1. UML

11 Tables created.



1. Create tables:

CREATE SCHEMA IF NOT EXISTS SeattleTravelKit;

USE SeattleTravelKit;

DROP TABLE IF EXISTS HotelReviews;

DROP TABLE IF EXISTS Hotels;

DROP TABLE IF EXISTS Reviews;

DROP TABLE IF EXISTS RestaurantReviews;

DROP TABLE IF EXISTS AttractionReviews;

DROP TABLE IF EXISTS Attractions;

DROP TABLE IF EXISTS Crimes;

DROP TABLE IF EXISTS Restaurants;

DROP TABLE IF EXISTS Address;

DROP TABLE IF EXISTS CreditCards;

DROP TABLE IF EXISTS Users;

CREATE TABLE Hotels (

HotelId INT NOT NULL auto\_increment,

HotelName VARCHAR(255),

Rating DECIMAL(3, 2),

Website VARCHAR(255),

Phone VARCHAR(20),

Details TEXT,

Address TEXT,

PostalCode VARCHAR(20),

City VARCHAR(255),

CONSTRAINT pk\_Hotels\_HotelId PRIMARY KEY (HotelId)

);

CREATE TABLE HotelReviews (

ReviewId INT PRIMARY KEY,

HotelId INT,

Service FLOAT,

Cleanliness FLOAT,

Location FLOAT,

SleepQuality FLOAT,

CONSTRAINT fk\_HotelReviews\_HotelId FOREIGN KEY (HotelId)

REFERENCES Hotels (HotelId)

ON UPDATE CASCADE ON DELETE CASCADE

);

CREATE TABLE Attractions (

AttractionId INT AUTO\_INCREMENT PRIMARY KEY,

AttractionsName VARCHAR(255),

Phone VARCHAR(50),

Website VARCHAR(2048),

PostalCode VARCHAR(20),

Area VARCHAR(255)

);

CREATE TABLE Reviews (

ReviewId INT PRIMARY KEY,

UserName VARCHAR(255) NOT NULL,

CreatedTime TIMESTAMP NOT NULL,

Content TEXT NOT NULL,

Rating DECIMAL(3, 1) NOT NULL

);

CREATE TABLE RestaurantReviews (

reviewID INT PRIMARY KEY,

RestaurantID INT NOT NULL,

service DECIMAL(2,1) NOT NULL,

food\_quality DECIMAL(2,1) NOT NULL,

Operation\_time VARCHAR(11) NOT NULL

);

CREATE TABLE AttractionReviews (

reviewID INT NOT NULL,

AttractionID INT NOT NULL,

duration VARCHAR(15) NOT NULL,

PRIMARY KEY (reviewID, AttractionID)

);

CREATE TABLE Crimes (

CaseNumber VARCHAR(50),

CreatedDateTime DATETIME,

Address VARCHAR(255),

ZipCode VARCHAR(10),

CONSTRAINT pk\_Crimes\_CaseNumber PRIMARY KEY (CaseNumber)

);

CREATE TABLE Restaurants (

RestaurantID INT NOT NULL AUTO\_INCREMENT,

RestaurantName VARCHAR(255),

Address TEXT,

Rating DECIMAL(3, 2),

Area VARCHAR(255),

Category VARCHAR(255), -- Changed from ENUM to VARCHAR for broader compatibility

Service TEXT,

ZipCode VARCHAR(10),

CONSTRAINT pk\_Restaurants\_RestaurantID PRIMARY KEY (RestaurantID)

);

CREATE TABLE IF NOT EXISTS Users (

UserName VARCHAR(50) UNIQUE,

Email VARCHAR(100) UNIQUE,

Password VARCHAR(255),

FirstName VARCHAR(50),

LastName VARCHAR(50),

Phone VARCHAR(20),

CONSTRAINT pk\_Users\_UserName PRIMARY KEY (UserName)

);

CREATE TABLE IF NOT EXISTS Address (

UserName VARCHAR(255),

City VARCHAR(255),

Street1 VARCHAR(255),

Street2 VARCHAR(255),

State VARCHAR(255),

ZipCode VARCHAR(20),

Country VARCHAR(255),

CONSTRAINT pk\_Address\_UserName PRIMARY KEY (UserName),

CONSTRAINT fk\_Address\_UserName FOREIGN KEY (UserName)

REFERENCES Users (UserName)

ON UPDATE CASCADE ON DELETE CASCADE

);

CREATE TABLE CreditCards (

UserName VARCHAR(255),

CardNumber BIGINT NOT NULL,

Expiration VARCHAR(5),

CONSTRAINT pk\_CreditCard\_CardNumber PRIMARY KEY (CardNumber),

CONSTRAINT fk\_CreditCard\_UserName FOREIGN KEY (UserName)

REFERENCES Users (UserName)

ON UPDATE CASCADE ON DELETE CASCADE

);

LOAD DATA LOCAL INFILE '/Users/a123/Downloads/PM2/Hotels.csv' INTO TABLE Hotels

FIELDS TERMINATED BY ',' ENCLOSED BY '\"'

LINES TERMINATED BY '\n'

IGNORE 1 LINES;

LOAD DATA LOCAL INFILE "/Users/a123/Downloads/PM2/HotelReviews.csv" INTO TABLE HotelReviews

FIELDS TERMINATED BY ',' OPTIONALLY ENCLOSED BY '\"'

LINES TERMINATED BY '\n'

IGNORE 1 LINES;

LOAD DATA LOCAL INFILE '/Users/a123/Downloads/PM2/Reviews.csv' INTO TABLE Reviews

FIELDS TERMINATED BY ',' ENCLOSED BY '"'

LINES TERMINATED BY '\n'

IGNORE 1 LINES

(ReviewId, UserName, CreatedTime, Content, Rating);

LOAD DATA LOCAL INFILE '/Users/a123/Downloads/PM2/RestaurantReviews.csv' INTO TABLE RestaurantReviews

FIELDS TERMINATED BY ',' ENCLOSED BY '"'

LINES TERMINATED BY '\n'

IGNORE 1 LINES

(ReviewId, RestaurantID, service, food\_quality, Operation\_time);

LOAD DATA LOCAL INFILE '/Users/a123/Downloads/PM2/Reviews.csv' INTO TABLE Reviews

FIELDS TERMINATED BY ',' ENCLOSED BY '"'

LINES TERMINATED BY '\n'

IGNORE 1 LINES

(ReviewId, UserName, CreatedTime, Content, Rating);

LOAD DATA LOCAL INFILE '/Users/a123/Downloads/PM2/RestaurantReviews.csv' INTO TABLE RestaurantReviews

FIELDS TERMINATED BY ',' ENCLOSED BY '"'

LINES TERMINATED BY '\n'

IGNORE 1 LINES;

LOAD DATA LOCAL INFILE '/Users/a123/Downloads/PM2/Attractions.csv' INTO TABLE Attractions

FIELDS TERMINATED BY ',' ENCLOSED BY '"'

LINES TERMINATED BY '\n'

IGNORE 1 ROWS;

LOAD DATA LOCAL INFILE '/Users/a123/Downloads/PM2/AttractionReviews.csv' INTO TABLE AttractionReviews

FIELDS TERMINATED BY ',' ENCLOSED BY '"'

LINES TERMINATED BY '\n'

IGNORE 1 LINES;

LOAD DATA LOCAL INFILE "/Users/a123/Downloads/PM2/Crimes.csv" INTO TABLE Crimes

FIELDS TERMINATED BY ',' OPTIONALLY ENCLOSED BY '\"'

LINES TERMINATED BY '\n'

IGNORE 1 LINES;

LOAD DATA LOCAL INFILE "/Users/a123/Downloads/PM2/Restaurants.csv" INTO TABLE Restaurants

FIELDS TERMINATED BY ',' OPTIONALLY ENCLOSED BY '\"'

LINES TERMINATED BY '\n'

IGNORE 1 LINES;

LOAD DATA LOCAL INFILE '/Users/a123/Downloads/PM2/Users.csv' INTO TABLE Users

FIELDS TERMINATED BY ',' ENCLOSED BY ""

LINES TERMINATED BY '\n'

IGNORE 1 ROWS;

LOAD DATA LOCAL INFILE '/Users/a123/Downloads/PM2/Address.csv' INTO TABLE Address

FIELDS TERMINATED BY ',' ENCLOSED BY ""

LINES TERMINATED BY '\n'

IGNORE 1 ROWS;

LOAD DATA LOCAL INFILE '/Users/a123/Downloads/PM2/CreditCards.csv' INTO TABLE CreditCards

FIELDS TERMINATED BY ',' ENCLOSED BY ""

LINES TERMINATED BY '\n'

IGNORE 1 ROWS;

1. Rows in each table A screenshot of a computer

   Description automatically generated