**SQL COMMANDS**

*CREATION/USAGE COMMANDS:*

CREATE DATABASE ProgrammingPal;

USE ProgrammingPal;

CREATE TABLE languages(languageID INT AUTO\_INCREMENT,language VARCHAR(15),PRIMARY KEY(languageID));

CREATE TABLE programmers(programmerID INT AUTO\_INCREMENT,name VARCHAR(20) NOT NULL,languageID INT NOT NULL,PRIMARY KEY(programmerID),FOREIGN KEY(languageID) REFERENCES languages(languageID));

CREATE TABLE lessons(lessonID INT AUTO\_INCREMENT,programmerID INT NOT NULL,languageID INT NOT NULL,userID INT NOT NULL,date DATETIME NOT NULL,price DOUBLE NOT NULL,PRIMARY KEY(lessonID), FOREIGN KEY(programmerID) REFERENCES programmers(programmerID),FOREIGN KEY(languageID) REFERENCES languages(languageID));

*FILLING DATA COMMANDS:*

INSERT INTO languages(language) values(“Java”),(“C”),(“HTML”),(“SQL”),(“Bash”),(“Python”);

~~INSERT INTO programmers(programmerID, name, languageID) values(1, “Luke”, 1),(1, “Luke”, 2),(1, “Luke”, 3),(2, “Mitch”, 1),(2, “Mitch”, 4)(3, “Ryan”, 5),(4, “Gearoid”, 1);~~

INSERT INTO programmers(name, languageID) values(“Luke”, 1),(“Mitch”, 1),(“Ryan”, 5),(“Gearoid”, 1);

*DATA RETRIEVAL/REMOVAL:*

DROP TABLE lessons;

DROP TABLE programmers;

DROP TABLE languages;

SHOW TABLES;

SELECT \* FROM programmers;

SELECT \* FROM languages;

SELECT \* FROM lessons;

SELECT p.programmerID, p.name, p.languageID, l.language FROM programmers p LEFT JOIN languages l ON p.languageID = l.languageID;