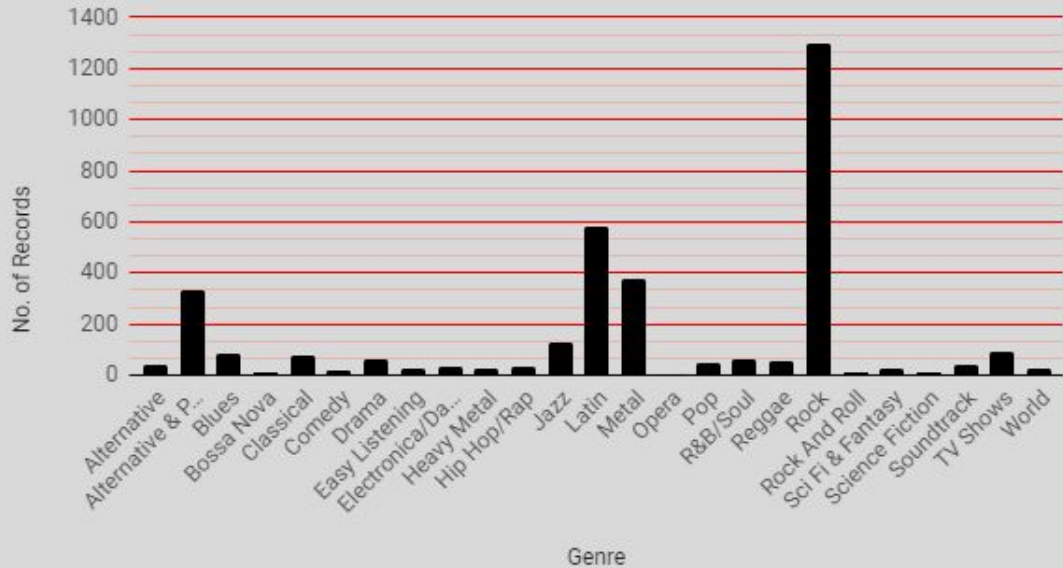# SPANDAN BANERJEE

SQL Project

Udacity

Data Foundations Nanodegree

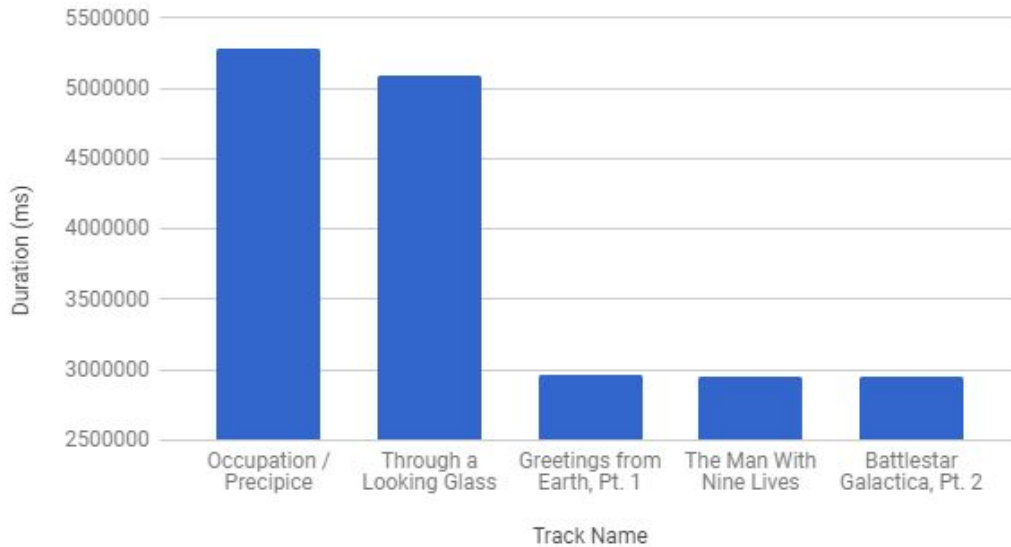# Which is the dominant genre?

No. of Records vs Genre

The top genres present in the database are Rock, Latin, Metal, Alternative & Punk and Jazz respectively. **37%** of the records are of the **Rock** genre (treating Rock 'n' Roll and other sub-genres as different genres), with a whooping **1297 records** solely, making it the dominant genre.

Knowledge: JOINing using WHERE, ALIAS, GROUPing BY, Pie Charts

What is the longest track?

Duration (ms) vs Track Name

The longest track is '**Occupation / Precipice**' from the album 'Battlestar Galactica, Season 3' by Battlestar Galactica with a duration of about **01:28:07** or 5286953 milliseconds.

Knowledge: JOIN, ALIAS, MAX, Bar Graphs

What is the age distribution of the Employees?

Name	Age
Andrew	54
Nancy	58
Jane	43
Margaret	69
Steve	51
Michael	43
Robert	46
Laura	48
Mean	51.5
Median	49.5
Mode	43
Minimum	43
Maximum	69
1st Quartile (Q1)	45.25
3rd Quartile (Q3)	55

At **69** years of age, **Margaret** is the **oldest** employee, while **Jane**, at **43**, is the **youngest** member. The **average** age is **51.5** **years**. It is interesting to note that Andrew, being the head of the employees (*from 'ReportsTo' column*) is not the oldest member.

The **box plot** for the age distribution is shown on the next slide.

Knowledge: CASE, JOIN, DATE, ALIAS, Box Plots

BOX PLOT FOR EMPLOYEE AGES

Which artists make the maximum profit in sales?

Best-Selling Artists

Iron Maiden is the top-selling artist (**$138.6** in sales) from the given customers' orders. **U2** and **Metallica** follow it. The graph for **top 10** best-selling artists from the DB has been given. **$14.11** is the **average** sale and **$7.92** is the **median** value. **$0.99** is the most common sales figure (**mode**). Artists with **no sale** have been **excluded** from consideration.

Knowledge: GROUPing and ORDERing BY, JOINing using WHERE, ALIAS

References

Websites:

- **Google**
- **GitHub**
- **Slack**
- **Stack Overflow**
- **W3 Schools**

Books:

- **Data Analysis Using SQL and Excel (Gordon S. Linoff)**
- **SQL All–in–One For Dummies (Allen G. Taylor)**