Account(UserID, Username, Password, Email, Phone)

Reviewer(UserID\*, BeachID\*, ReviewDate)

Beach(BeachID, BeachName, Country, City, Suburb, PollutionRating, WaterRating, SceneryRating, Lifeguard, DogFriendly, WrittenReview, FullRating)

Dependencies:

**Account:**

UserID → Username, Password, Phone

**Reviewer:**

UserID, BeachID → ReviewDate

**Beach:**

BeachID → BeachName, Country, City, Suburb, PollutionRating, WaterRating, SceneryRating, Lifeguard, DogFriendlly, WrittenReview, FullRating

***SQL Commands:***

CREATE DATABASE beach;

USE beach;

CREATE TABLE Account (

user\_id INTEGER PRIMARY KEY AUTO\_INCREMENT NOT NULL,

username VARCHAR(32) NOT NULL UNIQUE,

email VARCHAR(64) NOT NULL UNIQUE,

phone INT NOT NULL);

CREATE TABLE Beach(

beach\_id INT PRIMARY KEY NOT NULL AUTO\_INCREMENT,

beach\_name VARCHAR(128) NOT NULL,

country TEXT NOT NULL UNIQUE,

city TEXT NOT NULL,

suburb TEXT NOT NULL,

pollution\_rating INT,

water\_rating INT,

scenery\_rating INT,

lifeguard TEXT,

dog\_friendly TEXT,

written\_review TEXT,

full\_rating INT);

CREATE TABLE Reviewer (

user\_id INTEGER NOT NULL,

beach\_id INT NOT NULL,

review\_date DATETIME NOT NULL,

CONSTRAINT fk\_Account

FOREIGN KEY (user\_id)

REFERENCES Account(user\_id),

CONSTRAINT fk\_Beach

FOREIGN KEY (beach\_id)

REFERENCES Beach(beach\_id));

Composite key of Reviewer manually done in phpMyAdmin

INSERT INTO Account VALUES(0, "My Username", "123MyEmail@FakeEmailService.com", 123456789);

INSERT INTO Beach VALUES(0, "The Beach Name", "Australia", "Melbourne", "St. Kilda", 1, 2, 3, "YES", "NO", "This was a terrible beach!!!", 1);

Database test data:





