

# Project 3 Part C2

- Extension to the database
  - You landed the contract to make changes in the database that will protect the BoatClub from future lawsuits
  - Make sure that only sailors with the proper ratings can rent particular models of boats

# Project 3 Part C2

- What information do you need?
- What is missing from the database in order to answer that question?

# Project 3 Part C2

- Reverse engineer the database:
  - Think about the query you will write
  - What columns will you need ?
    - Sailor rating
    - Model
    - Model Rating

# Project 3 Part C2

- Where do we add the missing columns, model and rating?
  - What table has information about models?
    - None!
    - Add a new table, Model
      - mid (primary key)
      - model
      - rating
    - Add the relationship
      - Add mid to the records in the Boat table

# Project 3 Part C2

- Write your question that will protect the BoatClub from lawsuits:
  - What boats is Brutus able to rent?
  - Better: What boats does Brutus have the rating to rent
  - Best: What boats have a rating  $\leq$  Brutus's rating?

# Project 3 Part C2

- What fields do you need for the query?
  - Sailor.name
  - Sailor.rating
  - Boat.name
  - Model.rating
- What criteria?
  - Brutus
  - Sailor.rating >= Model.rating
- Create the query in Access

# Project 3 Part C2

- Think of a second question you could ask the database
  - Write the query in Access