# PSTAT 10 Worksheet 8

## Setup

```
setwd('C:/Users/visha/OneDrive/Documents/School/Summer 2024/PSTAT 10/PSTAT10-Worksheets-and-HW')
library(RSQLite)
library(sqldf)
## Loading required package: gsubfn
## Loading required package: proto
library(DBI)
chinook_db <- dbConnect(SQLite(), "Chinook_Sqlite.sqlite")</pre>
Problem 1
  1.
dbGetQuery(chinook db, "SELECT GenreId, sum(milliseconds)/60000
                        FROM Track
                        WHERE GenreId = 2")
     GenreId sum(milliseconds)/60000
## 1
dbGetQuery(chinook_db, "SELECT Genre.Name, Genre.GenreId, sum(milliseconds)/60000
                        FROM Track JOIN Genre
                        ON Track.GenreId = Genre.GenreId
                        WHERE Genre.GenreId = 2")
     Name GenreId sum(milliseconds)/60000
## 1 Jazz
                2
  3.
dbGetQuery(chinook_db, "SELECT Genre.Name, Genre.GenreId, sum(milliseconds)/60000
                        FROM Track JOIN Genre
                        ON Track.GenreId = Genre.GenreId
                        GROUP BY Genre.GenreId")
                    Name GenreId sum(milliseconds)/60000
##
## 1
                    Rock
                               1
                                                     6137
## 2
                    Jazz
                               2
                                                      632
                               3
## 3
                   Metal
                                                     1930
## 4 Alternative & Punk
                               4
                                                     1296
## 5
           Rock And Roll
                               5
                                                       26
```

364

2247

238

183

Blues

Latin

Reggae

Pop

## 6 ## 7

## 8

## 9

6

8

```
## 10
               Soundtrack
                                 10
                                                           175
## 11
               Bossa Nova
                                                            54
                                 11
## 12
           Easy Listening
                                 12
                                                            75
## 13
              Heavy Metal
                                 13
                                                           138
## 14
                 R&B/Soul
                                 14
                                                           223
       Electronica/Dance
## 15
                                 15
                                                           151
## 16
                     World
                                 16
                                                           104
## 17
              Hip Hop/Rap
                                 17
                                                           103
## 18
          Science Fiction
                                 18
                                                           568
## 19
                 TV Shows
                                 19
                                                          3324
## 20
        Sci Fi & Fantasy
                                 20
                                                          1261
## 21
                                 21
                                                         2746
                     Drama
## 22
                    Comedy
                                 22
                                                           449
## 23
              Alternative
                                 23
                                                           176
## 24
                                 24
                                                           362
                Classical
## 25
                     Opera
                                 25
                                                             2
```

#### Problem 2

# ## 1 4 Margaret Park 22 Heather Leacock

## Problem 3

1.

Customers are from 24 different countries.

2.

```
## Title
## 1 General Manager
## 2 Sales Manager
## 3 Sales Support Agent
## 4 IT Manager
## 5 IT Staff
```

3. No, distinct was not necessary here. GenreId is the primary key of Genre, and in order to maintain entity integrity every row would need to have a *unique* value for GenreId - thus every value for GenreId is inherently distinct.