

Week 7 Exercises

Part 1. Unix and SCP

Login to the server. Use “nano” to create a file “ewoks.sql” that would contain two SQL statements: “use starwars” and a select query that selects all ewoks from the persona table. Save the file with “Ctrl-X”. Run the query by “redirecting” the content of the file to mysql:

```
mysql < ewoks.sql
```

Once you manage to do this successfully, modify the command to save the output into a file:

```
mysql < ewoks.sql > ewoks.txt
```

Use SCP (either the command line “scp” client or a GUI client such as WinSCP) to move ewoks.txt to your own computer.

Part 2. Web

Edit “index.html” file in ~/public_html/ to add some formatting and a link.

The end result should look something like this: <http://yoda.ischool.utoronto.ca/~okenobi/>

Part 3. Loading Data

Download a spreadsheet showing population of different countries from <http://www.census.gov/compendia/statab/2012/tables/12s1332.xls>

Delete all rows and columns except for the names of countries (from “Afghanistan” to “Zimbabwe”) and the population in 2010. Save the resulting table as a tab-delimited CSV file. Copy it to the server. Create a database with one column for country name and another one for the population. Load the data into the database. Write a query that finds the 5 most populated countries. (It should be China, India, United States, Indonesia, and Brazil.)

Part 3. Normalization

A. Normalize the following table that a dentist is using to keep track of her work on her patients teeth:

(first_name, last_name, insurance_info, visit_date, which_tooth, symptoms, diagnosis, treatment_notes, material_used, fee, amount_owed)

B. Normalize the following table that contains information about people who registered for events at a community center:

(title, first_name, last_name, email, home_telephone, work_telephone, event_name, event_date, cost)