CS386 Software Engineering

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Database Setup Document

<https://github.com/BreezeProject/Project-Breeze>

**Database Setup**

**Introduction**

The purpose of this document is to guide the setup administrator in creating the underlying sql database that is required for Breeze to run. Thanks to sql’s nature as a language, the code given in the section below is only needed to run once each update, as it installs a new database. Before running this code, you must DROP all tables inside your database, otherwise only partial installation may happen. We recommend backing up all crucial database and re-inputting it again once the install has run.

**Code:**

CREATE TABLE classes (

ID int(10) NOT NULL,

Name text NOT NULL,

TeacherID text NOT NULL,

Location text NOT NULL,

MaxNumStudents text NOT NULL,

StartTime text NOT NULL,

EndTime text NOT NULL,

DaysOfWeek text NOT NULL,

Desciption text NOT NULL

) ENGINE=InnoDB DEFAULT CHARSET=latin1;

CREATE TABLE classlists (

ID int(11) NOT NULL,

ClassID text NOT NULL,

StudentID text NOT NULL

) ENGINE=InnoDB DEFAULT CHARSET=latin1;

CREATE TABLE users (

userID text NOT NULL,

userName text NOT NULL,

userPassword text NOT NULL,

userEmail text NOT NULL,

userType text NOT NULL

) ENGINE=InnoDB DEFAULT CHARSET=latin1;

ALTER TABLE classes

ADD PRIMARY KEY (ID);

ALTER TABLE classlists

ADD PRIMARY KEY (ID);

ALTER TABLE classes

MODIFY ID int(10) NOT NULL AUTO\_INCREMENT, AUTO\_INCREMENT=0;

ALTER TABLE classlists

MODIFY ID int(11) NOT NULL AUTO\_INCREMENT, AUTO\_INCREMENT=0;

INSERT INTO classes (`Name`, TeacherID, Location, MaxNumStudents, StartTime, EndTime, DaysOfWeek, Desciption) VALUES

('Example Class 1', 'Teacher1', 'Example Location', '40', '12:00', '14:00', 'M W F', 'Example Description'),

('Example Class 2', 'Teacher1', 'Example Location2', '40', '10:00', '12:00', 'T Th', 'Example Description');

INSERT INTO classlists (ClassID, StudentID) VALUES

('1', 'Teacher1'),

('2', 'Teacher1'),

('1', 'ex1'),

('2', 'ex1'),

('1', 'ex2'),

('2', 'ex2');

INSERT INTO users (userID, userName, userPassword, userEmail, userType) VALUES

('Root\_Admin', 'Admin', '123', 'admin@admin.com', 'Admin'),

('Teacher1', 'Teacher1', '123', 'teacher1@teacher1.com', 'Teacher'),

('ex1', 'John Doe', '123', 'JohnDoe@JohnDoe.com', 'Student'),

('ex2', 'Jane Doe', '123', 'JaneDoe@JaneDoe.com', 'Student');

CREATE TABLE upload (

id INT NOT NULL AUTO\_INCREMENT,

name VARCHAR(30) NOT NULL,

type VARCHAR(30) NOT NULL,

size INT NOT NULL,

content MEDIUMBLOB NOT NULL,

text VARCHAR(500) NOT NULL,

PRIMARY KEY(id)

);

CREATE TABLE gradebook (

id INT NOT NULL AUTO\_INCREMENT,

name VARCHAR(100) NOT NULL,

maxPoints INT NOT NULL,

studentGrade INT NOT NULL,

classId INT NOT NULL,

studentId INT NOT NULL,

PRIMARY KEY(id)

);

CREATE TABLE `quizes` (

`ID` int(10) NOT NULL,

`classID` text NOT NULL,

`teacherID` text NOT NULL,

`Questions` text NOT NULL,

`Answers` text NOT NULL

);

ALTER TABLE `quizes`

ADD PRIMARY KEY (`ID`);

ALTER TABLE `quizes`

MODIFY `ID` int(10) NOT NULL AUTO\_INCREMENT, AUTO\_INCREMENT=1;

INSERT INTO `quizes` (`ID`, `classID`, `teacherID`, `Questions`, `Answers`) VALUES

(1, '1', 'Teacher1', 'TestQuestion, Answers: (1,2,3);TestQuestion, Answers: (1,2,3);TestQuestion, Answers: (1,2,3);TestQuestion, Answers: (1,2,3);TestQuestion, Answers: (1,2,3)', 'Answer 1;Answer 2;Answer 3;Answer 4;Answer 5'),

(2, '1', 'Teacher1', 'test1;test2;test3', 'test1;test2;test3'),

(3, '1', 'Teacher1', 'test1;test2;test3;test4;test5', '1;2;3;4;5');