



Tourism Management System

Group Number: 7

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Project Scope, Description and Queries Requirements

Scope of Database:

- A Trip/Tourism management website needs to manage all its users, hotels and restaurants, tour guides and tour packages efficiently. Our task is to create a database where all the data regarding users, guides, hotels, tour packages can be stored and retrieved.
- The website only allows user to book packages and hotels. The mode of transport such as Flights/Trains won't be included.
- Following are the database description/requirements:

Description/Requirements:

- 1) **Users** will have Aadhar card number, name (fname, lname), age, gender, phone, email.
- 2) Each **user** may have zero or more co-passenger associated with him.
- 3) Each **co-passenger** will have name, age, gender, phone and email, and can be associated with exactly one user.
- 4) Each **tourist spot** will have attributes like spot_Id, name, address, ratings and most suitable season to visit that place.
- 5) Each **hotel** will have hotel_Id, name, address, contact number, services that it provides (like Pool, Gym, etc.), number of available rooms, food availability and ratings.
- 6) Each **room** will have attributes like room number, number of beds, number of people it can accommodate, room-type (AC/ Non AC etc.), other amenities' details (like sea-facing view), status of room (available or not), and its rate.
- 7) **Guides** will have name, gender, age, email, phone number, address and Aadhar card number.
- 8) Each **Location** will include attributes like pin-code, city and state.
- 9) Each **restaurant** will have restaurant_Id, name, address, contact number, food-type (Veg/Non-Veg), available cuisines and ratings.

- 10) Each **location** may have zero or more **restaurants** but one **restaurant** will be situated at only one **location**.
- 11) Each **hotel** will have exactly one **location** and each location can have more than one **hotel**.
- 12) Each **package** will include hotel rooms, tour guides, different visiting spots, duration and rate of the full trip and can be uniquely identified using a `package_Id`.
- 13) Each **package** can have one or more **hotel rooms** included in it and one **hotel room** can be included in one or more than one **packages**.
- 14) Each **tour guide** can be associated with one or more than one **package** but one **package** may have zero or more **tour guides** associated with it.
- 15) Each **tour guide** will be available at a single location i.e. they can only show around the tourist spots to the user in that location. Each **location** may have more than one **tour guides**.
- 16) Each **package** may consist of more than one **tourist spot**.
- 17) Also, one **tourist spot** may be included in more than one **package**.
- 18) **Users** will have the option to either book a **package** offered by the site or to book a **hotel room** individually.
- 19) Each **booking** will have attributes like booking dates, package or hotel rooms selected, user and co-passenger details and payable amount and can be uniquely identified using a `booking_Id`.
- 20) Each **booking** is associated with only one **user** and one **user** may have more than one **booking**.
- 21) Also, each **booking** will be associated with either only one **package** or **hotel room**.
- 22) One **package** may have zero or more **bookings**. Similarly one **hotel room** may also have zero or more **bookings**.

Queries that database system should be able to answer:

- 1) Retrieve the packages within a particular price range.
- 2) Show the list of top 3 packages based on the number of users who booked it.
- 3) Retrieve list of all the active packages with full details.
- 4) View list of all the tourist spots at a particular location.
- 5) View the tourist spots included in a specific package.
- 6) Retrieve the tourist spot with highest user ratings.
- 7) View all the restaurants that serve “only veg” food at a particular location.
- 8) View all the restaurants that have “Chinese” cuisine included in their menu.
- 9) Retrieve all the hotels that are situated at location “Ahmedabad”.
- 10) Retrieve list of hotels that are providing “Gym” services.
- 11) Retrieve the hotel with highest user ratings.
- 12) Retrieve list of hotels sorted according to their user ratings.
- 13) View list of hotel rooms starting from the Lowest Price to Highest Price.
- 14) Retrieve list of hotel rooms that provide “Cable TV” facility at a particular location (city).
- 15) Retrieve all the packages associated with a particular guide. **(admin)**
- 16) Retrieve all the packages associated with a particular hotel.
- 17) Retrieve all the packages which include “xyz” spots.
- 18) Best place to visit place in “Winter” season.
- 19) Name and address of hotels between limited price range.
- 20) Retrieve list of all the guides which are not associated with any active packages.
- 21) List all the hotels that have room availability from "this date" to "last date" at a particular location.
- 22) Number of rooms available at a particular hotel right now.
- 23) Retrieve all the previous bookings of user. **(both)**
- 24) Retrieve the bookings between particular date of “xyz” user. **(admin)**
- 25) Retrieve all the bookings between particular date. **(admin)**
- 26) Retrieve all the details of user of “xyz” hotel room. **(admin)**
- 27) Retrieve all the user booking details of “xyz” hotel. **(admin)**
- 28) Give details of co-passenger with “xyz” user with dates. **(admin)**