

```
DROP TABLE student_question;  
DROP TABLE question;  
DROP TABLE student;  
DROP TABLE quiz;  
DROP TABLE teacher;
```

```
CREATE TABLE teacher (  
    teacherID INT PRIMARY KEY AUTO_INCREMENT,  
    firstName VARCHAR(80) NOT NULL,  
    lastName VARCHAR(80) NOT NULL,  
    email VARCHAR(80) NOT NULL UNIQUE,  
    password VARCHAR(12) NOT NULL,  
    userType VARCHAR(1) DEFAULT 'T'  
);
```

```
CREATE TABLE student (  
    studentID INT PRIMARY KEY AUTO_INCREMENT,  
    firstName VARCHAR(80) NOT NULL,  
    lastName VARCHAR(80) NOT NULL,  
    email VARCHAR(80) NOT NULL UNIQUE,  
    password VARCHAR(12) NOT NULL,  
    userType VARCHAR(1) DEFAULT 'S'  
);
```

```
CREATE TABLE quiz (  
    quizID INT PRIMARY KEY AUTO_INCREMENT,  
    name VARCHAR(80) NOT NULL,  
    numQuestion INT NOT NULL DEFAULT 0,  
    dateCreated DATETIME NOT NULL,  
    teacherID INT,  
    FOREIGN KEY (teacherID)  
        REFERENCES teacher(teacherID)  
);
```

```
CREATE TABLE question (  
    questionID INT PRIMARY KEY AUTO_INCREMENT,  
    type VARCHAR(2) NOT NULL,  
    question VARCHAR(80) NOT NULL,  
    answer VARCHAR(80) NOT NULL,  
    choiceA VARCHAR(80) DEFAULT NULL,  
    choiceB VARCHAR(80) DEFAULT NULL,  
    choiceC VARCHAR(80) DEFAULT NULL,  
    quizID INT NOT NULL,  
    FOREIGN KEY (quizID)
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REFERENCES quiz (quizID)
ON DELETE CASCADE
);
```

```
CREATE TABLE student_question (
    studentID INT NOT NULL,
    questionID INT NOT NULL,
    studentAnswer VARCHAR(80) NOT NULL,
    questionPT INT NOT NULL DEFAULT 1,
    dateTaken DATETIME NOT NULL,
    quizID INT NOT NULL,
    PRIMARY KEY (studentID, questionID),
    FOREIGN KEY (studentID)
        REFERENCES student(studentID)
        ON DELETE CASCADE,
    FOREIGN KEY(quizID)
        REFERENCES quiz(quizID),
    FOREIGN KEY(questionID)
        REFERENCES question(questionID)
);
```

```
INSERT INTO teacher (firstName, lastName, email, password)
VALUES(
    'Bridget', 'Griffin', 'bgriffin@school.com', 'bgriffin'
),
(
    'Louis', 'Hall', 'llhall@school.com', 'llhall'
),
(
    'Joshua', 'Kemp', 'jkemp@school.com', 'jkemp'
),
(
    'Kate', 'Lee', 'klee@school.com', 'klee'
);
```

```
INSERT INTO student (firstName, lastName, email, password)
VALUES(
    'Sam', 'Norris', 'snorris@study.com', 'snorris'
),
(
    'Jay', 'Chong', 'jchong@study.com', 'jchong'
),
(
    'Will', 'Vaughn', 'wvaughn@study.com', 'wvaughn'
);
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    ),
    (
        'Elizabeth', 'Wilson', 'ewilson@study.com', 'ewilson'
    );

INSERT INTO quiz (name, dateCreated, teacherID)
VALUES(
    'Math 101', '1999-01-22 01:22:33', (SELECT teacherID FROM teacher WHERE firstName =
'Joshua' AND lastName = 'Kemp')
),
(
    'Precalc', '1999-01-23 01:22:33', (SELECT teacherID FROM teacher WHERE firstName =
'Joshua' AND lastName = 'Kemp')
),
(
    'APHist Week 1', '1999-01-24 01:22:33', (SELECT teacherID FROM teacher WHERE
firstName = 'Kate' AND lastName = 'Lee')
),
(
    'US_Civ', '1999-01-25 01:22:33', (SELECT teacherID FROM teacher WHERE firstName =
'Kate' AND lastName = 'Lee')
),
(
    'Social Psych', '1999-01-26 01:22:33', (SELECT teacherID FROM teacher WHERE firstName =
'Louis' AND lastName = 'Hall')
);

INSERT INTO question (type, question, answer, choiceA, choiceB, choiceC, quizID)
VALUES(
    'MC', 'What is 2 * 8 + 2 ?', '18', '16', '20', '14', (SELECT quizID FROM quiz WHERE name =
'Math 101')
),
(
    'MC', 'What is 9 * 9 ?', '81', '18', '72', '99', (SELECT quizID FROM quiz WHERE name = 'Math
101')
),
(
    'MC', 'What is 7 - 2 + 5 ?', '10', '0', '14', '17', (SELECT quizID FROM quiz WHERE name =
'Math 101')
),
(
    'MC', 'What is 6 + 6 * 4 ?', '30', '48', '16', '24', (SELECT quizID FROM quiz WHERE name =
'Math 101')
),

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(
    'SA', 'What is  $6 * 6$  ?', '36', NULL, NULL, NULL, (SELECT quizID FROM quiz WHERE name =
'Math 101')
),
(
    'TF', 'If  $3-2i$  is a root of a function then so is  $3+2i$ .' , 'True', 'False', NULL, NULL, (SELECT
quizID FROM quiz WHERE name = 'Precalc')
),
(
    'TF', 'The maximum or minimum value of a quadratic function occurs at  $x = 2b/a$ .' , 'False',
'True', NULL, NULL, (SELECT quizID FROM quiz WHERE name = 'Precalc')
),
(
    'TF', 'If  $-10 < x < 8$  then  $-10 > -x$  and  $-x > -8$ .' , 'False', 'True', NULL, NULL, (SELECT quizID FROM
quiz WHERE name = 'Precalc')
),
(
    'MC', 'If  $2x - 2y = 10$  and  $x + y = 5$  then  $x$  equals?', '5', '0', 'there is no solution', '10', (SELECT
quizID FROM quiz WHERE name = 'Precalc')
);
```

```
INSERT INTO student_question (studentAnswer, questionPT, quizID, studentID, questionID,
dateTaken)
VALUES(
    '18', '1', '1', (SELECT studentID FROM student WHERE firstName = 'Sam' AND lastName =
'Norris'),
    (SELECT questionID FROM question WHERE question = 'What is  $2 * 8 + 2$  ?' AND quizID =
'1'), '2020-04-01 23:59:50'
),
(
    '99', '0', '1', (SELECT studentID FROM student WHERE firstName = 'Sam' AND lastName =
'Norris'),
    (SELECT questionID FROM question WHERE question = 'What is  $9 * 9$  ?' AND quizID = '1'),
'2020-04-01 23:59:50'
),
(
    '10', '1', '1', (SELECT studentID FROM student WHERE firstName = 'Sam' AND lastName =
'Norris'),
    (SELECT questionID FROM question WHERE question = 'What is  $7 - 2 + 5$  ?' AND quizID =
'1'), '2020-04-01 23:59:50'
),
(
    '30', '1', '1', (SELECT studentID FROM student WHERE firstName = 'Sam' AND lastName =
'Norris'),
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        (SELECT questionID FROM question WHERE question = 'What is  $6 + 6 * 4$  ?' AND quizID =
'1'), '2020-04-01 23:59:50'
    ),
    (
        '12', '0', '1', (SELECT studentID FROM student WHERE firstName = 'Sam' AND lastName =
'Norris'),
        (SELECT questionID FROM question WHERE question = 'What is  $6 * 6$  ?' AND quizID = '1'),
'2020-04-01 23:59:50'
    ),
    (
        '18', '1', '1', (SELECT studentID FROM student WHERE firstName = 'Jay' AND lastName =
'Chong'),
        (SELECT questionID FROM question WHERE question = 'What is  $2 * 8 + 2$  ?' AND quizID =
'1'), '2020-04-03 23:00:50'
    ),
    (
        '81', '1', '1', (SELECT studentID FROM student WHERE firstName = 'Jay' AND lastName =
'Chong'),
        (SELECT questionID FROM question WHERE question = 'What is  $9 * 9$  ?' AND quizID = '1'),
'2020-04-03 23:00:50'
    ),
    (
        '0', '0', '1', (SELECT studentID FROM student WHERE firstName = 'Jay' AND lastName =
'Chong'),
        (SELECT questionID FROM question WHERE question = 'What is  $7 - 2 + 5$  ?' AND quizID =
'1'), '2020-04-03 23:00:50'
    ),
    (
        '24', '0', '1', (SELECT studentID FROM student WHERE firstName = 'Jay' AND lastName =
'Chong'),
        (SELECT questionID FROM question WHERE question = 'What is  $6 + 6 * 4$  ?' AND quizID =
'1'), '2020-04-03 23:00:50'
    ),
    (
        '30', '0', '1', (SELECT studentID FROM student WHERE firstName = 'Jay' AND lastName =
'Chong'),
        (SELECT questionID FROM question WHERE question = 'What is  $6 * 6$  ?' AND quizID = '1'),
'2020-04-03 23:00:50'
    ),
    (
        'True', '1', '2', (SELECT studentID FROM student WHERE firstName = 'Elizabeth' AND
lastName = 'Wilson'),
        (SELECT questionID FROM question WHERE question = 'If  $3-2i$  is a root of a function than so
is  $3+2i$ .' AND quizID = '2'), '2020-04-05 23:00:50'
    )

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),
(
    'True', '0', '2', (SELECT studentID FROM student WHERE firstName = 'Elizabeth' AND
lastName = 'Wilson'),
    (SELECT questionID FROM question WHERE question = 'The maximum or minimum value of
a quadratic function occurs at  $x = 2b/a$ .' AND quizID = '2'), '2020-04-05 23:00:50'
),
(
    'True', '0', '2', (SELECT studentID FROM student WHERE firstName = 'Elizabeth' AND
lastName = 'Wilson'),
    (SELECT questionID FROM question WHERE question = 'If  $-10 < x < 8$  then  $-10 > -x$  and  $-x > -8$ .'
AND quizID = '2'), '2020-04-05 23:00:50'
),
(
    '5', '1', '2', (SELECT studentID FROM student WHERE firstName = 'Elizabeth' AND lastName
= 'Wilson'),
    (SELECT questionID FROM question WHERE question = 'If  $2x - 2y = 10$  and  $x + y = 5$  then x
equals?' AND quizID = '2'), '2020-04-05 23:00:50'
),
(
    '18', '1', '1', (SELECT studentID FROM student WHERE firstName = 'Elizabeth' AND lastName
= 'Wilson'),
    (SELECT questionID FROM question WHERE question = 'What is  $2 * 8 + 2$  ?' AND quizID =
'1'), '2020-04-01 23:00:50'
),
(
    '81', '1', '1', (SELECT studentID FROM student WHERE firstName = 'Elizabeth' AND lastName
= 'Wilson'),
    (SELECT questionID FROM question WHERE question = 'What is  $9 * 9$  ?' AND quizID = '1'),
'2020-04-01 23:00:50'
),
(
    '0', '0', '1', (SELECT studentID FROM student WHERE firstName = 'Elizabeth' AND lastName
= 'Wilson'),
    (SELECT questionID FROM question WHERE question = 'What is  $7 - 2 + 5$  ?' AND quizID =
'1'), '2020-04-01 23:00:50'
),
(
    '24', '0', '1', (SELECT studentID FROM student WHERE firstName = 'Elizabeth' AND lastName
= 'Wilson'),
    (SELECT questionID FROM question WHERE question = 'What is  $6 + 6 * 4$  ?' AND quizID =
'1'), '2020-04-01 23:00:50'
);

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```
UPDATE quiz SET numQUESTION = (SELECT COUNT(quizID) FROM question WHERE  
question.quizID = quiz.quizID);
```