

# Storytime with Blake

**EPPS 6354 - Information Management**  
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# Topic Introduction and Data Collection

**I wanted to find a solution to enjoy “on-demand” storytime with my niece Blake.**

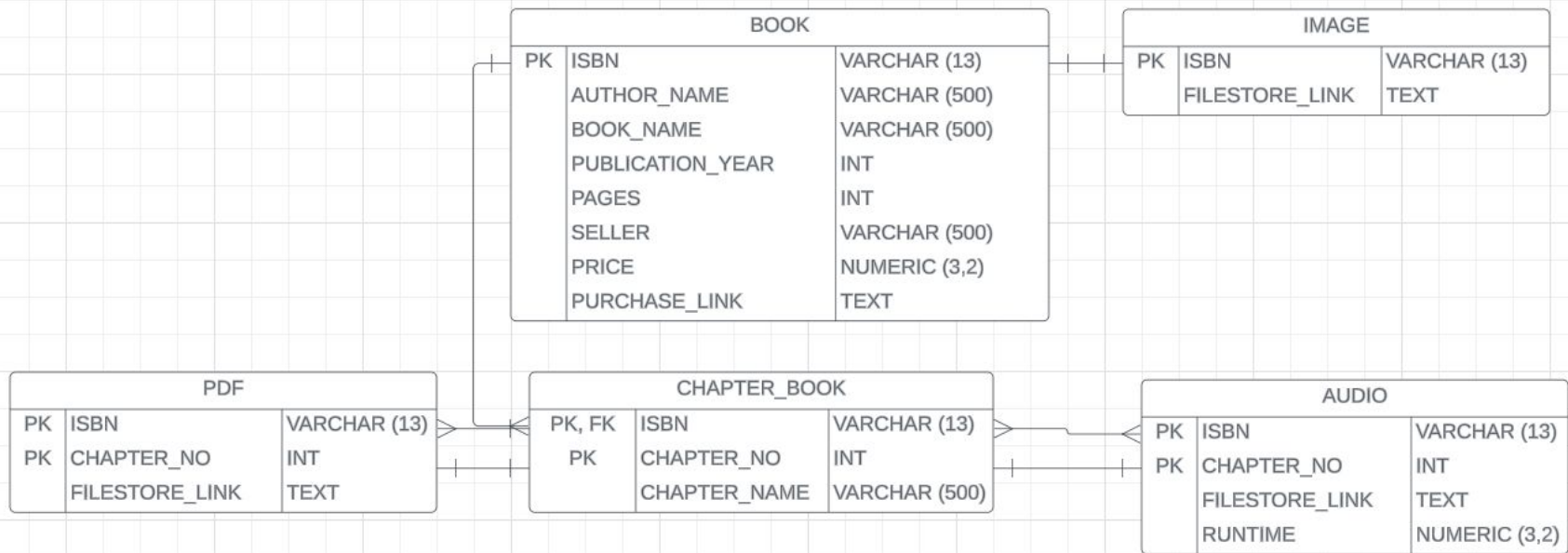
**What data I needed to accomplish this:**

- Book information (publication and purchase),
- Media (video, PDFs, and images).

**How did I collect my data?**

- Manually! Only 9 books used, so this didn't pose too great of a challenge.
- Created the videos used –housed on Dropbox.

# Schema (Relational Diagram)



# PostgreSQL and SQLite

- DDL
  - Created 5 tables from the previous page
- DML
  - Entered records for all 9 entries into all 5 tables.
- SQLite
  - Pasted all of the DDL and DML into DB Browser (once I confirmed the PostgreSQL was working correctly)
  - Created db file.

# Shiny App

The wheels came off a bit with this step...

My Dropbox links (video and images) did not work as intended.

Had to pivot to an if/else statement and a folder to hold images in my app folder.

Video embed also posed problems.

I couldn't find an example...and now I know why.

# Video Embed

```
table_df$Video URL' <- paste0("<a href='", table_df$VIDEO, "'>", input$titleID, "</a>")
table_df$Video <- c(paste0('<video controls><source src=', table_df$VIDEO, ' type="video/mp4"></video>'))
# table_df$VIDEO <- c(paste0('<iframe width="560" height="315" src=', "https://www.youtube.com/watch?v=bQG7tKMSJFc", ' frameborder="0" allow="accelerometer;
#autoplay; encrypted-media; gyroscope; picture-in-picture" allowfullscreen></iframe>'))
```

## Success!!

```
table_df$Video <- HTML(paste0(
  '<html>
<body>
  <iframe id="existing-iframe"
    width="100%" height="360"
    src="https://www.youtube.com/watch_popup?v=FmZCQfeWjeQ" ###This URL needs to change dynamically based on which link the user clicks in output$table
    frameborder="0"
  ></iframe>

  <script type="text/javascript">
    var tag = document.createElement(\'script\');
    tag.src = \'https://www.youtube.com/iframe_api\';
    var firstScriptTag = document.getElementsByTagName(\'script\')[0];
    firstScriptTag.parentNode.insertBefore(tag, firstScriptTag);

    var player;
    function onYouTubeIframeAPIReady() {
      player = new YT.Player(\'existing-iframe\');
    }
  </script>
</body>
</html>'
```



<https://oewp.shinyapps.io/StorytimeBlake/>