Project Chicken Management

You should develop a program for the members of a chicken breeding association.

# FYI:

X chickens of different strains are kept in a coop. Roosters are kept in separate houses, unless one is supposed to produce offspring. He is placed in a separate coop together with the hens to be accompanied.

**A chicken** (considered neutral) has a name, a hatching date, belongs to a breed, has other characteristics, sex, such as trunk (1-5), feather color, comb color, weight and compatibility (good, aggressive).

**A hen** also has an egg color, the average egg weight.

**A rooster** is characterized by a good fertilization rate (fertilized eggs / total number of eggs).

It should be possible to record the laying performance of each hen. This happens periodically. The hens are given a color marking (food coloring) that can be seen on the eggs.

For this purpose, the number of eggs laid (0-2) of the chicken with the date, weight and the coop (coop number) is registered on each day of the recording period, period, so that a statement can be made about laying performance by querying the registration data. For the census data, you create a database table that you relate to the existing chicken table. (One hen -> n-counts) At the end of the count, determine the number of eggs counted per hen and divide them by the number of counting days. The result is stored in the hen's record (field: laying performance).

To do this, use the following update statement:

-- (Eier je Henne) / (Anzahl der Tage)

select <feld mit ID>, cast(COUNT(<feld anzahl>) as float) / (select COUNT (distinct <datumsfeld>) from <zähltabelle>) as anzahl

into anzahlen --Ergebnis in Tabelle Zwischenspeichern

from <zähltabelle>

group by <feld\_mit\_ID>;

update <hühnertabelle> --˅˅˅Zwischentabelle abfragen˅˅˅

set <feld legeleistung> = (select anzahl from anzahlen

where <feld mit ID> = <Hühner ID>);

drop table anzahlen; --Zwischentabelle löschen

The selection for further breeding is made according to various criteria. (Not part of the task)

E.g. hens that lay many or large eggs, or have a lot of meat, or are very compatible with other chickens.

Roosters with a good marking, with a good color or comb color, or comb shape (decision is arbitrary), or good, tolerance and fertilization rate of the eggs. The fertilization rate is determined by sheer (x-ray) and registered to the rooster.

For sorting (slaughter), criteria such as aggressive, poor egg-laying, age, mating laziness and poor fertilization rate are used. (Not part of the task)

# Task

You create an attractive interface for chicken management, laying performance, (e)feeding, (e)breeding, (e)diseases, (e)medication, (e)care (menu or tab widget or toolbar.

An image that contains text, screenshot.

Auto-generated descriptionThe extension(s) should be visible in the toolbar, but not usable and will not be implemented by you.

When the program starts, a start window with a picture of a chicken, rooster, or both on it (via a resource file), your program name and your name, should overlay the program window, which closes by itself after 3 seconds. (Similar to example next to it)

Without exception, the animal data is managed via a SQL Server database that you create yourself. Other data, such as program information, can be stored in a file or in the registry. However, it is also possible to store them in the database. If you have problems with queries or other database questions, the trainer is at your disposal.

You'll also create an interface to be able to enter, output, and delete the data.

In order to provide foreign-language members with access to the software, an English-language version will also be made available.

~~The following printouts must be possible:~~

~~A tabular overview with all chickens/roosters, their sex, weight and laying performance, or in the case of roosters the fertilization rate.~~

You are allowed to use any means to obtain information except to exchange information with your fellow students.

I am also happy to help with troubleshooting.

Good luck.