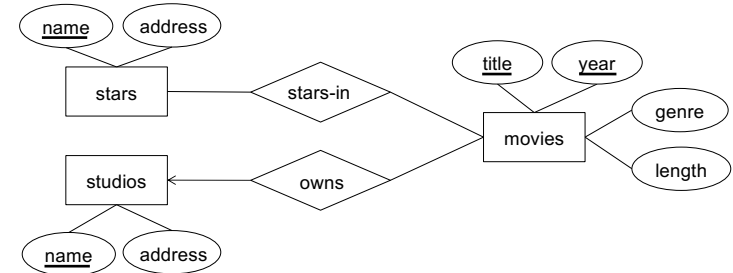
Let's try: E-R to Relations (6)

Convert the following E-R diagram into relations



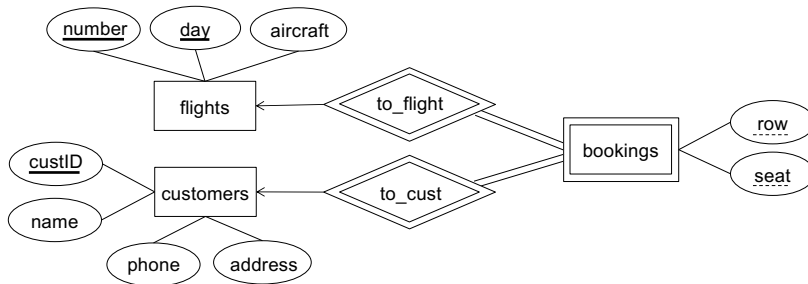
Let's try: E-R to Relations (7)

Convert the following E-R diagram into relations



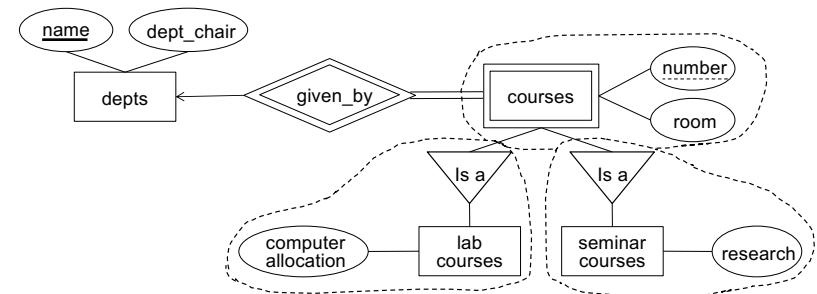
Let's try: E-R to Relations (8)

Convert the following E-R diagram into relations



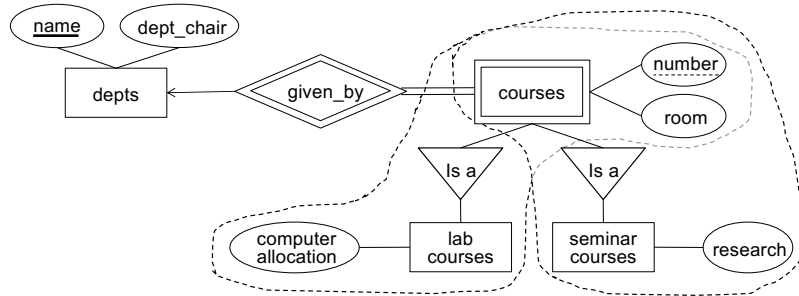
Let's try: Subclasses (option 1)

Convert the following E-R diagram into relations



Let's try: Subclasses (option 2)

Convert the following E-R diagram into relations



Let's try: Subclasses (option 3)

Convert the following E-R diagram into relations

