1. What was your overall experience in designing and implementing this Database Project? Was it a positive or negative experience? Please explain.

The experience in designing and implementing database project is very interesting and pleasant. The project is equally divided into 3 parts. The instructions are clear and rubric is instructive.

This is of course a positive experience. I give this feedback based on following reasons:

1. By the end of project, I got familiar on technology on designing a database such as ER-Model, DDL&DML SQL sentence. I also gained the skill to handle the mysql workbench. And in my point of view, these skills will bring positive impacts on my life long careers.

2. The project is little bit challenging. It helps to strengthen my research ability. I pushed myself to learn new things, which are not covered in class, such as bootstrap and code codeigniter framework. In order to finish the project I learned a lot APIs. Even though at last they are not all implemented in our project, it is still good experience to learn them.

2. What was the most valuable aspect of your Database Project? The most challenging aspect?

I want to discuss most challenging aspect first:

1. As our project is a movie website, and in order to make it like a real web-site, not just toy one, the first challenge is get as much real data as possible. This challenge is solved by write php script to call the API periodically and then insert the data to our database. Sometimes it needs us to call different API at same time to get the data we want. For example, the poster image is stored as base_url and poster_path, we call the API to get them in a single file to get the image URL.

1. Second challenge is keep the code consistency. It can be seen as two sub challenge: First is how to maintain the code in our local machine; second is how to maintain the bug free code in <http://studentweb.comminfo.rutgers.edu>. Thanks to github (a powerful version control tool which enables me to roll to any point of my code history), the first challenge can be handled easily. But second one takes me a lot time to debug line by line manually.

Here list most valuable aspects of our project:

1. It's a real website, which has nearly 600 movies, 10000 persons (directors and actors), and 30 users (even though 28 of them are generated by random functions).
2. It's real dynamic. The page construction is controlled by an application server processing server-side scripts.

3. (For Group Members only) If you worked in a pair group, please summarize your contributions on this project and to your fellow team member.

I'd like to say our contributions are equal. We spend a lot time on brainstorming, researching, coding and debugging. Only difference is, in coding phase, Bowen Pan is more focused on front end coding. My primary is task is back-end coding.

5. How did you like using the MySQL WorkBench tools for designing, testing and implementing the structure and relationships for your database? Explain how these tools helped you in completing the steps for database design and management in your Database Project.

MySQL WorkBench is a very powerful tool. I love the model tool of MySQL WorkBench the most. The main reason is it really makes the things simple.

In designing phase, we can draw the ER-Digram directly by using mysql workbench tool. The forward engineer function is awesome. After we created the tables, relationships and constrains, it help us to build the database just by simple clicks.
For testing, workbench offers us GUI other than traditional command terminal. It is a big advantage, which makes data populate, data modification and deletion much simpler.
In implementing the export and import function of mysql workbench is quite useful. It saved my data thousands of times. (I kept both mysql workbench 5.2 and mysql workbench 6.0. The 6.0 did better in data exporting aspect. )

6. Were the project instructions and resources helpful in guiding you through all the phases of the Database Project? Were the Rubrics helpful in communicating the instructor's expectations and also how you would be graded on key assignments? Please explain.

I will give an up vote for that the project instructions and resources are helpful in guiding us through all the phases of the database project.

The Rubrics gives very detail information about how the project will be rated. I love the quantitive criteria, because every thing I do can be measured so that I can clearly know how much I need to do to fulfill professor's expect.
The instructions help us narrow the complexity tasks down. We just followed instruction step by step. When we finished all, we found "wow, we get the whole things done!"

7. What was your personal favorite Database Design and Management tactic that you learned in this course? Please explain.

My favorite Database Design and Management tactic is to implement normal forms to guide and assesses database design.
By doing so, we can eliminate the modification, insertion and deletion anomalies. In some poor design database, such anomalies always happen. Such anomalies decreases system efficiency or even result in errors。
On the other hand, the performance of database can be boosted. The normalization tends to separate the logic individual entity into a sing table, which some how narrows the columns. As we know searching, sorting, and creating indexes is faster, since tables are narrower, and more rows fit on a data page.
The additional advantage is more tables allow better use of segments to control physical placement of data. This is true that we can just keep single part of system updated so that the whole system is updated as well if we followed the normalization principle in database design.

8. After taking this course, do you feel better informed and equipped to actually work in the field of Database Design and Management? Please explain.

Yes, I'm more familiar with the actually work in the field of Database Design and Management. I get to know some basic things on actually work in Database Design and Management industry. And by working through the course project, I feel like as if I go through design, implement, redesign and test phases in Database works.

9. This course used a combination of classroom lectures, individual lab projects, LyndaCampus online tutorials, and student-centered collaborative model building. Was this combination of learning methods helpful for you in learning the course material and completing your Database Project? Please explain.

LyndaCampus online tutorials are good. It accompanied with exercise file, the lecture gives us hand-by-hand experience on mysql and php, which are quite

helpful in our database project. The classroom lectures are good as well. They are not only introducing us knowledge, but also show us how to put our application on web sever The individual lab projects give us chances to applied what we learned on real time scenario. And they also offer us chances to share the database design analysis and ideas with classmates.

10. Do you have any suggestions for improving this Database Project?

I think the project is good, I have no suggestions, But I do have one suggestion for this course. We should be granted to create our own schema in mysql server other than put all things into `class-2014-1-17-610-557-01_jz337` schema. First it is not a good habit to put all things together without any classify. Secondly, model can be easily overwritten by careless mistakes.