DDL QUERIES

Create/Drop Schema

```
1  DROP SCHEMA Tourism_Management_System CASCADE;
2  CREATE SCHEMA Tourism_Management_System;
3  SET search_path TO Tourism_Management_System;
```

Initialize sequence for Aadhar card of User and Guide

```
5   CREATE SEQUENCE aadhar_sequence
6     start 204010567970
7     increment 2;
8
9   ALTER SEQUENCE aadhar_sequence RESTART WITH 204010567970;
10
11  CREATE SEQUENCE g_aadhar_sequence
12    start 304010567972
13    increment 3;
14
15  ALTER SEQUENCE g_aadhar_sequence RESTART WITH 304010567972;
```

User Relation

```
17  --USER------------------------------------------------------
18  CREATE TABLE "User"(
19  UserAadharNo BIGSERIAL PRIMARY KEY,
20  Fname VARCHAR(10) NOT NULL,
21  Lname VARCHAR(10) NOT NULL,
22  Email VARCHAR(20) NOT NULL,
23  Phone Numeric(10) NOT NULL,
24  IsActive BOOLEAN DEFAULT TRUE,
25  Gender CHAR(1) CHECK (GENDER IN('M','F','O')),
26  AGE int
27  );
```

Co-Passenger Relation

```sql
31  --CoPassenger-----------------------------------------------------------------------------
32  CREATE TABLE COPASSENGER(
33  UserAadharNo BIGSERIAL NOT NULL REFERENCES "User"(UserAadharNo) ON DELETE RESTRICT ON UPDATE CASCADE ,
34  CoPassID int NOT NULL,
35  Fname VARCHAR(10) NOT NULL,
36  Lname VARCHAR(10) NOT NULL,
37  Email VARCHAR(20),
38  Phone DECIMAL(12,0),
39  Gender CHAR(1) CHECK (GENDER IN('M','F','O')),
40  AGE int,
41  PRIMARY KEY(UserAadharNo,CoPassID)
42  );
```

Booking Relation

```sql
44  --Booking----------------------------------------------------------------------------------
45  CREATE TABLE BOOKING(
46  BID int GENERATED ALWAYS AS IDENTITY UNIQUE,
47  UserAadharNo BIGSERIAL REFERENCES "User"(UserAadharNo) ON DELETE RESTRICT ON UPDATE CASCADE NOT NULL ,
48  Booking_Date TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
49  TripStart_Date Date NOT NULL,
50  TripEnd_Date Date NOT NULL,
51  Amount float,
52  BookingType CHAR(1) CHECK (BookingType IN('H', 'P')),
53  PRIMARY KEY(BID)
54  );
```

Booking-CoPassenger Relation

```sql
56  --Booking CoPassenger----------------------------------------------------------------------
57  CREATE TABLE BOOKING_COPASSENGER(
58  BID int NOT NULL REFERENCES BOOKING(BID),
59  UserAadharNo BIGSERIAL NOT NULL,
60  CoPassID int NOT NULL,
61  FOREIGN KEY(UserAadharNo,CoPassID) REFERENCES COPASSENGER(UserAadharNo,CoPassID) ON UPDATE CASCADE ON DELETE RESTRICT,
62  PRIMARY KEY(BID,UserAadharNo,CoPassID)
63  );
```

Package Relation

```sql
65  --PACKAGE----------------------------------------------------------------
66  CREATE TABLE PACKAGE(
67  PACKAGEID int PRIMARY KEY GENERATED ALWAYS AS IDENTITY,
68  TITLE VARCHAR(15) NOT NULL,
69  DURATION int,
70  NO_OF_PEOPLE int,
71  IsActive BOOLEAN DEFAULT TRUE,
72  AMOUNT float
73  );
```

Booking Package Relation

```sql
76  --Booking Package------------------------------------------------------------------
77  CREATE TABLE BOOKING_FOR_PACKAGE(
78  BID int PRIMARY KEY REFERENCES BOOKING(BID) ON UPDATE CASCADE ON DELETE RESTRICT,
79  PACKAGEID int NOT NULL REFERENCES PACKAGE(PACKAGEID) ON UPDATE CASCADE ON DELETE RESTRICT
80  );
```

Location Relation

```sql
78  --Location----------------------------------------
79  CREATE TABLE LOCATION(
80  PINCODE Numeric(6) PRIMARY KEY,
81  CITY VARCHAR(30),
82  "state" VARCHAR(30)
83  );
```

Tourist Spot Relation

```sql
89  --Tourist Spot------------------------------------------------------------------
90  CREATE TABLE TOURIST_SPOTS(
91  SPOTID int PRIMARY KEY GENERATED ALWAYS AS IDENTITY,
92  "Name" VARCHAR(20) NOT NULL,
93  SEASON VARCHAR(10),
94  RATINGS FLOAT CHECK (RATINGS>=0 AND RATINGS<=5),
95  ADDRESS VARCHAR(100),
96  PINCODE Numeric(6) REFERENCES LOCATION(PINCODE) ON UPDATE CASCADE ON DELETE RESTRICT
97  );
```

Package-Tourist Spots Relation

```sql
94  --Package Tourist Spots------------------------------------------------
95  CREATE TABLE Package_Includes_Spots(
96  PACKAGEID int NOT NULL REFERENCES PACKAGE(PACKAGEID),
97  SPOTID int NOT NULL REFERENCES TOURIST_SPOTS(SPOTID) ON UPDATE CASCADE ON DELETE
98  CASCADE,
99  PRIMARY KEY(PACKAGEID,SPOTID)
100 );
```

Guide Relation

```sql
106  --GUIDE---------------------------------------------------------------------------
107  CREATE TABLE GUIDE(
108  GuideAadharNo BIGSERIAL PRIMARY KEY,
109  Fname VARCHAR(10) NOT NULL,
110  Lname VARCHAR(10) NOT NULL,
111  Email VARCHAR(20),
112  Phone Numeric(10) NOT NULL,
113  Gender CHAR(1) CHECK (GENDER IN('M','F','O')),
114  AGE int,
115  ADDRESS VARCHAR(100),
116  PINCODE Numeric(6) REFERENCES LOCATION(PINCODE) ON UPDATE CASCADE ON DELETE RESTRICT
117  );
```

Package-Guide Relation

```sql
119  --Package GUIDE-------------------------------------------------------------------
120  CREATE TABLE Package_Includes_Guides(
121  PACKAGEID int NOT NULL REFERENCES PACKAGE(PACKAGEID),
122  GuideAadharNo BIGSERIAL NOT NULL REFERENCES GUIDE(GuideAadharNo) ON DELETE CASCADE ON UPDATE CASCADE,
123  PRIMARY KEY(PACKAGEID,GuideAadharNo)
124  );
125
```

Restaurants Relation

```sql
126  --RESTAURANTS---------------------------------------------------------------------
127  CREATE TABLE RESTAURANT(
128  RID int PRIMARY KEY GENERATED ALWAYS AS IDENTITY,
129  "Name" VARCHAR(50) NOT NULL,
130  PHONE Numeric(10),
131  FOODTYPE VARCHAR(20) CHECK (FOODTYPE IN('VEG','NON-VEG','BOTH')),
132  RATINGS float CHECK (RATINGS>=0 AND RATINGS<=5),
133  ADDRESS VARCHAR(100),
134  PINCODE Numeric(6) REFERENCES LOCATION(PINCODE) ON DELETE RESTRICT ON UPDATE CASCADE
135  );
```

Restaurant-Cuisines Relation

```sql
137  --Restaurant Cuisines-------------------------------------------------------------
138  CREATE TABLE RESTAURANT_CUISINES(
139  RID int NOT NULL REFERENCES RESTAURANT(RID) ON DELETE CASCADE ON UPDATE CASCADE,
140  CUISINES VARCHAR(20) NOT NULL,
141  PRIMARY KEY(RID,CUISINES)
142  );
```

Hotels Relation

```sql
144  --Hotels----------------------------------------------------------------------------
145  CREATE TABLE HOTEL(
146  HOTELID int PRIMARY KEY GENERATED ALWAYS AS IDENTITY,
147  "Name" VARCHAR(50) NOT NULL,
148  PHONE Numeric(10),
149  FOODTYPE VARCHAR(20) CHECK (FOODTYPE IN('VEG','NON-VEG','BOTH')),
150  RATINGS float CHECK (RATINGS>=0 AND RATINGS<=5),
151  ADDRESS VARCHAR(100),
152  IsActive BOOLEAN DEFAULT TRUE,
153  PINCODE Numeric(6) REFERENCES LOCATION(PINCODE) ON DELETE RESTRICT ON UPDATE CASCADE
154  );
```

Hotel-Services Relation

```sql
156  --Hotel_Services-------------------------------------------------------------------
157  CREATE TABLE HOTEL_SERVICES(
158  HOTELID int NOT NULL REFERENCES HOTEL(HOTELID) ON DELETE CASCADE ON UPDATE CASCADE,
159  SERVICES VARCHAR(50) NOT NULL,
160  PRIMARY KEY(HOTELID,SERVICES)
161  );
```

Rooms Relation

```sql
163  --ROOMS-----------------------------------------------------------------------------
164  CREATE TABLE ROOM(
165  HOTELID int NOT NULL REFERENCES HOTEL(HOTELID) ON DELETE RESTRICT ON UPDATE CASCADE,
166  ROOM_NO DECIMAL(3,0) NOT NULL,
167  PRIMARY KEY(HOTELID,ROOM_NO),
168  "Type" VARCHAR(6) CHECK( "Type" IN('AC','NON-AC','HEATER')),
169  BEDS int CHECK(BEDS>0),
170  CAPACITY int CHECK(CAPACITY>0),
171  RATE FLOAT,
172  STATUS VARCHAR(15) CHECK (STATUS IN('AVAILABLE','NOT-AVAILABLE','BOOKED'))
173  );
```

Room-Facilities Relation

```sql
175  --ROOM FACILITIES------------------------------------------------------------------
176  CREATE TABLE ROOM_FACILITIES(
177  HOTELID int NOT NULL,
178  ROOM_NO int NOT NULL,
179  FACILITY VARCHAR(50) NOT NULL,
180  FOREIGN KEY (HOTELID,ROOM_NO) REFERENCES ROOM(HOTELID,ROOM_NO) ON DELETE CASCADE ON UPDATE CASCADE,
181  PRIMARY KEY(HOTELID,ROOM_NO,FACILITY)
182  );
183
```

Package-Hotel Relation

```
184  --Package_Hotel------------------------------------------------------------------------
185  CREATE TABLE Package_Includes_Hotels(
186  PACKAGEID int NOT NULL REFERENCES PACKAGE(PACKAGEID) ON DELETE RESTRICT ON UPDATE CASCADE,
187  HOTELID int NOT NULL,
188  ROOM_NO int NOT NULL,
189  FOREIGN KEY (HOTELID,ROOM_NO) REFERENCES ROOM(HOTELID,ROOM_NO) ON DELETE CASCADE ON UPDATE CASCADE,
190  PRIMARY KEY(PACKAGEID,HOTELID,ROOM_NO)
191  );
```

Booking-Hotel Relation

```
193  --Booking Hotel------------------------------------------------------------------------
194  CREATE TABLE Booking_For_Hotel(
195  BID int REFERENCES BOOKING(BID) NOT NULL,
196  HOTELID int NOT NULL,
197  ROOM_NO int NOT NULL,
198  FOREIGN KEY (HOTELID,ROOM_NO) REFERENCES ROOM(HOTELID,ROOM_NO) ON DELETE RESTRICT ON UPDATE CASCADE,
199  PRIMARY KEY(BID,HOTELID,ROOM_NO)
200  );
```