SQL Homework Assignment

# Part 1: Querying the World and Chinook Databases

In this section, you’ll work with two databases: World and Chinook. Use these databases to answer the following questions. This section includes both easy and medium-level questions.

Access the database @ ds2002.org

Use your computeID and PW to login. Please chance you password.

When you are done, you will submit one file with your sql statements and the pattern <computeid>sql\_hw.sql for the file name. Put it in your GitHub repo. Share that Repo with ME and your TA.

You don’t need to output your results…just your SQL. We will run them and check.

## World Database Questions:

### Easy:

1. List all countries in South America.

2. Find the population of 'Germany'.

3. Retrieve all cities in the country 'Japan'.

### Medium:

4. Find the 3 most populated countries in the 'Africa' region.

5. Retrieve the country and its life expectancy where the population is between 1 and 5 million.

6. List countries with an official language of 'French'.

## Chinook Database Questions:

### Easy:

7. Retrieve all album titles by the artist 'AC/DC'.

8. Find the name and email of customers located in 'Brazil'.

9. List all playlists in the database.

### Medium:

10. Find the total number of tracks in the 'Rock' genre.

11. List all employees who report to 'Nancy Edwards'.

12. Calculate the total sales per customer by summing the total amount in invoices.

# Part 2: Create Your Own Database

In this section, you will design and create a new database, insert some data, and write queries to extract information from it. You can use the database with YOUR compute ID as the name of the database. You have write privileges there.

1. \*\*Design Your Database:\*\* Create a database for a small business of your choice, with at least 3 tables with appropriate columns.

2. \*\*Create the Tables:\*\* Write SQL statements to create the tables for your database. Ensure that each table has a primary key and relationships where appropriate.

3. \*\*Insert Data:\*\* Insert at least 5 rows of data into each of the tables you created.

4. \*\*Write Queries:\*\* Write at least 3 queries to extract data from your new database.