

PROJECT DESCRIPTION

Instructions: Each student will need to complete all parts of the project individually. The project consists of different parts, which will be given out at different times.

FANDANGOOSE: AN ONLINE CONCERT TICKET SYSTEM FOR SAN FRANCISCO

Concerto is a company in San Francisco responsible for the planning and organization of concert events in San Francisco. You have been hired by Concerto to develop FANDANGOOSE, an online ticketing system that will allow their customers to book concert tickets online.

FANDANGOOSE will allow their customers to view available concerts, book concert tickets, modify their personal data (e.g., billing or shipping information) online. It will also allow Concerto to update the database with new and upcoming concerts.

The complete description of the database to be used in the FANDANGOOSE system is given below.

Requirements:

The following information, as outlined by Concerto, needs to be stored in the database.

The details of each concert which include its number, name, date on which to be held, timing, stadium (where it's to be held), rating and the performing artist.

Some details of the performing artist need to be available which include name, qualifications, interests, some successful concerts.

The particulars of the stadium need to be stored which include stadium-number, name, address, phone, regular-seating-capacity, premium-seating-capacity and their respective rates (dollar amounts).

The customers of FANDANGOOSE are given the facility to view the details of the concerts, and book tickets for the same. For this process, it is required to store the details of each customer that include the username, password (for verification process), full name, shipping address, billing address and the details of the credit card.

As stated above, the webmaster of Concerto should be able to update or add new concerts and delete old concerts. For this purpose a special username and password should be reserved for the webmaster to be able to login.

We need to be able to make bookings for the upcoming concerts. For this purpose it is required to store the bookings made by the customers for particular concerts. This will store the ticket number, the type of ticket (regular / premium) and the person who made

the booking. A different ticket number is given for each ticket booked. If a person books more than one ticket, then his/her name is specified in all the tickets he/she booked.

Finally, for the credit card verification process, we need to have access to the details of the credit cards (MasterCard & Visa only) which include, credit card-number, credit-card-type, expiration month, expiration year, billing address, and the name of the person holding the card. Please note here that we are only keeping credit card information of the customers of FANDANGOOSE.

Project Part I:

Due on: 23rd Jan 2003 (in class). Late homeworks will not be accepted.

I. Design an E-R diagram for the database described. (See the Project description link on the class web page). If you think there is other information that needs to be modeled in the E-R diagram, please add and state your reasons concisely.

Note:

Underline the key attributes of entity sets.

Include arrowheads indicating the multiplicity of relationship sets.

If there are weak entity sets, notate them properly.

II. Translate your E-R diagram to a relational database schema.

Note:

You only have to specify your relational database schema at this time.

Do not forget to underline the key attributes in the relations.

How to submit:

The assignment must be submitted on paper at the beginning of the class on the specified due date.

Please make sure that both the parts of the assignment must be written on separate sheets of paper for the sake of consistency and ease for grading.
