

## **Final Project**

### **Massage Therapy Small Business Database**

#### **OUTLINE**

This database is for a small massage therapy business. It may be used to keep track of the business's clientele, massage therapists employed, services (types of massages) offered, the locations at which the services will be performed, the actual appointments themselves – containing information pertinent to an appointment – the position titles of each massage therapist, and the certifications, if any, held by each massage therapist.

#### **DATABASE OUTLINE:**

The entities included in this database are:

- Clients,
- Massage therapists,
- Appointments,
- Services (types of massage therapy offered),
- Locations of the massage,
- Certifications held by the massage therapist, and
- Positions held by the massage therapist

#### ***Clients:***

The 'Clients' table contains a:

- Client id,
- First name,
- Last name,
- Email,
- Phone number,
- Full address, and
- Date of birth

The 'Clients' primary key is the client's id, which is used for a join as a foreign key in the 'Appointments' table to set up clients' unique appointments.

#### ***Massage Therapists:***

The 'Therapists' table consists of a:

- Massage therapist id,
- First name, and
- Last name

The 'Therapists' primary key is the therapist's id, which is used for joins to the 'Therapists\_certs' table to join with the 'Certs' table, the 'Therapists\_positions' table to join with the 'Positions' table, and the 'Therapists\_services' table to be joined with the 'Services' table.

I decided not to have the first and last names be unique because there could be cases in which multiple clients have the same first and last name.

### ***Appointments:***

The 'Appointments' table contains a:

- Client id,
- Visit id,
- Date of the visit,
- Time of the visit,
- A therapist who will perform the service,
- The service to be performed,
- The location of the session

The 'Appointments' primary key is the combination of the visit id and the client id, since each appointment will **belong** to a specific client.

### ***Services:***

The 'Services' table consists of a:

- Service id,
- Name of the service being performed

The 'Services' primary key is the service id.

### ***Locations:***

The 'Locations' table consists of a:

- Location id,
- Nickname of the location
- Full address

The 'Locations' primary key is the location id.

### ***Certifications:***

The 'Certs' table consists of a:

- Certification id,
- Name of certification

The 'Certs' primary key is the id.

### ***Positions:***

The 'Positions' table describes the title held by a massage therapist. For example, the owner, the workers' titles, etc. This table consists of:

- Position id,
- name of the position

The 'Positions' primary key is the id. In my user interface, upon adding a massage therapist, it is not required that the massage therapist hold a "position" in the business.

The relationship tables used to join other tables together are: Therapists\_positions, Therapists\_certs, and Therapists\_services. Other than the ids as primary keys, the only other attributes in any of these relationship tables is in the Therapists\_certs table; the date the certification was acquired and the date that the certification expires, if ever. The date acquired is required upon input when associating a new certification to a massage therapist.

**Data Definition Queries:**

```
-- Program Name: main.sql
-- Assignment Name: Final Project
-- Author: Elizabeth Premer
-- Date Due: 18 March 2018
-- Description: table creation
```

```
DROP TABLE IF EXISTS `Clients`;
DROP TABLE IF EXISTS `Therapists`;
DROP TABLE IF EXISTS `Appointments`;
DROP TABLE IF EXISTS `Positions`;
DROP TABLE IF EXISTS `Certs`;
DROP TABLE IF EXISTS `Services`;
DROP TABLE IF EXISTS `Locations`;
DROP TABLE IF EXISTS `Therapists_services`;
DROP TABLE IF EXISTS `Therapists_positions`;
DROP TABLE IF EXISTS `Therapists_certs`;
```

```
CREATE TABLE `Clients` (
  `c_client_id` int(11) NOT NULL AUTO_INCREMENT,
  `c_name_first` varchar(255) NOT NULL,
  `c_name_last` varchar(255) NOT NULL,
  `email` varchar(50) NOT NULL, -- validate in frontend in html
  `phone` int(11) NOT NULL,
  `address_st` varchar(255),
  `address_city` varchar(255),
  `address_state` varchar(255),
  `address_zip` int(5),
  `dob` date,
  PRIMARY KEY (`c_client_id`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

```
CREATE TABLE `Therapists` (  
  `t_therapist_id` int(11) NOT NULL AUTO_INCREMENT,  
  `t_name_first` varchar(255) NOT NULL,  
  `t_name_last` varchar(255) NOT NULL,  
  PRIMARY KEY (`t_therapist_id`)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

```
CREATE TABLE `Services` (  
  `s_service_id` int(11) NOT NULL AUTO_INCREMENT,  
  `s_name` varchar(255) NOT NULL,  
  PRIMARY KEY (`s_service_id`)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

```
CREATE TABLE `Appointments` (  
  `a_visit_id` int(11) NOT NULL AUTO_INCREMENT,  
  `a_client_id` int(11),  
  `date` date NOT NULL,  
  `time` time NOT NULL,  
  `a_therapist_id` int(11) NOT NULL,  
  `a_service_id` int(11) NOT NULL,  
  `a_location_id` int(11) NOT NULL,  
  PRIMARY KEY (`a_visit_id`), /* should prim key be combo of visit AND client ids? */  
  /* should client and visit ids be unique? does it matter? */  
  FOREIGN KEY (`a_client_id`) REFERENCES `Clients` (`c_client_id`),  
  FOREIGN KEY (`a_therapist_id`) REFERENCES `Therapists` (`t_therapist_id`),  
  FOREIGN KEY (`a_service_id`) REFERENCES `Services` (`s_service_id`),  
  FOREIGN KEY (`a_location_id`) REFERENCES `Locations` (`l_location_id`)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

```
CREATE TABLE `Locations` (  
  `l_location_id` int(11) NOT NULL AUTO_INCREMENT,  
  `l_name` varchar(255) NOT NULL,  
  `address_st` varchar(255),  
  `address_city` varchar(255),  
  `address_state` varchar(255),  
  `address_zip` varchar(255),  
  PRIMARY KEY (`l_location_id`)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

```
CREATE TABLE `Certs` (  
  `c_cert_id` int(11) NOT NULL AUTO_INCREMENT,  
  `c_name` varchar(255) NOT NULL,
```

```
PRIMARY KEY (`c_cert_id`)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

```
CREATE TABLE `Positions` (  
  `p_position_id` int(11) NOT NULL AUTO_INCREMENT,  
  `p_name` varchar(255) NOT NULL,  
  PRIMARY KEY (`p_position_id`)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

```
CREATE TABLE `Therapists_services` (  
  `ts_therapist_id` int(11),  
  `ts_service_id` int(11),  
  PRIMARY KEY (`ts_therapist_id`, `ts_service_id`),  
  FOREIGN KEY (`ts_therapist_id`) REFERENCES `Therapists` (`t_therapist_id`) ON  
DELETE CASCADE,  
  FOREIGN KEY (`ts_service_id`) REFERENCES `Services` (`s_service_id`) ON DELETE  
CASCADE  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

```
CREATE TABLE `Therapists_positions` (  
  `tp_therapist_id` int(11),  
  `tp_position_id` int(11),  
  PRIMARY KEY (`tp_therapist_id`, `tp_position_id`),  
  FOREIGN KEY (`tp_therapist_id`) REFERENCES `Therapists` (`t_therapist_id`) ON  
DELETE CASCADE,  
  FOREIGN KEY (`tp_position_id`) REFERENCES `Positions` (`p_position_id`) ON  
DELETE CASCADE  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

```
CREATE TABLE `Therapists_certs` (  
  `tc_therapist_id` int(11),  
  `tc_cert_id` int(11),  
  `date_acquired` date NOT NULL,  
  `date_expires` date,  
  PRIMARY KEY (`tc_therapist_id`, `tc_cert_id`),  
  FOREIGN KEY (`tc_cert_id`) REFERENCES `Certs` (`c_cert_id`) ON DELETE  
CASCADE,  
  FOREIGN KEY (`tc_therapist_id`) REFERENCES `Therapists` (`t_therapist_id`) ON  
DELETE CASCADE  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

```

/* PRE-POPULATED DATA */
-- insert the following into the client table:
INSERT INTO `Clients` (`c_name_first`, `c_name_last`, `email`, `phone`, `address_st`,
`address_city`, `address_state`, `address_zip`, `dob`)
VALUES ('Sara', 'Smith', 'sarasmiles@someaddress.com', '8055551234', '1358 20th
Street', 'Oceano', 'CA', '93445', '1983-12-11');

INSERT INTO `Clients` (`c_name_first`, `c_name_last`, `email`, `phone`, `address_st`,
`address_city`, `address_state`, `address_zip`, `dob`)
VALUES ('Barbara', 'Jones', 'bababarbara.ann@someaddress.com', '8055552345',
'1353 20th Street', 'Oceano', 'CA', '93445', '1991-01-21');

INSERT INTO `Clients` (`c_name_first`, `c_name_last`, `email`, `phone`, `address_st`,
`address_city`, `address_state`, `address_zip`, `dob`)
VALUES ('Danny', 'Angel', 'earth.angel@someaddress.com', '8055559876', '1531
Hillcrest Dr', 'Arroyo Grande', 'CA', '93420', '1989-06-19');

INSERT INTO `Clients` (`c_name_first`, `c_name_last`, `email`, `phone`, `address_st`,
`address_city`, `address_state`, `address_zip`, `dob`)
VALUES ('Katie', 'Smith', 'ktbug@someaddress.com', '8055556978', '1531
Hillcrest Dr', 'Arroyo Grande', 'CA', '93420', '1989-01-01');

INSERT INTO `Clients` (`c_name_first`, `c_name_last`, `email`, `phone`, `address_st`,
`address_city`, `address_state`, `address_zip`, `dob`)
VALUES ('Julia', 'Matthews', 'jules@someaddress.com', '8055552323', '1531
Hillcrest Dr', 'Arroyo Grande', 'CA', '93420', '1983-12-11');

-- insert the following into the therapist table
INSERT INTO `Therapists` (`t_name_first`, `t_name_last`) VALUES ('Lizzie', 'Premier');

INSERT INTO `Therapists` (`t_name_first`, `t_name_last`) VALUES ('Rebekah',
'Hughton');

INSERT INTO `Therapists` (`t_name_first`, `t_name_last`) VALUES ('Stanley',
'Baldwin');

-- insert the following into the certification table:
INSERT INTO `Certs` (`c_name`) VALUES ('Ashiatsu');

INSERT INTO `Certs` (`c_name`) VALUES ('CAMTC');

INSERT INTO `Certs` (`c_name`) VALUES ('Deep Tissue');

-- insert the following into the service table:
INSERT INTO `Services` (`s_name`) VALUES ('Swedish');

```

```
INSERT INTO `Services` (`s_name`) VALUES ('Ashiatsu');
```

```
INSERT INTO `Services` (`s_name`) VALUES ('Deep Tissue');
```

```
INSERT INTO `Services` (`s_name`) VALUES ('Prenatal');
```

```
-- insert the following into the location table:
```

```
INSERT INTO `Locations` (`l_name`, `address_st`, `address_city`, `address_state`,  
`address_zip`)  
VALUES ('Studio', '825 El Capitan Way, Ste 18A', 'San Luis Obispo', 'CA', '93401');
```

```
INSERT INTO `Locations` (`l_name`, `address_st`, `address_city`, `address_state`,  
`address_zip`)  
VALUES ('MBO', '4051 Broad St', 'San Luis Obispo', 'CA', '93401');
```

```
-- insert the following into the position table:
```

```
INSERT INTO `Positions` (`p_name`) VALUES ('Owner');
```

```
INSERT INTO `Positions` (`p_name`) VALUES ('Massage Therapist');
```

```
-- insert into the therapist_service table:
```

```
INSERT INTO `Therapists_services` (`ts_therapist_id`, `ts_service_id`)  
VALUES ( (SELECT `t_therapist_id` FROM `Therapists` WHERE `t_name_first` =  
'Lizzie'),  
(SELECT `s_service_id` FROM `Services` WHERE `s_name` = 'Ashiatsu'));
```

```
INSERT INTO `Therapists_services` (`ts_therapist_id`, `ts_service_id`)  
VALUES ( (SELECT `t_therapist_id` FROM `Therapists` WHERE `t_name_first` =  
'Lizzie'),  
(SELECT `s_service_id` FROM `Services` WHERE `s_name` = 'Deep Tissue'));
```

```
INSERT INTO `Therapists_services` (`ts_therapist_id`, `ts_service_id`)  
VALUES ( (SELECT `t_therapist_id` FROM `Therapists` WHERE `t_name_first` =  
'Rebekah'),  
(SELECT `s_service_id` FROM `Services` WHERE `s_name` = 'Deep Tissue'));
```

```
-- insert into the therapist_position table:
```

```
INSERT INTO `Therapists_positions` (`tp_therapist_id`, `tp_position_id`)
```

```
VALUES ( (SELECT `t_therapist_id` FROM `Therapists` WHERE `t_name_first` =
'Lizzie'),
        (SELECT `p_position_id` FROM `Positions` WHERE `p_name` = 'Owner'));
```

```
INSERT INTO `Therapists_positions` (`tp_therapist_id`, `tp_position_id`)
VALUES ( (SELECT `t_therapist_id` FROM `Therapists` WHERE `t_name_first` =
'Lizzie'),
        (SELECT `p_position_id` FROM `Positions` WHERE `p_name` = 'Massage
Therapist'));
```

```
INSERT INTO `Therapists_positions` (`tp_therapist_id`, `tp_position_id`)
VALUES ( (SELECT `t_therapist_id` FROM `Therapists` WHERE `t_name_first` =
'Rebekah'),
        (SELECT `p_position_id` FROM `Positions` WHERE `p_name` = 'Massage
Therapist'));
```

-- insert into the therapist\_certs tables

```
INSERT INTO `Therapists_certs` (`tc_therapist_id`, `tc_cert_id`, `date_acquired`,
`date_expires`)
VALUES ( (SELECT `t_therapist_id` FROM `Therapists` WHERE `t_name_first` =
'Lizzie'),
        (SELECT `c_cert_id` FROM `Certs` WHERE `c_name` = 'CAMTC'),
        '2014-05-15', '2019-05-14');
```

```
INSERT INTO `Therapists_certs` (`tc_therapist_id`, `tc_cert_id`, `date_acquired`)
VALUES ( (SELECT `t_therapist_id` FROM `Therapists` WHERE `t_name_first` =
'Lizzie'),
        (SELECT `c_cert_id` FROM `Certs` WHERE `c_name` = 'Ashiatsu'),
        '2015-07-01'); -- NULL for date_expires?
```

-- insert the following into the appointment table:

-- first visit of client 1 (Sara Smith), with therapist 1 (lizzie), for service 1 (swedish) in location 1 (studio)

```
INSERT INTO `Appointments` (`a_client_id`, `date`, `time`, `a_therapist_id`,
`a_service_id`, `a_location_id`)
VALUES ( (SELECT `c_client_id` FROM `Clients` WHERE `c_name_first` = 'Sara' AND
`c_name_last` = 'Smith'), '2018-03-01', '12:30:00',
        (SELECT `t_therapist_id` FROM `Therapists` WHERE `t_name_first` = 'Lizzie'
AND `t_name_last` = 'Premier'),
        (SELECT `s_service_id` FROM `Services` WHERE `s_name` = 'Swedish'),
        (SELECT `l_location_id` FROM `Locations` WHERE `l_name` = 'studio') );
```

-- second visit of client 1 (Sara Smith), with therapist 1 (lizzie), for service 1 (swedish) in location 1 (studio)



```

INSERT INTO `Appointments` (`a_client_id`, `date`, `time`, `a_therapist_id`,
`a_service_id`, `a_location_id`)
VALUES ( (SELECT `c_client_id` FROM `Clients` WHERE `c_name_first` = 'Sara' AND
`c_name_last` = 'Smith'), '2018-03-11', '12:30:00',
(SELECT `t_therapist_id` FROM `Therapists` WHERE `t_name_first` = 'Lizzie'
AND `t_name_last` = 'Premer'),
(SELECT `s_service_id` FROM `Services` WHERE `s_name` = 'Swedish'),
(SELECT `l_location_id` FROM `Locations` WHERE `l_name` = 'studio') );

-- first visit of client 2 (Barbara Jones), with therapist 2 (rebekah), for service 2
(ashiatsu) in location 1 (studio)
INSERT INTO `Appointments` (`a_client_id`, `date`, `time`, `a_therapist_id`,
`a_service_id`, `a_location_id`)
VALUES ( (SELECT `c_client_id` FROM `Clients` WHERE `c_name_first` = 'Danny'
AND `c_name_last` = 'Angel'), '2018-02-25', '14:30:00',
(SELECT `t_therapist_id` FROM `Therapists` WHERE `t_name_first` = 'Rebekah'
AND `t_name_last` = 'Hughton'),
(SELECT `s_service_id` FROM `Services` WHERE `s_name` = 'Ashiatsu'),
(SELECT `l_location_id` FROM `Locations` WHERE `l_name` = 'studio') );

```

### **Data Manipulation Queries:**

Queries used in .js functions:

For the Therapists table (in therapists.js)

```

In function getTherapistCert(res, mysql, context, therapist_id, cert_id, complete){
    SELECT t_therapist_id, t_name_first, t_name_last, c_cert_id, c_name,
DATE_FORMAT(`date_acquired`, '%Y-%m-%d') AS `date_acquired`,
DATE_FORMAT(`date_expires`, '%Y-%m-%d') AS `date_expires`
    FROM Therapists
    LEFT JOIN Therapists_certs
    ON t_therapist_id=tc_therapist_id
    LEFT JOIN Certs
    ON tc_cert_id=c_cert_id
    WHERE t_therapist_id=[t_therapist_id] AND c_cert_id=[c_cert_id]

```

```

In function getTherapistPos(res, mysql, context, therapist_id, complete){
    SELECT t_therapist_id, t_name_first, t_name_last, p_position_id, p_name
FROM Therapists LEFT JOIN Therapists_positions ON t_therapist_id=tp_therapist_id
LEFT JOIN Positions ON tp_position_id=p_position_id WHERE
t_therapist_id=[t_therapist_id]

```

```

In router.post('/', function(req, res){

```

```

        INSERT INTO Therapists [t_name_first], [t_name_last] ;
        INSERT INTO Therapists_positions (tp_therapist_id, tp_position_id) VALUES
        ((SELECT t_therapist_id FROM Therapists WHERE t_name_first=? AND
        t_name_last=?), ?) INSERT INTO Therapists_positions (tp_therapist_id,
        tp_position_id) VALUES ((SELECT t_therapist_id FROM Therapists WHERE
        t_name_first=? AND t_name_last=?), ?)

```

```

In function getTherapistCert(res, mysql, context, therapist_id, cert_id, complete){
    SELECT t_therapist_id, t_name_first, t_name_last, c_cert_id, c_name,
    DATE_FORMAT(`date_acquired`, '%Y-%m-%d') AS `date_acquired`,
    DATE_FORMAT(`date_expires`, '%Y-%m-%d') AS `date_expires`
    FROM Therapists
    LEFT JOIN Therapists_certs
    ON t_therapist_id=tc_therapist_id
    LEFT JOIN Certs
    ON tc_cert_id=c_cert_id
    WHERE t_therapist_id=[t_therapist_id] AND c_cert_id=[c_cert_id]

```

```

In function getTherapistPosAndCert
    SELECT t_therapist_id, t_name_first, t_name_last, p_position_id, c_cert_id,
    date_acquired, date_expires
    FROM Therapists
    LEFT JOIN Therapists_positions
    ON t_therapist_id=tp_therapist_id
    LEFT JOIN Positions
    ON tp_position_id=p_position_id
    LEFT JOIN Therapists_certs
    ON t_therapist_id=tc_therapist_id
    LEFT JOIN Certs
    ON tc_cert_id=c_cert_id
    WHERE t_therapist_id=[t_therapist_id];

```

```

In router.post('/', function(req, res){

```

```

    INSERT INTO Therapists (t_name_first, t_name_last)
    VALUES ([t_name_first], [t_name_last]);

```

```

    INSERT INTO Therapists_certs (tc_therapist_id, tc_cert_id, date_acquired,
    date_expires)
    VALUES ( (SELECT t_therapist_id FROM Therapists WHERE
    t_name_first=[t_name_first] AND t_name_last=[t_name_last]), [t_name_first],
    [t_name_last], [certs], [date_acquired], [date_expires]);

```

```

    INSERT INTO Therapists_positions (tp_therapist_id, tp_position_id)

```

```
VALUES ((SELECT t_therapist_id FROM Therapists WHERE
t_name_first=[t_name_first] AND t_name_last=[t_name_last]), [pos.forEach – which
is an array type variable])
```

```
In router.put('/:id', function(req, res){
    UPDATE Therapists
    SET t_name_first=[t_name_first], t_name_last=[t_name_last] WHERE
    t_therapist_id=[t_therapist_id];
```

```
In router.delete('/:id', function(req, res){
    DELETE FROM Therapists
    WHERE t_therapist_id=[t_therapist_id];
```

```
In router.delete('/:therapist_id/p/:position_id', function(req, res){
    DELETE FROM Therapists_positions
    WHERE tp_therapist_id = [tp_therapist_id] AND
    tp_position_id=[tp_position_id];
```

```
In router.delete('/:therapist_id/c/:cert_id', function(req, res){
    DELETE FROM Therapists_certs
    WHERE tc_therapist_id=[tc_therapist_id] AND tc_cert_id=[tc_cert_id];
```

For the Services table (in services.js)

```
In function getService(){
    SELECT s_service_id, s_name
    FROM Services
    WHERE s_service_id = [s_service_id];
```

```
In router.post('/', function(req, res){
    INSERT INTO Services (s_name) VALUES ([s_name]);
```

```
In router.put('/:id', function(req, res){
    UPDATE Services SET s_name=[s_name]
    WHERE s_service_id=[s_service_id];
```

```
In router.delete('/:id', function(req, res){
    DELETE FROM Services WHERE s_service_id = [s_service_id];
```

In Positions table (in positions.js)

```
In function getPosition(res, mysql, context, id, complete){
    SELECT p_position_id, p_name
    FROM Positions
```

```
WHERE p_position_id = [p_position_id];
```

```
In router.post('/', function(req, res){  
    INSERT INTO Positions (p_name) VALUES ([p_name]);
```

```
In router.put('/:id', function(req, res){  
    UPDATE Positions SET p_name=[p_name]  
    WHERE p_position_id=[p_position_id];
```

```
In router.delete('/:id', function(req, res){  
    DELETE FROM Positions WHERE p_position_id = [p_position_id];
```

In Locations table (in locations.js)

```
In function getLocation(res, mysql, context, id, complete){  
    SELECT l_location_id, l_name, address_st, address_city, address_state,  
address_zip  
    FROM Locations  
    WHERE l_location_id = [l_location_id];
```

```
In router.post('/', function(req, res){  
    INSERT INTO Locations (l_name, address_st, address_city, address_state,  
address_zip) VALUES ([l_name], [address_st], [address_city], [address_state],  
[address_zip]);
```

```
In router.put('/:id', function(req, res){  
    UPDATE Locations SET l_name=[l_name], address_st=[address_st],  
address_city=[address_city], address_state=[address_state],  
address_zip=[address_zip]  
    WHERE l_location_id=[l_location_id];
```

```
In router.delete('/:id', function(req, res){  
    DELETE FROM Locations WHERE l_location_id = [l_location_id];
```

In Clients table (in clients.js)

```
In function getClient(res, mysql, context, id, complete){  
    SELECT c_client_id, c_name_first, c_name_last, phone, email, address_st,  
address_city, address_state, address_zip, dob  
    FROM Clients  
    WHERE c_client_id=[c_client_id];
```

```
In router.post('/', function(req, res){  
    INSERT INTO Clients (c_name_first, c_name_last, phone, email, address_st,  
address_city, address_state, address_zip, dob ) VALUES ([c_name_first],
```

```
[c_name_last], [phone], [email], [address_st], [address_city] , [address_state],  
[address_zip]);
```

```
In router.put('/:id', function(req, res){  
    UPDATE Clients SET c_name_first=[c_name_first], c_name_last=[c_name_last],  
    phone=[phone], email=[email], address_st=[address_st],  
    address_city=[address_city], address_state=[address_state],  
    address_zip=[address_zip], dob=[dob]  
    WHERE c_client_id=[c_client_id];
```

```
In router.delete('/:id', function(req, res){  
    DELETE FROM Clients  
    WHERE c_client_id = [c_client_id];
```

In Certs table (in certs.js)

```
In function getCert(res, mysql, context, id, complete){  
    SELECT c_cert_id, c_name  
    FROM Certs  
    WHERE c_cert_id=[c_cert_id];
```

```
In router.post('/', function(req, res){  
    INSERT INTO Certs (c_name) VALUES ([c_cert_id]);
```

```
In router.put('/:id', function(req, res){  
    UPDATE Certs SET c_name=? WHERE c_cert_id=[c_cert_id];
```

```
In router.delete('/:id', function(req, res){  
    DELETE FROM Certs WHERE c_cert_id = [c_cert_id];
```

In Appointments table (in appointments.js)

```
In function getAppointment(res, mysql, context, id, complete){  
    SELECT a_visit_id, a_client_id, date, time, a_therapist_id, a_service_id,  
    a_location_id  
    FROM Appointments  
    WHERE a_client_id=[a_client_id] AND a_visit_id=[a_visit_id];
```

```
In function getTherapist(res, mysql, context, id, complete){  
    SELECT t_therapist_id, t_name_first, t_name_last  
    FROM Therapists  
    WHERE t_therapist_id=[t_therapist_id];
```

```
In function getClient(res, mysql, context, id, complete){
```

```

SELECT c_client_id, c_name_first, c_name_last
FROM Clients WHERE c_client_id=[c_client_id];

In function getService(res, mysql, context, id, complete){
    SELECT s_service_id, s_name
    FROM Services
    WHERE s_service_id=[s_service_id];

In function getLocation(res, mysql, context, id, complete){
    SELECT l_location_id, l_name
    FROM Locations
    WHERE l_location_id=[l_location_id];

In router.post('/', function(req, res){
    INSERT INTO Appointments (date, time) VALUES ([date], [time]);

```

### **Website Functionality:**

There is a webpage on the website for every entity. Each respective page consists of the option to **add** a new version of that entity – in the form of a form. And the therapists page provides the option to update a given massage therapist, and the option to delete that therapists associated attributes. Namely, the certifications and positions, if any, that massage therapist holds. And finally, the option to delete the therapist entirely and cascading through to delete the associated positions and certifications.

In addition to an add option, each entity page also shows a table with the populated data already stored in the database for that particular entity and any relationships with which it is associated.

### **REQUIREMENTS:**

Outline – See top of document  
 Database Outline – See top of document  
 ER Diagram – See attached pdf  
 Schema – see attached pdf  
 Data Definitions – see middle section of current document  
 Data Manipulations – see middle section of current document  
 Website Functionality – <http://flip1.engr.oregonstate.edu:9110>