**Project Step 6 - Develop Appropriate SQL Queries**

Part I:

As a database designer, you may need to work on the ***View Level*** of database as well. The output of your work will be used (1) by the Web/GUI developers to implement in their applications, (2) by the Report Writers to create reports, (3) by the Data Analysts to conduct research for the business, or by other users to do their data related activities.

Here is the list of the requirements of this assignment:

1. Develop **FIVE (5) SQL queries** related to the tables you created for your semester project. Review the Mission, Scope, Goals, and Requirements you set up in Step 1, and see what the database is supposed to do for the business, and then develop queries that the developers will use to create the Web/GUI applications or reports.
2. At least **TWO (2)** of those queries should involve at least two of your tables.
3. Take any **TWO (2)** of those queries and restate them in **relational algebra**.
4. You must stick to the tables you created in the previous steps of the project.

SELECT name, address FROM customer;

UPDATE positive\_related\_account

SET avail\_funds = ‘100’

WHERE trf\_ID = TRF1232;

UPDATE account

SET negative\_balance = ‘0’

WHERE negative\_acct = 12345678;

SELECT MIN(trf\_amount) AS Smallesttransfer

FROM transfer;

SELECT MAX(trf\_amount) AS Largestransfer

FROM transfer;

SELECT COUNT(trf\_ID), avail\_funds

FROM positive\_related\_account

GROUP BY avail\_funds;

SELECT account.negative\_acct, account.negative\_balance, payments.paym\_amount

FROM account

INNER JOIN payments ON account.Cust\_ID=payments.cust\_ID;

Part II:

With the knowledge you learned from **HCI**, create 3-4 web pages. You may draw on paper then take pictures and submit, or create html files and submit screen shots (also see Part III). The web page(s) may include ***mock-up*** database tables (also see Part III) from your own database you just created, along with user instructions, menus, navigation links, etc.

Part III (Optional):

This part is optional and can substitute the database portion of Part II. You will develop a web application that allows your users access the database you just created.

I recommend using your class issued Linux server account to create a PHP page with MySQL as back-end database server. **Sample PHP code is in your D2L Contents/Extra folder**. Here is the information about how to use this account:

1. Your web folder is ~/public\_html/. Your PHP files shall be saved here. Index.php or Index.htm is your home page.
2. Your public website shall be: http://sp-cfsics.metrostate.edu/~ics311fa2001nn. “ics311fa2001nn” is your Linux account username with “nn” being specific to you.
3. Do your own research on how to connect your PHP files to MySQL database.