Marriah Lewis
February 13, 2021
Lab 04
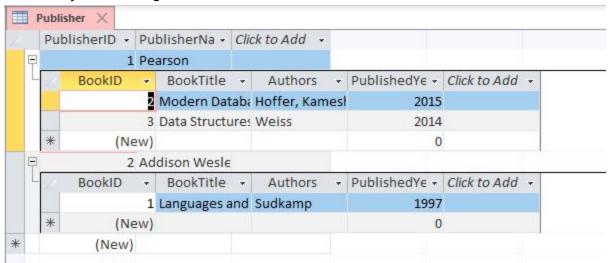

Part 1:
Case Study 1: Walkthrough case study ; no deliverable

Case Study 2: More bikes
- ❖ Starting with--2NF
  - ➢ OrderData(*Order Num*, Line, Item Number, Description, Qty Ordered, Price Each)
- ❖ 3NF
  - ➢ OrderData(*Order Num,* Line, Item Number, Qty Ordered)
  - ➢ OrderItem(*Item Number*, Description, Price Each)

Case Study 3: Books Again

Part 2 of Case Study 3. It's in 0NF because there are multivalued attributes in some of the author cells. In order to make it 3NF, we'd have to make it 1NF by removing the multivalued attributes (by adding an additional line for each author). Secondly, we'd convert it to 2NF by removing partial functional dependencies in order to reduce redundancies. Lastly, converting the table to 3NF by removing functional dependencies (adding foreign keys so if I run an update statement for the author of Modern Database Management, I only would update the author once).

Part 2: VidCast
- ❖ Start
  - ➢ Video (*VideoID*, Video Title, User Name, User Tier, Min Tier Followers, Stream Start, Video Duration (mins), Content Rating, Rating Description)
- ❖ 3NF
  - ➢ Video (*VideoID*, User Name)
  - ➢ User (*User Name*, User Tier, Min Tier Followers)

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- ➢ VideoData (*VideoID*, Video Title, Stream Start, Video Duration (mins), Content Rating)
- ➢ ContentRating (*Content Rating*, Rating Description)