ITE 327 Project Phase 3

<u>Instructions:</u> this phase of the project will entail everything that you have learned about SQL programming. Be sure that you review the scenario of this project very closely. NOTHING should be added to this project, you should work with the specifications that you have been given. This is an individual project.

In this phase you will be writing SQL code to create, setup, populate, insert, retrieve, and modify information. Your project (this phase) should be submitted in a report format. **This includes cover page, section headings, textual explanations of what is being displayed, text that summarize images, etc. Your report should end with a reference/citation/sources page.**

For each of the required material below you should have an explanation in your report to tell the reader what it is that they are looking at, whether it's code or images you should provide textual content to introduce the material.

- Provide all of the SQL that performs the following:
    - Creates your database (do not forget to check if it already exists and if so to delete it and re-create it; I will be running everyone's code and this needs to be a part of your code so that I don't have to keep deleting everyone's work manually.
    - Populate the tables as displayed on the Excel Worksheet (found in BB).
        - If you find errors with the worksheet please report them, there is a lot of data and I could have missed something.

- Your report should contain screen shots of the following
    - The ERD based off of the design provided by XAMPP
    - Screen shots of your populated tables after you have inserted information

- Provide the queries that you will have to run to retrieve the information that is required for each of your assigned reports.
    - NOTE: this does not have to be a huge single nested query. You can use multiple queries to attain the information required.

    - If your **first** name starts with A-H you will provide the following:
        - **Weekly Pay Stub** – Each employed worker receives a pay stub along with a check for the previous week's work. Information includes the check number, employee social security number, name, address, number of days worked, gross pay, taxes withheld, net pay, and year to date summaries of the payments and taxes.

- **Worker Jobs Report** – For any period (you select the time frame), the personnel director would like to have a report for each worker, including the worker's contact information, skills, skill levels, recommended jobs and levels, date hired, last date worked, average rating, and, for each job held during the period, the job title, client, and rating.

  - o If your **first** name starts with I – Z you will provide the following:
    - **Weekly Client Bill** – For the week just completed, the system should produce client bills that cover the charges for the verified time for each worker employed during that week. Besides the new charges, the bill should include the previous amount due, amount paid, and new amount due.
    - **Worker Jobs Report** – For any period (you select the time frame), the personnel director would like to have a report for each worker, including the worker's contact information, skills, skill levels, recommended jobs and levels, date hired, last date worked, average rating, and, for each job held during the period, the job title, client, and rating.

- Have a summary paragraph that discusses the normalization of your database. You are not required to achieve BCNF or 3NF with this project. You are only required to discuss the normalization in association to what you have been given. (Be sure to study your data before providing this summary)

REFERENCES:

If you used any sources other than lecture material or your textbook to complete your assignment you MUST cite your source to not be considered in violation of academic honesty. Majority of other sources will probably be found online, below is the structure you should use to cite your source. You should then place the source number next to the answer above.

[1] D. Holland, *Finding the Building Blocks of Wood*, The University of Melbourne, June 6, 2018. Accessed on: June 13, 2018. [Online].
Available: https://pursuit.unimelb.edu.au/articles/finding-the-building-blocks-of-wood?utm_source=linkedin.com&utm_medium=social&utm_content=story

Bonus information on next page

BONUS – 25 Points to be added to one of the required course categories (assignments, projects, exams, or attendance). Point will NOT be split. You may CHOOSE whether to apply it to Lecture or Lab.

1. Create a front end web application to connect to your database for the forms that are required. Forms assigned by **last** name:

L, M & R – Application

Worker Application Form-The prospective worker provides the following information:

date of application, name, address, telephone, alternate phone, social security number, highest education level, degree(s), institution(s) where earned, year(s) granted, skills, available dates and times.

S & W – Interview

Personnel Director Interview Form- After testing and interviewing the prospective worker, and checking references, the personnel director completes a confidential form that includes:

worker name, social security number, interview date, skill(s), level(s), recommended job type(s), recommended job level(s), reason for rejection (if not accepted).

D & H – Requisition

Job Requisition-The client representative completes a form with the following information for each job:

client name, client address, client telephone, contact person, job title, skills required, education level desired, desired start date, expected end date, days needed, daily hours, daily rate

(Note that the daily rate is the amount the client will pay the agency, not the amount the worker will be paid.)

A & B – Evaluation

Worker Evaluation Form – The client fills out this form when a job is completed, or at the end of six months' employment. A numeric rating from 1 (unsatisfactory) to 5 (excellent) is given, along with a comment to explain the rating, if desired. It includes

worker name, social security number, job title, evaluation date, rater name, rating, rating comment

a. You will need to include your front page code, database connection code, and processing code.
b. You will also be required to submit screen shots of your web page.
c. Keep in mind that due to foreign key constraints you may need to require the user to insert additional information to a table that does not directly correspond to this form
    o One way around this is for any foreign key, to have your site use a pull down menu for you to select from information that is already present.