Dognition Relational Schema Practice Exercise

Sometimes you are given ER diagrams and relational schemas for the database you need to analyze, and other times you are given neither, as was the case with the donated Dognition database.

Here are the names of each table in the Dognition database, with a list of all columns in each database table. We will learn more about how to uncover the relationships between the data in the database tables and columns in the MySQL exercises we complete next week. To prepare, I recommend that you use ERDPlus to make a draft of what you think is likely to be the relational schema of the database. Which columns do you think likely contain unique identifying information in each table? Which columns do you think you can you use to link tables to each another?

For the data types listed below:

"int"   entries are integers within the range of -2,147,483,648 to 2,147,483,648.

"tinyint"   entries are integers within the range of -128 to 127.

"varchar"   entries are text strings of variable length whose maximum number of characters is the number in parentheses.

"datetime"   entries will have both date and time parts.

"text"   entries are text strings of variable length whose maximum number of characters is 65,535 characters.

Users table:

Field	Data Type
sign_in_count	int(11)
created_at	datetime
updated_at	datetime
max_dogs	int(11)
membership_id	int(11)
subscribed	tinyint(1)
exclude	tinyint(1)
free_start_user	tinyint(1)
last_active_at	datetime
membership_type	int(11)
user_guid	text
city	varchar(255)
state	varchar(255)
zip	varchar(255)
country	varchar(255)
utc_correction	varchar(255)

Reviews table:

Field	Data Type
rating	int(11)
created_at	datetime
updated_at	datetime
user_guid	varchar(60)
dog_guid	varchar(60)
subcategory_name	varchar(60)
test_name	varchar(60)

Complete_tests table:

Field	Data Type
created_at	datetime
updated_at	datetime
user_guid	varchar(60)
dog_guid	varchar(60)
test_name	varchar(60)
subcategory_name	varchar(60)

Exam_answers table:

Field	Data Type
script_detail_id	int(11)
subcategory_name	varchar(255)
test_name	varchar(255)
step_type	varchar(255)
start_time	datetime
end_time	datetime
loop_number	int(11)
dog_guid	varchar(60)

Site_activities table:

Field	Data Type
activity_type	varchar(150)
description	text
membership_id	int(11)
category_id	int(11)
script_id	int(11)
created_at	datetime
updated_at	datetime
user_guid	varchar(255)
script_detail_id	int(11)
test_name	varchar(255)
dog_guid	varchar(255)

Dogs table:

Field	Data Type
gender	varchar(255)
birthday	varchar(255)
breed	varchar(255)
weight	int(11)
dog_fixed	tinyint(1)
dna_tested	tinyint(1)
created_at	datetime
updated_at	datetime
dimension	varchar(255)
exclude	tinyint(1)
breed_type	varchar(255)
breed_group	varchar(255)
dog_guid	varchar(60)
user_guid	varchar(60)
total_tests_completed	varchar(255)
mean_iti_days	varchar(255)
mean_iti_minutes	varchar(255)
median_iti_days	varchar(255)
median_iti_minutes	varchar(255)
time_diff_between_first_and_last_game_days	varchar(255)
time_diff_between_first_and_last_game_minutes	varchar(255)