**SQL COMMANDS**

*EXPORT/IMPORT:*

mysqldump –u root –p ProgrammingPal > ProgrammingPal.sql

mysql –u root –p ProgrammingPal < ProgrammingPal.sql

*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, PRIMARY KEY(programmerID));

CREATE TABLE prog\_langs(programmerID INT NOT NULL,languageID INT NOT NULL,FOREIGN KEY(programmerID) REFERENCES programmers(programmerID),FOREIGN KEY(languageID) REFERENCES languages(languageID));

CREATE TABLE users(userID INT AUTO\_INCREMENT,username VARCHAR(20) NOT NULL,PRIMARY KEY(userID));

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),FOREIGN KEY(userID) REFERENCES users(userID));

*FILLING DATA COMMANDS:*

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

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

INSERT INTO prog\_langs(programmerID, languageID) values(1,1),(1,2),(1,3),(2,1),(2,4),(2,5),(3,2),(3,3),(4,5);

INSERT INTO users(username) values(“Jeff12”),(“DurujiH”),(“Alice456”);

INSERT INTO lessons() values();

*DATA RETRIEVAL/REMOVAL:*

DROP TABLE languages;

DROP TABLE programmers;

DROP TABLE prog\_langs;

DROP TABLE users;

DROP TABLE lessons;

DELETE FROM programmers WHERE name=”abcde”;

SHOW TABLES;

SELECT \* FROM languages;

SELECT \* FROM programmers;

SELECT \* FROM prog\_lang;

SELECT \* FROM users;

SELECT \* FROM lessons;

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

SELECT pl.programmerID, pl.languageID, p.name, l.language FROM prog\_langs pl LEFT JOIN

Programmers p ON pl.programmerID = p.programmerID LEFT JOIN languages l ON pl.languageID = l.languageID;