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Database Design for

TOUR MANAGEMENT SYSTEM

TOUR MANAGEMENT SYSTEM

A **Tour Management System (TMS)** is a software application designed to streamline the process of planning, booking, and managing tour packages for travellers, while also enabling efficient operations for tour agencies and administrators. The primary goals of the TMS include smooth tour booking experiences, user-friendly access to information, real-time package availability, and automated transaction handling.

The **Tour Management System** serves as a centralized platform where customers can explore destinations, book customized tour packages, and receive instant booking confirmations. Meanwhile, administrators can manage customer data, tour offerings, bookings, and payment records. The system ensures a seamless end-to-end workflow from selecting a package to finalizing payment, managing cancellations, and generating receipts.

Entities:

- **Customers**

- **Tour packages**

- **Bookings**

- **Payments**

Entity-Relationships:

- A **customer** can make multiple bookings, but each **booking** is associated with only one customer. (One-to-Many).

- A one **tour package** can be **booked** by many customers (One-to-Many).

- A **booking** generates a **payment transaction**, linking a booking to a payment (Oneto-One).

Attributes:

1. Customers

- customer_id (Primary Key)

- Name

- Email

- phone

- Address

2. Tour packages

- package_id (Primary Key)

- destination

- cost

- duration

- description

3. Bookings

- booking_id (Primary Key)

- customer_id (Foreign Key)

- package_id (Foreign Key)

- booking_date

4. Payments

- payment_id (Primary Key)

- booking_id (Foreign Key)

- amount

- payment_date

- payment_status

ENTITY RELATIONSHIP DIAGRAM – TOUR MANAGEMENT SYSTEM

ER Diagram -- Tour Management System

tour_packages
package_id int
destination varchar
cost decimal
duration int
description text

bookings
booking_id int
customer_id int
package_id int
booking_date date
status varchar

Customers
customer_id int
name varchar
email varchar
phone bigint
Address text

payemnts
payment_id int
booking_id int
amount decimal
payment_date date
payment_status varchar

Customers

- customer_id
- Name
- Email
- Phone
- Address

Bookings

- booking_id
- customer_id
- package_id
- booking_date

tour_packages

- package_id
- destination
- cost
- duration
- description

Payments

- package_id
- booking_id
- amount
- payment_date
- payment_status