

# Exercises for MySQL Practice

## Exercise 1: Creating and Using a Database

1. Create a database named `schoolDB`.
2. Switch to the `schoolDB` database using the appropriate command.
3. Verify that the database has been created by listing all databases.

## Exercise 2: Creating Tables

1. Create a table named `students` with the following structure:
  - `studentID` (INT)
  - `name` (VARCHAR(50))
  - `age` (INT)
  - `grade` (VARCHAR(10))
  - `enrollmentYear` (INT)
2. Create another table named `teachers` with the following structure:
  - `teacherID` (INT)
  - `name` (VARCHAR(50))
  - `subject` (VARCHAR(30))
  - `hireYear` (INT)

## Exercise 3: Inserting Data

1. Insert the following data into the `students` table:

studentID	name	age	grade	enrollmentYear
1	Alice	14	9th	2022
2	Bob	15	10th	2021
3	Charlie	13	8th	2023

2. Insert the following data into the `teachers` table:

teacherID	name	subject	hireYear
1	Mr. Smith	Mathematics	2019
2	Ms. Johnson	Science	2020
3	Mrs. Brown	English	2018

## Exercise 4: Viewing Data

1. Write a query to view all data from the `students` table.
2. Write a query to view all data from the `teachers` table.

## Exercise 5: Dropping Tables and Databases

1. Drop the `students` table.
2. Drop the `teachers` table.
3. Drop the `schoolDB` database.

## Bonus Exercise: Combining Commands

1. Create a new database named `libraryDB`.
2. Create a table named `books` with the following structure:
  - `bookID` (INT)
  - `title` (VARCHAR(50))
  - `author` (VARCHAR(50))
  - `genre` (VARCHAR(20))
  - `publicationYear` (INT)
3. Insert the following data into the `books` table:

bookID	title	author	genre	publicationYear
1	The Great Gatsby	F. Scott	Fiction	1925
2	1984	George Orwell	Dystopian	1949
3	Moby Dick	Herman Melville	Adventure	1851

4. Write a query to view all books published before the year 1950.

