

Home Page

--Select studentId, first name, user type

```
SELECT `studentID`, `firstName`, `userType` FROM `student` WHERE `email` = ? AND  
`password` = ?;
```

--Select TeacherID, first name, user type

```
SELECT `teacherID`, `firstName`, `userType` FROM `teacher` WHERE `email` = ? AND  
`password` = ?;
```

--Select email

```
SELECT `email` FROM `student` WHERE `email` = ?;
```

--Update student information

```
INSERT INTO `student` (`firstName`, `lastName`, `email`, `password`, `userType`) VALUES (?,  
?, ?, ?, ?);
```

--Select studentId, first name, user type

```
SELECT `studentID`, `firstName`, `userType` FROM `student` WHERE `email` = ? AND  
`password` = ?;
```

--Select email

```
SELECT `email` FROM `teacher` WHERE `email` = ?;
```

--Update teacher information

```
INSERT INTO `teacher` (`firstName`, `lastName`, `email`, `password`, `userType`) VALUES (?,  
?, ?, ?, ?);
```

--Select teacherId, first name, user type

```
SELECT `teacherID`, `firstName`, `userType` FROM `teacher` WHERE `email` = ?;
```

Student Profile

--Display student information

```
SELECT * FROM student WHERE studentID = ?;
```

--Update student's first and last name

```
UPDATE student SET firstName = ?, lastName = ? WHERE studentID = ?;
```

--Update student's password

```
UPDATE student SET password = ? WHERE studentID = ?;
```

Student Scoreboard

--Display student ID, quiz ID, quiz name and the score student received on the quiz

```
SELECT studentID, q.quizID, q.name, actual_score FROM quiz AS q LEFT JOIN(SELECT
studentID,quizID, SUM(questionPT) AS actual_score FROM student_question GROUP BY
studentID, quizID) stu_quiz USING (quizID) WHERE stu_quiz.studentID = ?;
```

--Select student's first and last name, question ID, the question, question answer, student's answer, the point each question is worth, and the quiz name

```
SELECT s.firstName, s.lastName, quest.questionID, quest.question, quest.answer,
studentAnswer, questionPt, q.name FROM student AS s LEFT JOIN (SELECT questionID,
studentID, studentAnswer, questionPT FROM student_question WHERE quizID = ?) sq USING
(studentID) JOIN question AS quest ON sq.questionID = quest.questionID JOIN quiz AS q ON
quest.quizID = q.quizID WHERE studentID = ?;
```

--Get the total points of each question and the number of question

```
SELECT SUM(questionPT) AS actual_score, COUNT(questionPT) AS count FROM
student_question WHERE quizID = ? AND studentID = ?;
```

--Get student's first and last name, quiz name, and the date the quiz was taken

```
SELECT DISTINCT s.firstName, s.lastName, q.name, DATE_FORMAT(dateTaken,
'%m/%d/%Y %h:%i %p') AS lastTakenDate FROM student AS s LEFT JOIN (SELECT
questionID, studentID, dateTaken FROM student_question WHERE quizID = ?) sq USING
(studentID) JOIN question AS quest ON sq.questionID = quest.questionID JOIN quiz AS q ON
quest.quizID = q.quizID WHERE studentID = ?;
```

Teacher Quiz

--Displaying quizID, quiz name, number of questions and number of students who have taken the quiz

```
SELECT q.quizID, q.name AS name, IFNULL(q.numQuestion, 0) AS numQuestion,
IFNULL(num_taken, 0) AS num_taken FROM quiz AS q LEFT JOIN (SELECT quizID,
count(distinct quizID, studentID) AS num_taken FROM student_question GROUP BY quizID)
stu_num USING (quizID) WHERE teacherID = ?;
```

--Update numQuestion

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

-Get all questions under quizID

```
SELECT * FROM question WHERE quizID = ?;
```

--Get quizID

```
SELECT quizID FROM quiz WHERE name = ? and teacherID = ?;
```

--Create new quiz

```
INSERT INTO quiz (name, teacherID, dateCreated) VALUES (?, ?, ?);
```

--Insert new question into quiz

```
INSERT into question (question, type, answer, quizID, choiceA, choiceB, choiceC) VALUES (?, ?, ?, ?, ?, ?, ?);
```

--Update question

```
UPDATE question SET question = ?, answer = ?, choiceA = ?, choiceB = ?, choiceC = ?  
WHERE questionID = ?;
```

--Delete quiz

```
DELETE FROM quiz WHERE quizID = ?;
```

--Delete question from quiz

```
DELETE FROM question WHERE questionID = ?;
```

Teacher Home Page

--Select studentID, first name, last name, quizID, quiz name

```
SELECT s.studentID, s.firstName, s.lastName, q.quizID, q.name, DATE_FORMAT(dateTaken,  
'%m/%d/%Y') AS lastTakenDate FROM teacher AS t LEFT JOIN quiz AS q ON t.teacherID =  
q.teacherID JOIN (SELECT studentID, quizID, dateTaken FROM student_question GROUP BY  
dateTaken, studentID, quizID) sq USING (quizID) JOIN student AS s ON sq.studentID =  
s.studentID WHERE t.teacherID = ? ORDER BY lastTakenDate DESC;
```

Teacher Profile

--Display teacher information

```
SELECT * FROM teacher WHERE teacherID = ?;
```

--Update teacher information

```
UPDATE teacher SET firstName = ?, lastName = ? WHERE teacherID = ?
```

--Update teacher information

```
UPDATE teacher SET password = ? WHERE teacherID = ?
```

Teacher Scoreboard

--Select quizID, quiz name

```
SELECT q.quizID, q.name FROM quiz AS q JOIN teacher AS t ON q.teacherID = t.teacherID  
WHERE t.teacherID = ? ORDER BY name ASC;
```

--Select studentID, student last name, student first name

```
SELECT DISTINCT s.studentID, s.lastName, s.firstName FROM teacher AS t LEFT JOIN quiz  
AS q ON t.teacherID = q.teacherID JOIN (SELECT studentID, quizID FROM student_question  
GROUP BY studentID, quizID) sq USING (quizID) JOIN student AS s ON sq.studentID =  
s.studentID WHERE t.teacherID = ? ORDER BY lastName ASC;
```

```
--Select studentID, student last name, student first name, score, quizID
SELECT DISTINCT s.studentID, s.lastName, s.firstName, actual_score, q.quizID FROM teacher
AS t LEFT JOIN quiz AS q ON t.teacherID = q.teacherID JOIN (SELECT studentID, quizID,
SUM(questionPT) as actual_score FROM student_question GROUP BY studentID, quizID) sq
USING (quizID) JOIN student AS s ON sq.studentID = s.studentID WHERE t.teacherID = ?
ORDER BY firstName ASC;
```

```
--Select studentID, quizID, quiz name, score
SELECT DISTINCT s.studentID, q.quizID, q.name, actual_score FROM teacher AS t LEFT
JOIN quiz AS q ON t.teacherID = q.teacherID JOIN (SELECT studentID, quizID,
SUM(questionPT) as actual_score FROM student_question GROUP BY studentID, quizID) sq
USING (quizID) JOIN student AS s ON sq.studentID = s.studentID WHERE t.teacherID = ?
ORDER BY name ASC;
```

```
--Select student first name, student last name, questionID, question, answer, studentAnswer,
questionPT, quiz name
SELECT s.firstName, s.lastName, quest.questionID, quest.question, quest.answer,
studentAnswer, questionPt, q.name FROM student AS s LEFT JOIN (SELECT questionID,
studentID, studentAnswer, questionPT FROM student_question WHERE quizID = ?) sq USING
(studentID) JOIN question AS quest ON sq.questionID = quest.questionID JOIN quiz AS q ON
quest.quizID = q.quizID WHERE studentID = ?;
```

```
--Select sum of quiz and total number of questions
SELECT SUM(questionPT) AS actual_score, COUNT(questionPT) AS count FROM
student_question WHERE quizID = ? AND studentID = ?;
```

```
--Get student's first and last name, quiz name, and the date the quiz was taken
SELECT DISTINCT s.firstName, s.lastName, q.name, DATE_FORMAT(dateTaken,
"%m/%d/%Y %h:%i %p") AS lastTakenDate FROM student AS s LEFT JOIN (SELECT
questionID, studentID, dateTaken FROM student_question WHERE quizID = ?) sq USING
(studentID) JOIN question AS quest ON sq.questionID = quest.questionID JOIN quiz AS q ON
quest.quizID = q.quizID WHERE studentID = ?;
```

```
--Remove student from quiz
DELETE FROM student_question WHERE quizID = ? AND studentID = ?
```