

CRUD

CREATE - performs **INSERT** statement to create a new record in the database

Create will add new data to the schooldb database for:

- Teachers
- Students
- Classes
- Students x Classes (enrollment)

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- Done when a new teacher, student, or class needs to be added to the schools database
 - After it's completed there should be a new entry added
 - to the appropriate table
 - The new entry (for the corresponding table) will be assigned a unique id (primary key) automatically through MySQL and can be used to access the information later.
 - teacher_id
 - student_id
 - class_id
 - studentxclasses_id (enrollment) is a unique id (primary key) assigned through my SQL
 - student_id and class_id are pulled from the primary keys for the students and classes table

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- HTTP POST request
 - Adds new item to the stored list (teacher, students, classes) within the shooldb database
 - Server would return with link to the newly created item in the database

POSSIBLE SELECT STATEMENTS - EXAMPLES

TEACHERS

```
INSERT INTO teachers (first_name, last_name, employee_number, hire_date, salary)  
VALUES('Paul', 'Boin', T459, '2017-03-16', 65000);
```

STUDENTS

```
INSERT INTO students (first_name, last_name, student_number, enrolment_date)  
VALUES('Shanakay', 'Hall', N0121, 2019-09-01);
```

CLASSES

```
INSERT INTO classes (class_code, teacher_id, start_date, finish_date, class_name)  
VALUES('HTTP5367', 13459, 2020-01-06, 2020-04-10, 'UI & UX Fundamentals')
```

STUDENTS x CLASSES (ENROLLMENT)

```
INSERT INTO enrollment (student_id, class_id)  
VALUES (primary keys assigned through MySQL)
```

ADD NEW TEACHER

DATA	USER INPUT
FIRST NAME (VARCHAR)	Paul
LAST NAME (VARCHAR)	Boin
EMPLOYEE # (INT)	T459
HIRE DATE (INT)	2017- 03 -16
SALARY (INT)	65000
CANCEL	SAVE

ADD ROW - The following data query would run

```
INSERT INTO teachers (first_name, last_name,employee_number,hire_date,salary)  
VALUES('Paul','Boin', T459, '2017-03-16', 65000);
```

ADD NEW STUDENT

DATA	USER INPUT
FIRST NAME (VARCHAR)	Shanakay
LAST NAME (VARCHAR)	Hall
STUDENT NUMBER (INT)	N0121
ENROLLMENT DATE (INT)	09 - 04 - 2019
<input type="button" value="CANCEL"/>	<input type="button" value="SAVE"/>

ADD ROW - The following data query would run

```
INSERT INTO students (first_name, last_name, student_number, enrolment_date)  
VALUES( 'Shanakay', 'Hall', N0121,2019-09-01);
```

ADD NEW CLASS

DATA	USER INPUT
CLASS CODE (VARCHAR)	HTTP5367
TEACHER ID (INT)	13459
START DATE (INT)	2020 - 01 - 06
FINISH DATE (INT)	2020- 04 -10
CLASS NAME (VARCHAR)	UI & UX Fundamentals
CANCEL	SAVE

ADD ROW - The following data query would run

```
INSERT INTO classes (class_code,teacher_id,start_date,finish_date,class_name)  
VALUES ('HTTP5367', 13459, 2020-01-06,2020-04-10,'UI & UX Fundamentals')
```

WELCOME TO HUMBER GIRLS COLLEGE PORTAL

Enter your username and password to login to the database.

USERNAME

PASSWORD

LOGIN

MAIN PAGE

WHAT WOULD YOU LIKE TO DO?

Please choose where you would like to go.

STUDENTS

TEACHERS

CLASSES

STUDENTS X CLASSES
(ENROLLMENT)

ADD NEW STUDENT PAGE

ADD NEW STUDENT

Please fill out the information for the new student.

FIRST NAME

LAST NAME

STUDENT NUMBER

ENROLLMENT DATE

▼

▼

▼

SUBMIT

NEW STUDENT ADDED PAGE

SUCCESS! NEW STUDENT ADDED

Please see below for the new student's information.

FIRST NAME: Shanakay

LAST NAME: Hall

STUDENT NUMBER: N0121

ENROLLMENT DATE: Sept 4, 2019

YOUR STUDENT ID IS : 109

STUDENTS LIST VIEW PAGE

STUDENT INFORMATION SAVED!

Here is your newly updated student's database.

	First Name	Last Name	Student #	Enrollment Date	Action
109	Shanakay	Hall	N0121	09-04-2019	Edit Delete
108	Kyle	Johnson	N0345	05-05-2019	
107	Reginae	King	N0155	01-07-2019	

ADD NEW TEACHER

ADD NEW TEACHER

Please fill out the information for the new teacher.

FIRST NAME

LAST NAME

EMPLOYEE #

HIRE DATE

1 ▼

JAN ▼

2020 ▼

SALARY

SUBMIT

CRUD

UPDATE - performs UPDATE statement to edit an existing record in the database

Update will edit existing data to the schooldb database for:

- Teachers
- Students
- Classes
- Students x Classes (enrollment)

POSSIBLE STATEMENTS:

STUDENTS:

UPDATE students

SET first_name='Sarah', last_name='White'

WHERE student_id='9'

TEACHERS:

UPDATE teachers

SET hire_date='2018-04-18', salary='63500'

WHERE teacher_id='13'

CLASSES:

UPDATE classes

SET start_date='2019-09-03', class_code='HTTP5253'

WHERE class_id='12'

STUDENTS X CLASSES (ENROLLMENT):

UPDATE enrollment

SET class_id='23'

WHERE studentxclasses_id='232'

TEACHER UPDATE PAGE:

UPDATE TEACHER

First Name:

Last Name:

Employee Number:

Hire Date:

Salary:

SUBMIT

STUDENT UPDATE PAGE:

UPDATE STUDENT

First Name:

Last Name:

Student Number:

Enrollment Date:

SUBMIT

CLASS UPDATE PAGE:

UPDATE CLASS

Class Code:

Teacher ID:

Start Date:

 ▾ ▾ ▾

Finish Date:

 ▾ ▾ ▾

Class Name:

SUBMIT

CRUD

DELETE - performs DELETE statement to remove an existing record in the database

Delete will delete existing data from the schooldb database for:

- Teachers
- Students
- Classes
- Students x Classes (enrollment)

POSSIBLE STATEMENTS:

STUDENTS:

DELETE FROM students
WHERE student_id='13'

TEACHERS:

DELETE FROM teachers
WHERE teacher_id='8'

CLASSES:

DELETE FROM classes
WHERE class_id='16'

STUDENTS X CLASSES (ENROLLMENT):

Foreign key(class_id)
Reference Classes(class_id)
ON DELETE CASCADE

STUDENT INFORMATION SAVED!

Here is your newly updated student's database.

	First Name	Last Name	Student #	Enrollment Date	Action
109	Shanakay	Hall	N0121	09-04-2019	Edit Delete
108	Kyle	Johnson	N0345	05-05-2019	
107	Reginae	King	N0155	01-07-2019	

DELETE ALERT (STUDENT):

You are about to delete from the Students Table:

Student Name: Caitlin Cummings
Student Number: N1679

CONFIRM

CANCEL

DELETE ALERT (TEACHER):

You are about to delete from the Teachers Table:

Teacher Name: Jennifer Faulkner
Employee Number: T381

DELETE ALERT (CLASS):

You are about to delete from the Classes Table:

Class Code: HTTP5102
Class Name: Project Management