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Final Project:
Planning for Endless Adventures

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1 INTRODUCTION

This final project database driven website will be created around the idea of a basic travel plan for adventurous travelers to use and play around with to their desires. The purpose of developing this type of database is to help its users figure out and organize travel plans for potential trip around the world, or any other places or destinations their imagination can take them. There are a great variety of travel plans one can accomplish, from simple to more complex, where a database would be useful to help organize such great amount and jumbled up ideas.

2 PROJECT PLANS

2.1 Database Outline

2.1.1 Entities

Each of these entities will have their associated id number as additional attribute, indicating that there is a difference between each variant.

1) **Travelers** (*traveler*)

   They will have...
   - first names (*fname*)
   - last names (*lname*)
   - phone numbers (*phone*)
   - current happiness level on a scale from 1 to 10 in regards to their trip planning (*happiness*)

   All of these attributes will have to be required for the user to enter. Ideally, each traveler should have a first name, last name, and a phone number in order to travel. Travelers may have the same names and phone numbers (a phone number that can contact a number of travelers). Optional and just fun in order to get the travels excited and motivated to plan for a potential or actual adventure, there is will be a spot in the database for the traveler to indicate their current happiness level on a scale from 1 to 10, where they will just input a numeric value to state their perceived level.

2) **Destinations** (*destination*)

   There are many locations a traveler can travel to, consisting of...
   - towns (*town*)
   - cities (*city*)
   - states (*state*)
   - countries (*country*)

   Either of these attributes are optional, but a travel will have to choose at least one of these destination types, being either a town, city, state, or country at minimum. All of these destination types will be stated down as names within a travel plan.

3) **Trip Duration** (*trip_ duration*)

   The length of a trip can vary, consisting of a...
   - number of days the trip will be (*days*)
   - beginning travel date (*begin*)
   - ending travel date (*end*)
   - time of a day a trip can start (*stime*)
   - time of a day a trip can end (*etime*)

   For this simple travel planner database, each adventure's length can be described with the number of days a traveler is planning on being on a trip, a set of a beginning travel date and ending travel date, or just a beginning travel date where the adventure is not intended to end. The traveler will have to choose one of these descriptors for the length of time there trip will take or at least when it will start. Optionally, the traveler can input the time of day for a beginning travel date or an ending date, depending how detailed the travel will like to be.

4) **Activities** (*activity*)

There are a variety of activities a traveler can pursue when traveling, which can consist of...

- the name of the activity (*aname*)
- either being a leisure or more strenuous activity (*energy*)
- the length of time the activity can take in hours (*length*)
- if an activity will cost money to do or not (*cost*)

A traveler can choose the option to add an activity to their travel or not, it is not required to be started. But if an activity is desired, the name of the activity is required. The other attributes of the activity might not be known at the time, so they are not required in order to add an activity into the database.

2.1.2 Relationships

1) **Travelers *must be going to at one* destination** (*going*)

This is a many-to-many relationship, because travelers can be going to many destinations and at least one, and a destination can be traveled by many travelers, but a destination does not have to be traveled.

2) **Destinations *must be associated to at least a single* trip duration** (*associated*)

This is a one-to-many relationship, where a destination can be visited zero to multiple times, meaning multiple trip durations, but there can only be one type of trip duration, where a trip duration can only be associated with one destination.
For example, you can visit a single destination multiple times, but you cannot visit two or more destinations at the same time.
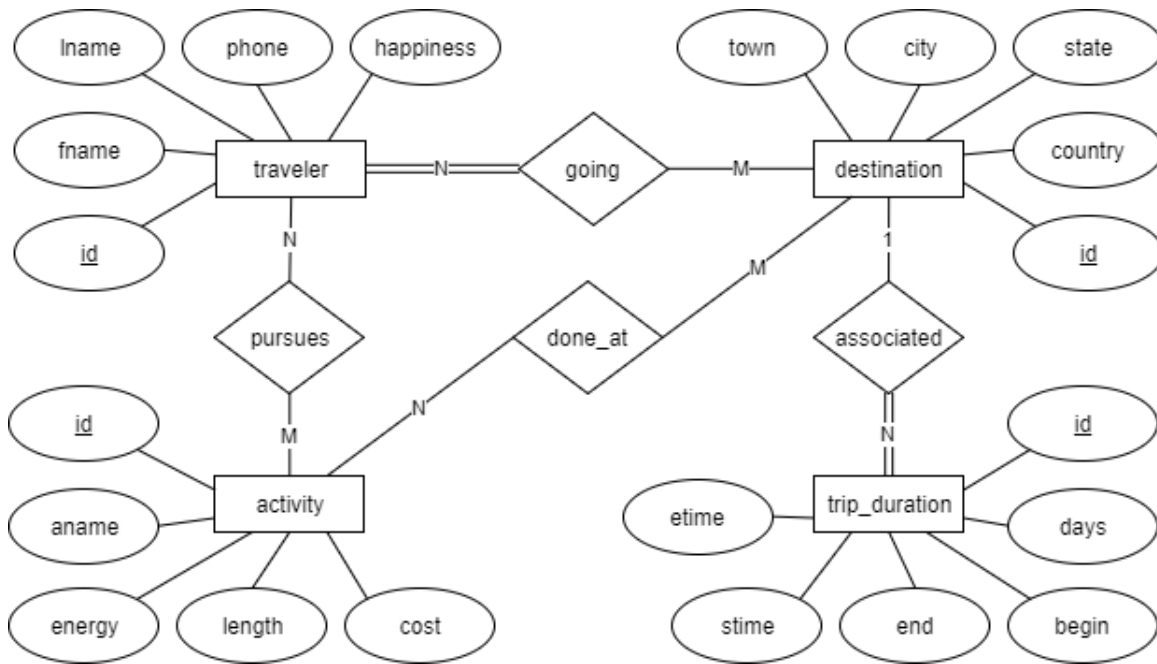
3) **Travelers *can pursue many* activities** (*purses*)

This is a many-to-many relationship, because many travelers can pursue many types of activities, but an activity does not have to pursued by a traveler, and a traveler does not have to do an activity.
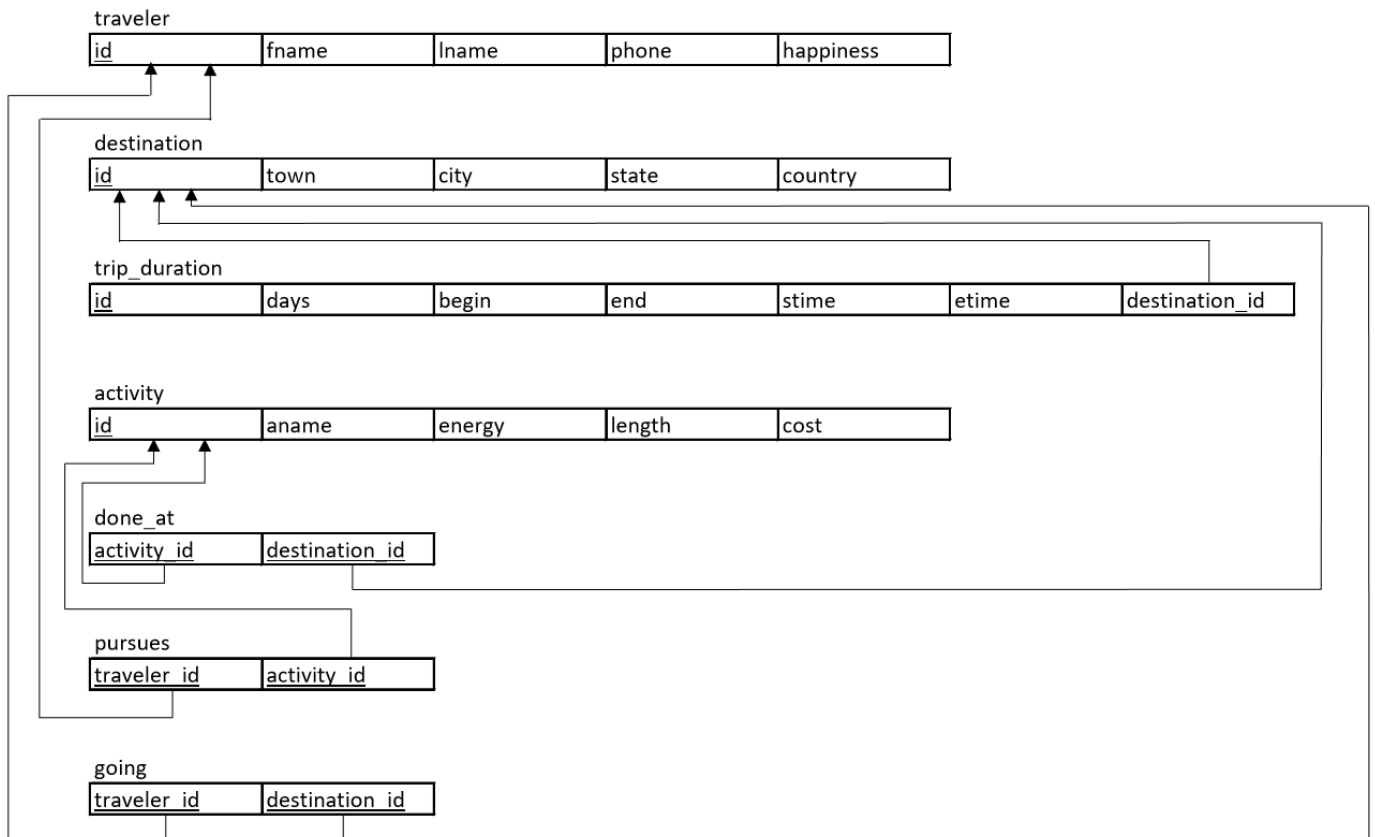
4) **Activities *can be done at many* destinations** (*done_ at*)

This is a many-to-many relationship, because many types of activities can be done at many destinations and many destinations can inspire many activities, but an activity does not have to be at a destination and likewise, a destination does not need to have an activity.

2.2 ER Diagram

2.3 Schema

3 QUERIES

3.1 Data Definition Queries

```sql
-- Traveler Entity Table

CREATE TABLE 'traveler'(
'id' int(11) AUTO_INCREMENT NOT NULL,
'fname' varchar(255) NOT NULL,
'lname' varchar(255) NOT NULL,
'phone' varchar(255) NOT NULL,
'happiness' TINYINT,
PRIMARY KEY('id')
)ENGINE=InnoDB;

-- Destination Entity Table

CREATE TABLE 'destination'(
'id' int(11) AUTO_INCREMENT NOT NULL,
'town' varchar(255),
'city' varchar(255),
'state' varchar(255),
'country' varchar(255),
PRIMARY KEY('id'),
UNIQUE KEY('town','city','state','country')
)ENGINE=InnoDB;

-- Trip Duration Entity Table

CREATE TABLE 'trip_duration'(
'id' int(11) AUTO_INCREMENT NOT NULL,
'days' INT,
'begin' DATE,
'end' DATE,
'stime' TIME,
'etime' TIME,
'destination_id' INT,
PRIMARY KEY('id'),
FOREIGN KEY('destination_id') REFERENCES 'destination'('id'),
)ENGINE=InnoDB;

-- Activity Entity Table

CREATE TABLE 'activity'(
'id' int(11) AUTO_INCREMENT NOT NULL,
'aname' varchar(255),
'energy' varchar(255),
'length' INT,
'cost' varchar(255),
PRIMARY KEY('id'),
UNIQUE KEY('aname')
)ENGINE=InnoDB;
```

```
-- Done At Relationship Table

CREATE TABLE 'done_at'(
'activity_id' INT,
'destination_id' INT,
FOREIGN KEY('activity_id') REFERENCES 'activity'('id'),
FOREIGN KEY('destination_id') REFERENCES 'destination'('id'),
PRIMARY KEY('activity_id','destination_id')
)ENGINE=InnoDB;

-- Purses Relationship Table

CREATE TABLE 'pursues'(
'traveler_id' INT,
'activity_id' INT,
FOREIGN KEY('traveler_id') REFERENCES 'traveler'('id'),
FOREIGN KEY('activity_id') REFERENCES 'activity'('id'),
PRIMARY KEY('traveler_id','activity_id')
)ENGINE=InnoDB;

-- Going Relationship Table

CREATE TABLE 'going'(
'traveler_id' INT,
'destination_id' INT,
FOREIGN KEY('traveler_id') REFERENCES 'traveler'('id'),
FOREIGN KEY('destination_id') REFERENCES 'destination'('id'),
PRIMARY KEY('traveler_id','destination_id')
)ENGINE=InnoDB;
```

3.2 Data Manipulation Queries

3.2.1 Insertion Queries

```
-- Inserting into the traveler Table

INSERT INTO traveler (fname, lname, phone, happiness)
VALUES ("[fnameInput]", "[lnameInput]", "[phoneInput]", "[happinessInput]");

-- Inserting into the destination Table

INSERT INTO destination (town, city, state, country)
VALUES ("[townInput]", "[cityInput]", "[stateInput]", "[countryInput]");

INSERT INTO destination (town, state, country)
VALUES ("[townInput]", "[stateInput]", "[countryInput]");

INSERT INTO destination (city, state, country)
VALUES ("[cityInput]", "[stateInput]", "[countryInput]");

INSERT INTO destination (town, country)
VALUES ("[townInput]", "[countryInput]");

INSERT INTO destination (city, country)
VALUES ("[cityInput]", "[countryInput]");

INSERT INTO destination (state, country)
VALUES ("[stateInput]", "[countryInput]");
```

```
INSERT INTO destination (city, state)
VALUES ("[cityInput]", "[stateInput]");

INSERT INTO destination (town, state)
VALUES ("[townInput]", "[stateInput]");

INSERT INTO destination (town)
VALUES ("[townInput]");

INSERT INTO destination (city)
VALUES ("[cityInput]");

INSERT INTO destination (state)
VALUES ("[stateInput]");

INSERT INTO destination (country)
VALUES ("[countryInput]");

-- Inserting into the trip_duration Table

INSERT INTO trip_duration (days, begin, end, stime, etime)
VALUES ("[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]");

INSERT INTO trip_duration (days, begin, end, etime)
VALUES ("[daysInput]", "[beginInput]", "[endInput]", "[etimeInput]");

INSERT INTO trip_duration (days, begin, end, stime)
VALUES ("[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]");

INSERT INTO trip_duration (begin, end, stime, etime)
VALUES ("[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]");

INSERT INTO trip_duration (days, begin, stime)
VALUES ("[daysInput]", "[beginInput]", "[stimeInput]");

INSERT INTO trip_duration (days, begin, end)
VALUES ("[daysInput]", "[beginInput]", "[endInput]");

INSERT INTO trip_duration (begin, end, etime)
VALUES ("[daysInput]", "[beginInput]", "[endInput]", "[etimeInput]");

INSERT INTO trip_duration (begin, end, stime)
VALUES ("[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]");

INSERT INTO trip_duration (begin, stime)
VALUES ("[daysInput]", "[beginInput]", "[stimeInput]");

INSERT INTO trip_duration (begin, end)
VALUES ("[daysInput]", "[beginInput]", "[endInput]");

INSERT INTO trip_duration (days, begin)
VALUES ("[daysInput]", "[beginInput]");

INSERT INTO trip_duration (days)
VALUES ("[daysInput]");

INSERT INTO trip_duration (begin)
VALUES ("[beginInput]");
```

```
-- Inserting data into the trip_duration table using subqueries to look up data as needed

INSERT INTO trip_duration (destination_id, days, begin, end, stime, etime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]", city="[cityInput]", state="[stateInput]", country="[countryInput]";

INSERT INTO trip_duration (destination_id, days, begin, end, stime, etime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]", state="[stateInput]", country="[countryInput]";

INSERT INTO trip_duration (destination_id, days, begin, end, stime, etime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE city="[cityInput]", state="[stateInput]", country="[countryInput]";

INSERT INTO trip_duration (destination_id, days, begin, end, stime, etime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]", country="[countryInput]";

INSERT INTO trip_duration (destination_id, days, begin, end, stime, etime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE city="[cityInput]", country="[countryInput]";

INSERT INTO trip_duration (destination_id, days, begin, end, stime, etime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE state="[stateInput]", country="[countryInput]";

INSERT INTO trip_duration (destination_id, days, begin, end, stime, etime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE city="[cityInput]", state="[stateInput]";

INSERT INTO trip_duration (destination_id, days, begin, end, stime, etime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]", state="[stateInput]";

INSERT INTO trip_duration (destination_id, days, begin, end, stime, etime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]";

INSERT INTO trip_duration (destination_id, days, begin, end, stime, etime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE city="[cityInput]";

INSERT INTO trip_duration (destination_id, days, begin, end, stime, etime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE state="[stateInput]";
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INSERT INTO trip_duration (destination_id, days, begin, end, stime, etime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE country="[countryInput]";


INSERT INTO trip_duration (destination_id, begin, end, stime, etime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]", city="[cityInput]", state="[stateInput]", country="[countryInput]";


INSERT INTO trip_duration (destination_id, begin, end, stime, etime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]", state="[stateInput]", country="[countryInput]";


INSERT INTO trip_duration (destination_id, begin, end, stime, etime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE city="[cityInput]", state="[stateInput]", country="[countryInput]";


INSERT INTO trip_duration (destination_id,  begin, end, stime, etime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]", country="[countryInput]";


INSERT INTO trip_duration (destination_id, begin, end, stime, etime)
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FROM destination
WHERE city="[cityInput]", country="[countryInput]";


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FROM destination
WHERE state="[stateInput]", country="[countryInput]";


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FROM destination
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FROM destination
WHERE town="[townInput]";


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SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE city="[cityInput]";


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FROM destination
WHERE country="[countryInput]";


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FROM destination
WHERE state="[stateInput]";


INSERT INTO trip_duration (destination_id, days, begin, end, stime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE country="[countryInput]";


INSERT INTO trip_duration (destination_id, days, begin, stime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
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WHERE town="[townInput]", city="[cityInput]", state="[stateInput]", country="[countryInput]";


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FROM destination
WHERE state="[stateInput]", country="[countryInput]";


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SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]", state="[stateInput]";


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INSERT INTO trip_duration (destination_id, days, begin, stime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE city="[cityInput]";


INSERT INTO trip_duration (destination_id, days, begin, stime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE state="[stateInput]";


INSERT INTO trip_duration (destination_id, days, begin, stime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE country="[countryInput]";


INSERT INTO trip_duration (destination_id, days, begin, end)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]", city="[cityInput]", state="[stateInput]", country="[countryInput]";


INSERT INTO trip_duration (destination_id, days, begin, end)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]", state="[stateInput]", country="[countryInput]";


INSERT INTO trip_duration (destination_id, days, begin, end)
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FROM destination
WHERE town="[townInput]", state="[stateInput]";


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WHERE town="[townInput]";
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INSERT INTO trip_duration (destination_id, days, begin, end)
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FROM destination
WHERE city="[cityInput]";


INSERT INTO trip_duration (destination_id, days, begin, end)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE state="[stateInput]";


INSERT INTO trip_duration (destination_id, days, begin, end)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE country="[countryInput]";


INSERT INTO trip_duration (destination_id, begin, end, etime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]", city="[cityInput]", state="[stateInput]", country="[countryInput]";


INSERT INTO trip_duration (destination_id, begin, end, etime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]", state="[stateInput]", country="[countryInput]";


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WHERE city="[cityInput]", country="[countryInput]";


INSERT INTO trip_duration (destination_id, begin, end, etime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE state="[stateInput]", country="[countryInput]";


INSERT INTO trip_duration (destination_id, begin, end, etime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE city="[cityInput]", state="[stateInput]";


INSERT INTO trip_duration (destination_id, begin, end, etime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]", state="[stateInput]";
```

```
INSERT INTO trip_duration (destination_id, begin, end, etime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]";


INSERT INTO trip_duration (destination_id, begin, end, etime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE city="[cityInput]";


INSERT INTO trip_duration (destination_id, begin, end, etime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE state="[stateInput]";


INSERT INTO trip_duration (destination_id, begin, end, etime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE country="[countryInput]";


INSERT INTO trip_duration (destination_id,  begin, end, stime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]", city="[cityInput]", state="[stateInput]", country="[countryInput]";


INSERT INTO trip_duration (destination_id, begin, end, stime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]", state="[stateInput]", country="[countryInput]";


INSERT INTO trip_duration (destination_id, begin, end, stime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE city="[cityInput]", state="[stateInput]", country="[countryInput]";


INSERT INTO trip_duration (destination_id, begin, end, stime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]", country="[countryInput]";


INSERT INTO trip_duration (destination_id, begin, end, stime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE city="[cityInput]", country="[countryInput]";


INSERT INTO trip_duration (destination_id, begin, end, stime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE state="[stateInput]", country="[countryInput]";


INSERT INTO trip_duration (destination_id, begin, end, stime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE city="[cityInput]", state="[stateInput]";


INSERT INTO trip_duration (destination_id, begin, end, stime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]", state="[stateInput]";
```

```
INSERT INTO trip_duration (destination_id, begin, end, stime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]";


INSERT INTO trip_duration (destination_id, begin, end, stime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE city="[cityInput]";


INSERT INTO trip_duration (destination_id, begin, end, stime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE state="[stateInput]";


INSERT INTO trip_duration (destination_id, begin, end, stime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE country="[countryInput]";


INSERT INTO trip_duration (destination_id, begin, stime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]", city="[cityInput]", state="[stateInput]", country="[countryInput]";


INSERT INTO trip_duration (destination_id, begin, stime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]", state="[stateInput]", country="[countryInput]";


INSERT INTO trip_duration (destination_id, begin, stime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE city="[cityInput]", state="[stateInput]", country="[countryInput]";


INSERT INTO trip_duration (destination_id, begin, stime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]", country="[countryInput]";


INSERT INTO trip_duration (destination_id, begin, stime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE city="[cityInput]", country="[countryInput]";


INSERT INTO trip_duration (destination_id, begin, stime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE state="[stateInput]", country="[countryInput]";


INSERT INTO trip_duration (destination_id, begin, stime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE city="[cityInput]", state="[stateInput]";
```

```
INSERT INTO trip_duration (destination_id, begin, stime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]", state="[stateInput]";

INSERT INTO trip_duration (destination_id, begin, stime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]";

INSERT INTO trip_duration (destination_id, begin, stime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE city="[cityInput]";

INSERT INTO trip_duration (destination_id, begin, stime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE state="[stateInput]";

INSERT INTO trip_duration (destination_id, begin, stime)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE country="[countryInput]";

INSERT INTO trip_duration (destination_id, begin, end)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]", city="[cityInput]", state="[stateInput]", country="[countryInput]";

INSERT INTO trip_duration (destination_id, begin, end)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]", state="[stateInput]", country="[countryInput]";

INSERT INTO trip_duration (destination_id, begin, end)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE city="[cityInput]", state="[stateInput]", country="[countryInput]";

INSERT INTO trip_duration (destination_id, begin, end)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]", country="[countryInput]";

INSERT INTO trip_duration (destination_id, begin, end)
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FROM destination
WHERE city="[cityInput]", country="[countryInput]";

INSERT INTO trip_duration (destination_id, begin, end)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE state="[stateInput]", country="[countryInput]";

INSERT INTO trip_duration (destination_id, begin, end)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE city="[cityInput]", state="[stateInput]";
```

```
INSERT INTO trip_duration (destination_id, begin, end)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]", state="[stateInput]";

INSERT INTO trip_duration (destination_id, begin, end)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]";

INSERT INTO trip_duration (destination_id, begin, end)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE city="[cityInput]";

INSERT INTO trip_duration (destination_id, begin, end)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE state="[stateInput]";

INSERT INTO trip_duration (destination_id, begin, end)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE country="[countryInput]";

INSERT INTO trip_duration (destination_id, days, begin)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]", city="[cityInput]", state="[stateInput]", country="[countryInput]";

INSERT INTO trip_duration (destination_id, days, begin)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]", state="[stateInput]", country="[countryInput]";

INSERT INTO trip_duration (destination_id, days, begin)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE city="[cityInput]", state="[stateInput]", country="[countryInput]";

INSERT INTO trip_duration (destination_id, days, begin)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]", country="[countryInput]";

INSERT INTO trip_duration (destination_id, days, begin)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE city="[cityInput]", country="[countryInput]";

INSERT INTO trip_duration (destination_id, days, begin)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE state="[stateInput]", country="[countryInput]";
```

```
INSERT INTO trip_duration (destination_id, days, begin)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE city="[cityInput]", state="[stateInput]";


INSERT INTO trip_duration (destination_id, days, begin)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]", state="[stateInput]";


INSERT INTO trip_duration (destination_id, days, begin)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]";


INSERT INTO trip_duration (destination_id, days, begin)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE city="[cityInput]";


INSERT INTO trip_duration (destination_id, days, begin)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE state="[stateInput]";


INSERT INTO trip_duration (destination_id, days, begin)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE country="[countryInput]";


INSERT INTO trip_duration (destination_id, days)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]", city="[cityInput]", state="[stateInput]", country="[countryInput]";


INSERT INTO trip_duration (destination_id, days)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]", state="[stateInput]", country="[countryInput]";


INSERT INTO trip_duration (destination_id, days)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE city="[cityInput]", state="[stateInput]", country="[countryInput]";


INSERT INTO trip_duration (destination_id, days)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]", country="[countryInput]";


INSERT INTO trip_duration (destination_id, days)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE city="[cityInput]", country="[countryInput]";


INSERT INTO trip_duration (destination_id, days)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE state="[stateInput]", country="[countryInput]";
```

```
INSERT INTO trip_duration (destination_id, days)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE city="[cityInput]", state="[stateInput]";

INSERT INTO trip_duration (destination_id, days)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]", state="[stateInput]";

INSERT INTO trip_duration (destination_id, days)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]";

INSERT INTO trip_duration (destination_id, days)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE city="[cityInput]";

INSERT INTO trip_duration (destination_id, days)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE state="[stateInput]";

INSERT INTO trip_duration (destination_id, days)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE country="[countryInput]";

INSERT INTO trip_duration (destination_id, begin)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]", city="[cityInput]", state="[stateInput]", country="[countryInput]";

INSERT INTO trip_duration (destination_id, begin)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]", state="[stateInput]", country="[countryInput]";

INSERT INTO trip_duration (destination_id, begin)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE city="[cityInput]", state="[stateInput]", country="[countryInput]";

INSERT INTO trip_duration (destination_id, begin)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]", country="[countryInput]";

INSERT INTO trip_duration (destination_id, begin)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE city="[cityInput]", country="[countryInput]";
```

```
INSERT INTO trip_duration (destination_id, begin)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE state="[stateInput]", country="[countryInput]";


INSERT INTO trip_duration (destination_id, begin)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE city="[cityInput]", state="[stateInput]";


INSERT INTO trip_duration (destination_id, begin)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]", state="[stateInput]";


INSERT INTO trip_duration (destination_id, begin)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE town="[townInput]";


INSERT INTO trip_duration (destination_id, begin)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE city="[cityInput]";


INSERT INTO trip_duration (destination_id, begin)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE state="[stateInput]";


INSERT INTO trip_duration (destination_id, begin)
SELECT id, "[daysInput]", "[beginInput]", "[endInput]", "[stimeInput]", "[etimeInput]"
FROM destination
WHERE country="[countryInput]";


-- Inserting into the activity Table

INSERT INTO activity (aname, energy, length, cost)
VALUES ("[anameInput]", "[energyInput]", "[lengthInput]", "[costInput]");

INSERT INTO activity (aname, energy, length)
VALUES ("[anameInput]", "[energyInput]", "[lengthInput]");

INSERT INTO activity (aname, energy, cost)
VALUES ("[anameInput]", "[energyInput]", "[costInput]");

INSERT INTO activity (aname, length, cost)
VALUES ("[anameInput]", "[lengthInput]", "[costInput]");

INSERT INTO activity (aname, energy)
VALUES ("[anameInput]", "[energyInput]");

INSERT INTO activity (aname, length)
VALUES ("[anameInput]", "[lengthInput]");

INSERT INTO activity (aname, cost)
VALUES ("[anameInput]", "[costInput]");
```

```
INSERT INTO activity (aname)
VALUES ("[anameInput]");

-- Inserting data into the done_at table using subqueries to look up data as needed

INSERT INTO done_at (activity_id, destination_id)
VALUES(
(SELECT id FROM activity WHERE aname="[anameInput]", energy="[energyInput]",
 length="[lengthInput]", cost="[costInput]"),
(SELECT id FROM destination WHERE town="[townInput]" AND city="[cityInput]" AND
 state="[stateInput]" AND country="[countryInput]")
);

-- Inserting data into the pursues table using subqueries to look up data as needed

INSERT INTO done_at (traveler_id, activity_id)
VALUES(
(SELECT id FROM traveler WHERE fname="[fnameInput]" AND lname="[lnameInput]" AND
 phone="[phoneInput]" AND happiness="[happinessInput]"),
(SELECT id FROM activity WHERE aname="[anameInput]", energy="[energyInput]",
 length="[lengthInput]", cost="[costInput]")
);

-- Inserting data into the going table using subqueries to look up data as needed

INSERT INTO done_at (traveler_id, destination_id)
VALUES(
(SELECT id FROM traveler WHERE fname="[fnameInput]" AND lname="[lnameInput]" AND
 phone="[phoneInput]" AND happiness="[happinessInput]"),
(SELECT id FROM destination WHERE town="[townInput]" AND city="[cityInput]" AND
 state="[stateInput]" AND country="[countryInput]")
);
```

3.2.2 Drop Queries

```
-- Dropping the traveler Table

DROP TABLE traveler;

-- Dropping the destination Table

DROP TABLE destination;

-- Dropping the trip_duration Table

DROP TABLE trip_duration;

-- Dropping the activity Table

DROP TABLE activity;

-- Dropping the done_at Table

DROP TABLE done_at;

-- Dropping the pursues Table

DROP TABLE pursues;
```

```
-- Dropping the going Table

DROP TABLE going;
```

3.2.3 Selection Queries

With these selection queries, what the user wants to select can to altered where the
user does not have to select all of the attributes in a table, and also for the
WHERE condition, determining what conditions and filtration they want their selection
to display to be shown, can also be reduced in what is written below, where these
statements below have WHERE conditions for every attribute in a table, with the
possibility of choosing by its id, which cannot also be the case if desired.

```
-- Selecting from the traveler Table

SELECT fname, lname, phone, happiness FROM traveler
WHERE fname="[fnameInput]" AND lname="[lnameInput]" AND phone="[phoneInput]"
AND happiness="[happinessInput]";

-- Selecting from the destination Table

SELECT town, city, state, country FROM destination
WHERE town="[townInput]" AND city="[cityInput]" AND state="[stateInput]"
AND country="[countryInput]";

-- Selecting from the trip_duration Table

SELECT days, begin, end, stime, etime FROM trip_duration
WHERE days="[daysInput]" AND begin="[beginInput]" AND end="[endInput]" AND
stime = "[stimeInput]" AND etime="[etimeInput]";

-- Selecting from the activity Table

SELECT aname, energy, length, cost FROM activity
WHERE aname="[anameInput]" AND energy="[energyInput]" AND
length="[lengthInput]" AND cost="[costInput]";
```

3.2.4 Deletion Queries

For the deletion queries, AND or OR can be use in the WHERE condition,
and in regards to the WHERE condition, the combination of the attributes
in question can vary depending on the search of the user, in addition with
the possibility of choosing by its id.

Below, these deletion queries show all of the attributes having a condition
being connected with the keyword AND, which can be altered and varied with
the keyword OR or depending on the wanted selection for deletion.

```
-- Deleting from the traveler Table

DELETE FROM traveler
WHERE fname="[fnameInput]" AND lname="[lnameInput]" AND phone="[phoneInput]"
AND happiness="[happinessInput]";
```

```
-- Deleting from the destination Table

DELETE FROM destination
WHERE town="[townInput]" AND city="[cityInput]" AND state="[stateInput]"
AND country="[countryInput]";

-- Deleting from the trip_duration Table

DELETE FROM trip_duration
WHERE days="[daysInput]" AND begin="[beginInput]" AND end="[endInput]" AND
stime = "[stimeInput]" AND etime="[etimeInput]";

-- Deleting from the activity Table

DELETE FROM activity
WHERE aname="[anameInput]" AND energy="[energyInput]" AND
length="[lengthInput]" AND cost="[costInput]";
```

3.2.5 Update Queries

For the update queries, AND or OR can be use in the WHERE condition,
and in regards to the WHERE condition, the combination of the attributes
in question can vary depending on the search of the user, in addition with
the possibility of choosing by its id.

Below, these update queries show all of the attributes having a condition
being connected with the keyword AND, which can be altered and varied with
the keyword OR or depending on the wanted selection for deletion.

```
-- Updating the traveler Table

UPDATE traveler
SET fname="[fnameInput]", lname="[lnameInput]", phone="[phoneInput]",
happiness="[happinessInput]"
WHERE fname="[fnameInput]" AND lname="[lnameInput]" AND phone="[phoneInput]"
AND happiness="[happinessInput]";

-- Updating the destination Table

UPDATE destination
SET town="[townInput]", city="[cityInput]", state="[stateInput]",
country="[countryInput]"
WHERE town="[townInput]" AND city="[cityInput]" AND state="[stateInput]"
AND country="[countryInput]";

-- Updating the trip_duration Table

UPDATE trip_duration
SET days="[daysInput]", begin="[beginInput]", end="[endInput]",
stime = "[stimeInput]", etime="[etimeInput]"
WHERE days="[daysInput]" AND begin="[beginInput]" AND end="[endInput]" AND
stime = "[stimeInput]" AND etime="[etimeInput]";
```

```
-- Updating the activity Table

UPDATE activity
SET aname="[anameInput]", energy="[energyInput]", length="[lengthInput]",
cost="[costInput]"
WHERE aname="[anameInput]" AND energy="[energyInput]" AND
length="[lengthInput]" AND cost="[costInput]";
```