Database Design of Tour Operator

Rekoleto Tour Operator

A Course Requirement in Information Management II

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The system needs to keep track of people. For each person, it records all his/her address, of which exactly one is designated as the mailing address (so each person has at least one address). Each address consists of country, province/state, city, street, street number, P.O. Box number, and a list (possible empty) of phone numbers to the location of the address and a list (possible empty) of fax numbers to the location of the address. In addition to the list of adder`sses for each person it records a list (possible empty) of cell phone numbers and a list (possible empty) of email address. Each person in the database can be an old customer (have taken a tour of the company), a current customer (is booked to take a tour or is on a tour right now), a tour guide, an employee (works for the tour company), or any mixture of these (for instance an employee can take a tour and so can be a customer as well, or an employee can work as a tour guide for a particular tour and hence be an employee and a guide at the same time, etc.). The gender and age of each person must also be recorded, a date-of-birth is optional for an external worker, a contract reference for each of the tours the guide is doing must be included. A guide contract references the tour and the total amount the tour guide will be paid for the tour. The guides do not pay for the accommodation and the meals.

The system also keeps track of all tours, past and future. Each tour has a unique designation, itinerary, guide (at least one, but may be more than one), its status (completed, in-progress, in-the-future), and the list of participants (not including the guides). The itinerary consists of list of the dates the tour covers and for each date it includes the place of breakfast, the place of lunch, the place of dinner, and the place of accommodation. For each of the places there is a contract reference. Each day in the itinerary also includes and a simple English description of the activities during that day.

An accommodation can be a hotel, or a rented room or rooms from a rental company, or a rented room or rooms from a private person. A meal (breakfast, lunch, dinner) can be in hotel, restaurant, or a private place. The contract for accommodation or meal must bear the date of the contract becomes valid, the date or dates it covers, what the contract is for (accommodation, breakfast, lunch, dinner) if the pricing is per person or per group or per room or per the whole facility, per night or per a certain period and the corresponding price. It also may stipulate the minimum and the maximum of people for the accommodation/meal for each day it covers, financial penalty if less than minimum uses the accommodation. All prices are assumed to be in Canadian dollars, no conversion is involved, regardless where the place is. Each place is identified by a single address. Each provider of accom modation or meal has a unique designation.