-- SCHEMA: Tourism\_Management\_System

-- DROP SCHEMA "Tourism\_Management\_System" ;

DROP SCHEMA Tourism\_Management\_System CASCADE;

CREATE SCHEMA Tourism\_Management\_System;

SET search\_path TO Tourism\_Management\_System;

CREATE TABLE "User"(

UserID int PRIMARY KEY GENERATED ALWAYS AS IDENTITY,

Fname VARCHAR(10) NOT NULL,

Lname VARCHAR(10) NOT NULL,

Email VARCHAR(20) NOT NULL,

Phone Numeric(10) NOT NULL,

IsActive BOOLEAN DEFAULT TRUE,

Gender CHAR(1) CHECK (GENDER IN('M','F','O')),

AGE int

);

CREATE TABLE COPASSENGER(

UID int NOT NULL REFERENCES "User"(UserID),

Fname VARCHAR(10) NOT NULL,

Lname VARCHAR(10) NOT NULL,

Email VARCHAR(20),

Phone DECIMAL(12,0),

Gender CHAR(1) CHECK (GENDER IN('M','F','O')),

AGE int,

PRIMARY KEY(UID,FNAME,LNAME)

);

CREATE TABLE BOOKING(

BID int GENERATED ALWAYS AS IDENTITY UNIQUE,

UserID int REFERENCES "User"(UserID) NOT NULL,

Booking\_Date TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

TripStart\_Date Date NOT NULL,

TripEnd\_Date Date NOT NULL,

Amount float,

PRIMARY KEY(BID, UserID)

);

CREATE TABLE BOOKING\_COPASSENGER(

BID int NOT NULL REFERENCES BOOKING(BID),

UserID int NOT NULL,

Fname VARCHAR(10) NOT NULL,

Lname VARCHAR(10) NOT NULL,

FOREIGN KEY(BID,UserID) REFERENCES Booking(BID,UserID),

FOREIGN KEY(UserID,Fname,Lname) REFERENCES COPASSENGER(UID,FNAME,LNAME) ,

PRIMARY KEY(BID,UserID,Fname,Lname)

);

CREATE TABLE PACKAGE(

PACKAGEID int PRIMARY KEY GENERATED ALWAYS AS IDENTITY,

TITLE VARCHAR(15) NOT NULL,

DURATION int,

NO\_OF\_PEOPLE int,

IsActive BOOLEAN DEFAULT TRUE,

AMOUNT float

);

CREATE TABLE BOOKING\_FOR\_PACKAGE(

BID int NOT NULL REFERENCES BOOKING(BID),

PACKAGEID int NOT NULL REFERENCES PACKAGE(PACKAGEID),

PRIMARY KEY(BID,PACKAGEID)

);

CREATE TABLE LOCATION(

PINCODE Numeric(6) PRIMARY KEY,

CITY VARCHAR(30),

"state" VARCHAR(30)

);

CREATE TABLE TOURIST\_SPOTS(

SPOTID int PRIMARY KEY GENERATED ALWAYS AS IDENTITY,

"Name" VARCHAR(20) NOT NULL,

SEASON VARCHAR(10),

RATINGS FLOAT CHECK (RATINGS>=0 AND RATINGS<=5),

ADDRESS VARCHAR(100),

PINCODE Numeric(6) REFERENCES LOCATION(PINCODE)

);

CREATE TABLE Package\_Includes\_Spots(

PACKAGEID int NOT NULL REFERENCES PACKAGE(PACKAGEID),

SPOTID int NOT NULL REFERENCES TOURIST\_SPOTS(SPOTID) ON UPDATE CASCADE ON DELETE CASCADE,

PRIMARY KEY(PACKAGEID,SPOTID)

);

CREATE TABLE GUIDE(

GUIDEID int PRIMARY KEY GENERATED ALWAYS AS IDENTITY,

Fname VARCHAR(10) NOT NULL,

Lname VARCHAR(10) NOT NULL,

Email VARCHAR(20),

Phone Numeric(10) NOT NULL,

Gender CHAR(1) CHECK (GENDER IN('M','F','O')),

AGE int,

ADDRESS VARCHAR(100),

PINCODE Numeric(6) REFERENCES LOCATION(PINCODE)

);

CREATE TABLE Package\_Includes\_Guides(

PACKAGEID int NOT NULL REFERENCES PACKAGE(PACKAGEID),

GUIDEID int NOT NULL REFERENCES GUIDE(GUIDEID) ON DELETE CASCADE,

PRIMARY KEY(PACKAGEID,GUIDEID)

);

CREATE TABLE RESTAURANT(

RID int PRIMARY KEY GENERATED ALWAYS AS IDENTITY,

"Name" VARCHAR(50) NOT NULL,

PHONE Numeric(10),

FOODTYPE VARCHAR(20) CHECK (FOODTYPE IN('VEG','NON-VEG','BOTH')),

RATINGS float CHECK (RATINGS>=0 AND RATINGS<=5),

ADDRESS VARCHAR(100),

PINCODE Numeric(6) REFERENCES LOCATION(PINCODE)

);

CREATE TABLE RESTAURANT\_CUISINES(

RID int NOT NULL REFERENCES RESTAURANT(RID) ON DELETE CASCADE,

CUISINES VARCHAR(20) NOT NULL,

PRIMARY KEY(RID,CUISINES)

);

CREATE TABLE HOTEL(

HOTELID int PRIMARY KEY GENERATED ALWAYS AS IDENTITY,

"Name" VARCHAR(50) NOT NULL,

PHONE Numeric(10),

FOODTYPE VARCHAR(20) CHECK (FOODTYPE IN('VEG','NON-VEG','BOTH')),

RATINGS float CHECK (RATINGS>=0 AND RATINGS<=5),

ADDRESS VARCHAR(100),

IsActive BOOLEAN DEFAULT TRUE,

PINCODE Numeric(6) REFERENCES LOCATION(PINCODE)

);

CREATE TABLE HOTEL\_SERVICES(

HOTELID int NOT NULL REFERENCES HOTEL(HOTELID),

SERVICES VARCHAR(50) NOT NULL,

PRIMARY KEY(HOTELID,SERVICES)

);

CREATE TABLE ROOM(

HOTELID int NOT NULL REFERENCES HOTEL(HOTELID),

ROOM\_NO DECIMAL(3,0) NOT NULL,

PRIMARY KEY(HOTELID,ROOM\_NO),

"Type" VARCHAR(6) CHECK( "Type" IN('AC','NON-AC','HEATER')),

BEDS int CHECK(BEDS>0),

CAPACITY int CHECK(CAPACITY>0),

RATE FLOAT,

STATUS VARCHAR(15) CHECK (STATUS IN('AVAILABLE','NOT-AVAILABLE','BOOKED'))

);

CREATE TABLE ROOM\_FACILITIES(

HOTELID int NOT NULL,

ROOMNO int NOT NULL,

FACILITY VARCHAR(50) NOT NULL,

FOREIGN KEY (HOTELID,ROOMNO) REFERENCES ROOM(HOTELID,ROOM\_NO),

PRIMARY KEY(HOTELID,ROOMNO,FACILITY)

);

CREATE TABLE Package\_Includes\_Hotels(

PACKAGEID int NOT NULL REFERENCES PACKAGE(PACKAGEID) ,

HOTELID int NOT NULL,

ROOMNO int NOT NULL,

FOREIGN KEY (HOTELID,ROOMNO) REFERENCES ROOM(HOTELID,ROOM\_NO),

PRIMARY KEY(PACKAGEID,HOTELID,ROOMNO)

);

CREATE TABLE Booking\_For\_Hotel(

BID int REFERENCES BOOKING(BID) NOT NULL,

HOTELID int NOT NULL,

ROOMNO int NOT NULL,

FOREIGN KEY (HOTELID,ROOMNO) REFERENCES ROOM(HOTELID,ROOM\_NO),

PRIMARY KEY(BID,HOTELID,ROOMNO)

);