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
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• 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 <= Brutus’s rating?
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– 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