DB Modelling excercises

Claudia Vasallo

February 21, 2019

1 Excercise 1: Vueling

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

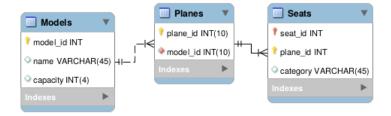


Figure 1: Model for Vueling database

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

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

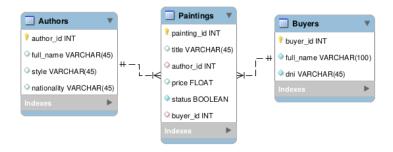


Figure 2: Model for the Paintings Store database

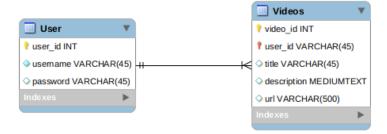


Figure 3: Model for the Stube database

4 Excercise 5: Amazon Books

<u>Books</u> identifies each book by its book id and stores its title, author id, available stock and price. <u>Authors</u> identifies an author by the authors by their author id and stores their full names and addresses. <u>Users</u> identifies the users with a user id and stores their usernames, emails and passwords. <u>Invoices</u> identifies a invoice by its invoice id and relates the user that produced the invoice. <u>Purchases</u> 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

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

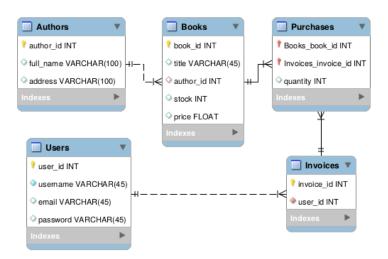


Figure 4: Model for the Stube database

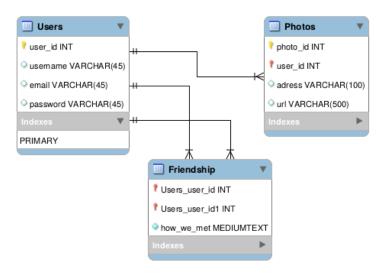


Figure 5: Model for the Social Network database