

CP 363 Assignment 3 – Schema Design

Tourism Agency Booking System DBMS

Group 37

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Hibah Hibah

Donil Patel

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1 DROP DATABASE IF EXISTS TourismAgencyDBMS;
2 CREATE DATABASE TourismAgencyDBMS;
3 USE TourismAgencyDBMS;
4
5 CREATE TABLE Customer (
6     customer_id INT PRIMARY KEY NOT NULL UNIQUE,
7     first_name VARCHAR(50) NOT NULL,
8     last_name VARCHAR(50) NOT NULL,
9     email VARCHAR(100) NOT NULL UNIQUE,
10    phone VARCHAR(15) NOT NULL UNIQUE,
11    address VARCHAR(200),
12    preferred_destinations TEXT
13 );
14
15 CREATE TABLE Tour_Package (
16     package_id INT PRIMARY KEY NOT NULL UNIQUE,
17     package_name VARCHAR(100) NOT NULL,
18     destination VARCHAR(100) NOT NULL,
19     price_per_person DECIMAL(10,2) NOT NULL,
20     start_date DATE NOT NULL,
21     end_date DATE NOT NULL
22 );
23
24 CREATE TABLE Booking (
25     booking_id INT PRIMARY KEY NOT NULL UNIQUE,
26     booking_date DATE NOT NULL,
27     customer_id INT NOT NULL,
28     package_id INT NOT NULL,
29     number_of_people INT NOT NULL CHECK (number_of_people > 0),
30     total_cost DECIMAL(10,2) NOT NULL,

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31     FOREIGN KEY (customer_id) REFERENCES Customer(customer_id),
32     FOREIGN KEY (package_id) REFERENCES Tour_Package(package_id)
33 );
34
35 CREATE TABLE Payment (
36     payment_id INT PRIMARY KEY NOT NULL UNIQUE,
37     booking_id INT NOT NULL,
38     payment_date DATE NOT NULL,
39     payment_amount DECIMAL(10,2) NOT NULL CHECK (payment_amount > 0),
40     payment_mode VARCHAR(20) CHECK (payment_mode IN ('Cash', 'Credit Card', 'Online')),
41     FOREIGN KEY (booking_id) REFERENCES Booking(booking_id)
42 );
43
44 CREATE TABLE Guide (
45     guide_id INT PRIMARY KEY NOT NULL UNIQUE,
46     guide_name VARCHAR(50) NOT NULL,
47     contact_number VARCHAR(15) NOT NULL UNIQUE,
48     language VARCHAR(50) NOT NULL,
49     availability_status VARCHAR(20) CHECK (availability_status IN ('Available', 'Assigned'))
50 );
51
52 CREATE TABLE Tour_Schedule (
53     schedule_id INT PRIMARY KEY NOT NULL UNIQUE,
54     package_id INT NOT NULL,
55     guide_id INT NOT NULL,
56     schedule_date DATE NOT NULL,
57     FOREIGN KEY (package_id) REFERENCES Tour_Package(package_id),
58     FOREIGN KEY (guide_id) REFERENCES Guide(guide_id)
59 );
60

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Action Output				
	Time	Action	Response	Duration / Fetch Time
✓ 1	15:45:28	DROP DATABASE IF EXISTS TourismAgencyDBMS	10 row(s) affected	0.034 sec
✓ 2	15:45:28	CREATE DATABASE TourismAgencyDBMS	1 row(s) affected	0.00043 sec
✓ 3	15:45:28	USE TourismAgencyDBMS	0 row(s) affected	0.00020 sec
✓ 4	15:45:28	CREATE TABLE Customer (customer_id INT PRIMARY KEY NOT NULL UNIQUE, first_na...	0 row(s) affected	0.0037 sec
✓ 5	15:45:28	CREATE TABLE Tour_Package (package_id INT PRIMARY KEY NOT NULL UNIQUE, pac...	0 row(s) affected	0.0036 sec
✓ 6	15:45:28	CREATE TABLE Booking (booking_id INT PRIMARY KEY NOT NULL UNIQUE, booking_d...	0 row(s) affected	0.0069 sec
✓ 7	15:45:28	CREATE TABLE Payment (payment_id INT PRIMARY KEY NOT NULL UNIQUE, booking_...	0 row(s) affected	0.0043 sec
✓ 8	15:45:28	CREATE TABLE Guide (guide_id INT PRIMARY KEY NOT NULL UNIQUE, guide_name VA...	0 row(s) affected	0.0029 sec
✓ 9	15:45:28	CREATE TABLE Tour_Schedule (schedule_id INT PRIMARY KEY NOT NULL UNIQUE, pa...	0 row(s) affected	0.0059 sec
✓ 10	15:45:28	CREATE TABLE Hotel (hotel_id INT PRIMARY KEY NOT NULL UNIQUE, hotel_name VAR...	0 row(s) affected	0.0042 sec
✓ 11	15:45:28	CREATE TABLE Package_Hotel (package_id INT NOT NULL, hotel_id INT NOT NULL,...	0 row(s) affected	0.0045 sec
✓ 12	15:45:28	CREATE TABLE Transportation (transport_id INT PRIMARY KEY NOT NULL UNIQUE, tra...	0 row(s) affected	0.0038 sec
✓ 13	15:45:28	CREATE TABLE Package_Transport (package_id INT NOT NULL, transport_id INT NOT...	0 row(s) affected	0.0039 sec
✓ 14	15:46:07	SHOW TABLES	10 row(s) returned	0.0020 sec / 0.00000...

SCHEMAS	
Q	Filter objects
>	ap
>	ex
>	om
>	sys
✓	TourismAgencyDB
✓	Tables
>	Booking
>	Customer
>	Guide
>	Hotel
>	Package_Hotel
>	Package_Transport
>	Payment
>	Preferred_Destinat...
>	Tour_Package
>	Tour_Schedule
>	Transportation
	Views
	Stored Procedures
	Functions