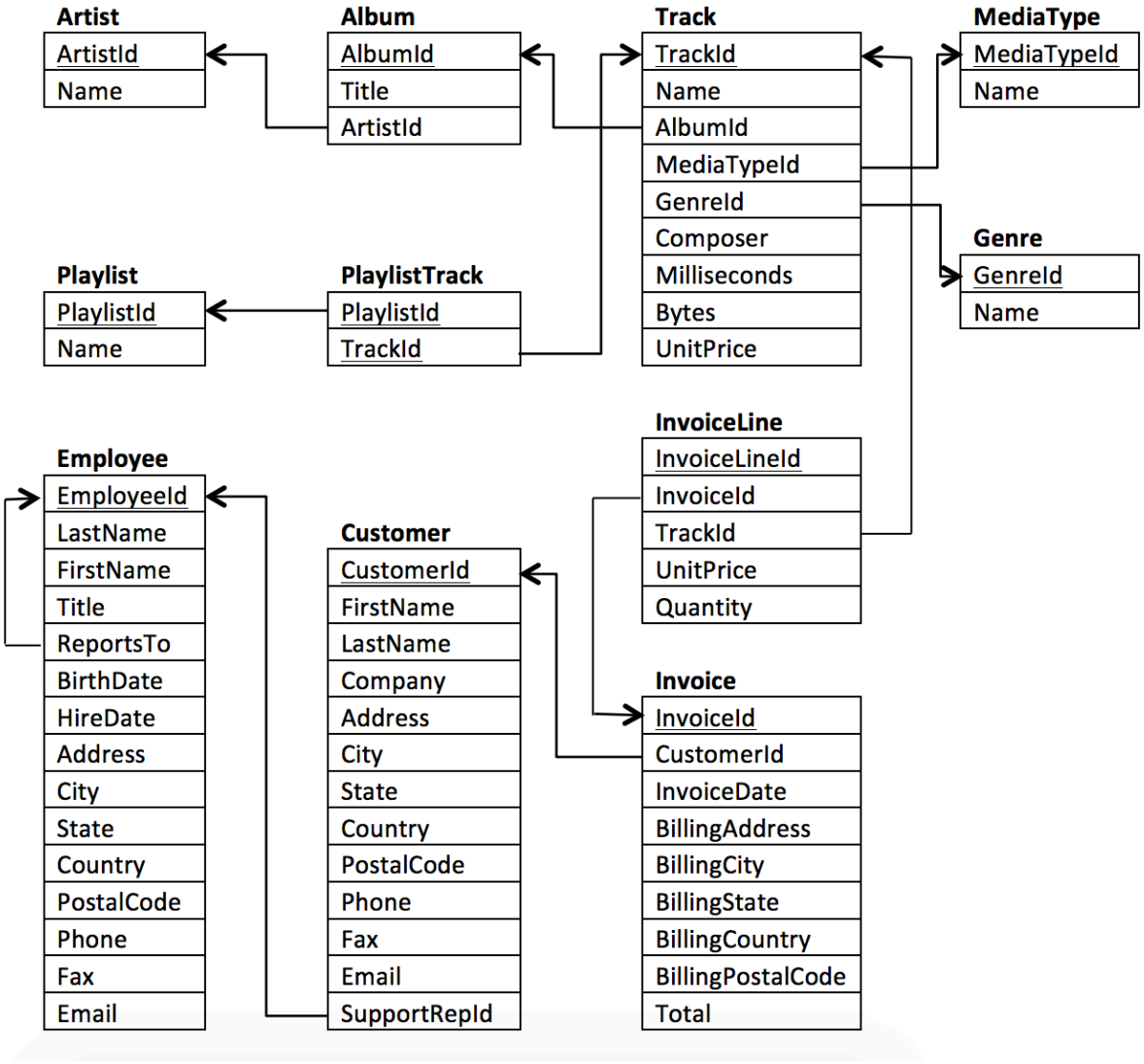
Project 3 – SQL Project

Project Introduction

In this project, you will query the Chinook Database. The Chinook Database holds information about a music store. For this project, you will be assisting the Chinook team with understanding the media in their store, their customers and employees, and their invoice information. To assist you in the queries ahead, the schema for the Chinook Database is provided below. You can see the columns that **link** tables together via the arrows.



All of the below instructions are discussed in detail as we work through this lesson on your way to completing this project. The below serves as a quick reference of what you will be doing as you progress through the completion of this project.

Instructions

- You will need to follow the instructions on the next three concepts to get the Chinook database up and running on your own machine, and check that it is set up correctly. There will be two parts to this project.

1. The first part is a series of questions that will assure you have mastered the main concepts taught throughout the SQL lessons. **Though these questions will not be "graded" by a reviewer, they will help you self assess.**

2. The second part is a **presentation**. Similar to the first project, there isn't a 'right answer' for the second portion of the project. You have the ability to be creative in the questions you ask. You will then write a SQL query to pull the data needed to successfully answer your question. Use the pulled data to build a visual (bar chart, histogram, or another plot) that answers your question. The essentials of your project submission are discussed in the next sections. **In order to review your presentation, you will need to save your slides as a `PDF`.**

Project submission

Presentations

To pass this project follow the below instructions to create a presentation.

Your presentation should include:

- Four slides
- One visualization per slide
- A 1-2 sentence explanation of each slide
- The SQL query used to create the data used in the visualization.
  Note: you may choose to use queries that were motivated by the questions on the previous concepts, or you may choose four entirely new questions. However, if you use any of the previous queries, they must be those that had a JOIN as stated in the Rubric.
  The submission template is a Google Slides file. Make a copy of the submission template to complete your project. We suggest you use the layout provided, though it is not a requirement.

Queries

Please include a text file that includes each of the queries used to create the visualizations. You should format your queries for readability, use this tool to help **http://www.sql-format.com/**. In a plain text file (use notepad, notepad++, or **atom**).

SQL Queries

CRITERIA	MEETS SPECIFICATIONS
The student can write error-free SQL queries.	All SQL queries run without errors and produce the intended results.
The student can use joins correctly in SQL queries.	Each SQL query needs to include one or more explicit join.
The student can use aggregations correctly in SQL queries.	Each SQL query needs to include one or more aggregation. This could be a **COUNT**, **AVG**, **SUM**, or other aggregation.

```
/* Query 1 - query used for first insight */
SELECT t1.col, COUNT(*) ct
FROM table t1
JOIN table2 t2
ON t1.col = t2.col
GROUP BY t1.col;

/* Query 2 - the query used for second insight*/
SELECT t1.col, COUNT(*) ct
FROM table t1
JOIN table2 t2
ON t1.col = t2.col
GROUP BY t1.col;
```

Put your text file and presentation in a folder and zip it. Then submit the zipped folder for your project.

Project Rubric - https://review.udacity.com/#!/rubrics/1061/view