Cover page

CPSC 304 Project Cover Page

Milestone #: 3

Date: 11/03/21

Group Number: 22

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By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above. (In the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.)
In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia

Task Breakdown

1. Finish Tutorial 7
    a. Assignee: All of us
    b. Deadline: 11/05/21
    c. It would be beneficial for all of us to explore the PHP and SQL resources https://www.students.cs.ubc.ca/~cs-304/resources.html
2. Polish single SQL script - fix and complete data
    a. Assignee: Duy and Jessica
    b. Deadline: 11/10/21
    c. Need to fix our insert tuple data to be semantically correct (e.g. right now we have some animals that are bears but their breeds are birds).
    d. Need to complete our insert tuple data (e.g. only Animal 1 and Animal 2 have feeding schedules, let's add some more). We don't need to add **all** possible data, but enough to involve most of our entities (e..g vets, trainers, animals) in our relationships.
    e. Be sure the foreign keys make sense (e.g. foreign key of animal in events is referring to the correct animal that's performing in the event)
    f. Make sure the SQL DDL still works afterwards
3. PDF file for M4
    a. Assignee: Duy and Jessica
    b. Deadline: 11/23/21
    c. A short description of the final project, and what it accomplished.
    d. A description of how your final schema differed from the schema you turned in. If the final schema differed, explain why. Note that turning in a final schema that's different from what you planned is fine, we just want to know what changed and why.
    e. Double check we have all the following (see section below on Queries for how we are splitting the work up):
        i. A list of all SQL queries used. For SQL query requirements, check the rubric listed on Canvas for Milestone 4.
        ii. Screenshots of the sample output of the queries using the GUI (for example, you can show what data is in your table before you run the query, and then show another screenshot after running the query, from some kind of GUI input like a button).
        iii. You need only to include screenshots for the specified queries – if you implemented more than what was required, screenshots are not needed for those extra queries.
    f. Add a README.txt file if there's anything we want to add that's not included in our PDF file.
4. M4 Miscellaneous items
    a. Assignee: Eric
    b. Deadline: 11/20/21
    c. Need to double check and provide a cover page, repository link, proofread PDF file, review the SQL script polished data
5. Double check each other's work
    a. Assignee: All of us
    b. Deadline: 11/25/21
    c. Each member needs to:
        i. Check other person's query
        ii. Test it thoroughly and make sure it runs as expected
        iii. Do a final run through at the end to see if we have covered all deliverables required for M4

6. Brainstorm remaining queries
    a. Assignee: All of us
    b. Deadline: 11/15/21
    c. In M3, we only stated queries for insert, select, update, delete, etc. We should discuss as a group what queries we want for the ones we did not state in M3 such as division, all the aggregations, etc.
7. Queries + GUI + making the calls to the database
    a. Each member has 3-4 queries assigned to themselves. For each query, each member **must** complete the following:
        i. Creating the necessary HTML section in our .php file
        ii. Implement and connect the query with PHP and to the Oracle database
        iii. Ensuring there is sufficient data to express their query well enough. If not, add in the necessary insert statements.
        iv. Make sure it **satisfies** the criteria outlined for each query in M5
        v. Modify the PDF
            1. Taking a screenshot of the sample output of the queries using the GUI
            2. Listing in the PDF all the queries we used.
        vi. Checkout to a new branch and create a pull request and only merge once you have at least one approval.
            1. Ensure the PR lists the criteria for the query specified in M5
            2. Make sure the person reviewing the pull request tests your work and checks it meets the criteria for the respective query in M5.
    b. Queries Insert
        i. Assignee: Eric
        ii. Deadline: 11/20/21
    c. Queries Delete
        i. Assignee: Jessica
        ii. Deadline: 11/13/21
    d. Queries Update
        i. Assignee: Duy
        ii. Deadline: 11/13/21
    e. Queries Selection
        i. Assignee: Jessica
        ii. Deadline: 11/20/21
    f. Queries Projection
        i. Assignee: Duy
        ii. Deadline: 11/20/21
    g. Queries Join
        i. Assignee: Eric
        ii. Deadline: 11/20/21
    h. Queries Aggregation W Group By
        i. Assignee: Jessica
        ii. Deadline: 11/23/21
    i. Queries Aggregation W Having
        i. Assignee: Duy
        ii. Deadline: 11/23/21
    j. Queries Nested Aggregation With Group By
        i. Assignee: Eric
        ii. Deadline: 11/20/21

    k. Queries Division
        i. Assignee: Eric
        ii. Deadline: 11/20/21
8. Prepare for Demo
    a. Assignee: All of us
    b. Deadline: 11/27/21
    c. Plan out how we want to demo our finished project to our TA
    d. Prepare beforehand copy of schema and sample table to TA can verify queries are producing right output and what to expect from any UPDATE or DELETE operations
    e. Plan out how we will show the before and after state
    f. Practice as a group our demo.

Description of challenges/things left to do

a. Setting up/working with GitHub
    i. It's been working so far, but if any issues arise there is a ton of online documentation about GitHub.
    ii. Another thing is handling merge conflicts and working on stale branches, these will be essential skills to practice and become familiar with.
b. Coming up with meaningful data
    i. None of us have experience working in a zoo so might take more effort to find/create tuples that make sense with the zoo idea
c. Creating a cohesive looking GUI between the 3 of us
    i. Don't want it to become just one person doing all the HTML and CSS, at the same time I'd imagine we want our added functionality to the php file to have similar headings, line breaks etc.
    ii. To avoid this, we've created a plan where each person is in charge of a couple of queries which encompasses adding the respective HTML and CSS section in the PHP page.
d. Getting familiar with PHP
    i. Right now, all of us have finished tutorial 7 and are getting started with the PHP code for our application. We will be looking into PHP documentation and how to better debug PHP applications.