DB Modelling excercises

Claudia Vasallo

1 Excercise 1: Vueling

Models lists all plane models identified by a model id and stores its name, features and capacity. Planes lists all planes the company owns identified by a plane id and relates to its model. Seats identifies the seats of every plane by their seat number and plane id and stores their features.

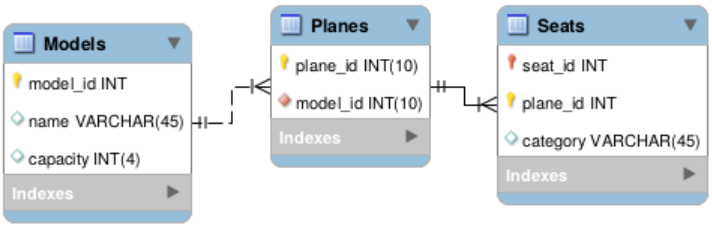

Figure 1: Model for Vueling database

2 Excercise 2: Paintings

Paintings defines the paintings by a painting id, relates their author and stores their price, wheter or not it has been sold (Status) and in case it has been sold, the buye id. Buyers defines the buyers with a buyer id and stores their names and DNI.

3 Excercise 3: Stube

User defines the users with their user id and stores their usernames and passwords. Videos stores the videos identified by its video id and the user id of the publisher and stores its title, description and url.

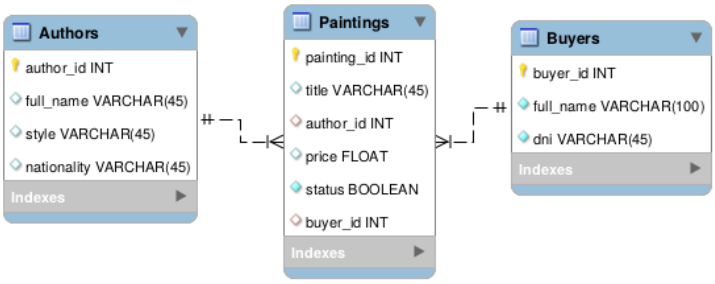

Figure 2: Model for the Paintings Store database

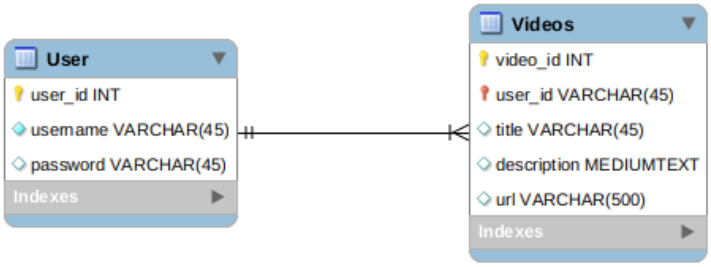

Figure 3: Model for the Stube database

4 Excercise 5: Amazon Books

Books identifies each book by its book id and stores its title, author id, available stock and price. Authors identifies an author by the authors by their author id and stores their full names and addresses. Users identifies the users with a user id and stores their usernames, emails and passwords. Invoices identifies a invoice by its invoice id and relates the user that produced the invoice. Purchases is a joining table that relates the invoices to the purchased items and quantities to be included in the invoice.

5 Excercise 5: Social Network

Users identifies each user by its user id and stores its username, email and password. Photos identifies each photo published by a photo id and its author's user id and stores its address and url where it is located. Friendship is a joining table that relates two users that have become friends and stores their "How we met" story.

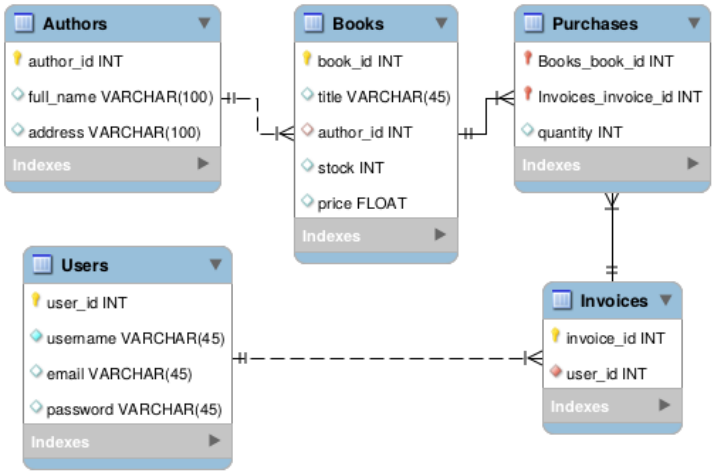

Figure 4: Model for the Amazon Books database

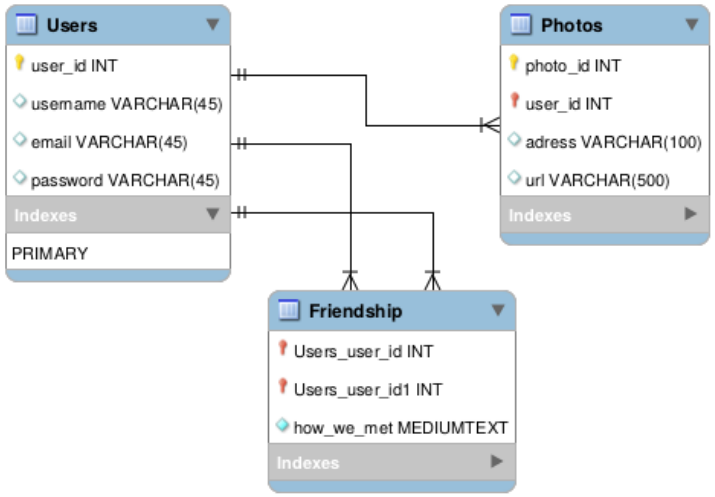

Figure 5: Model for the Social Network database