Open Survey System

V2.0

(Development Process)

Software Development Life Cycle (SDLC)

Evolutionary Prototyping Model Process

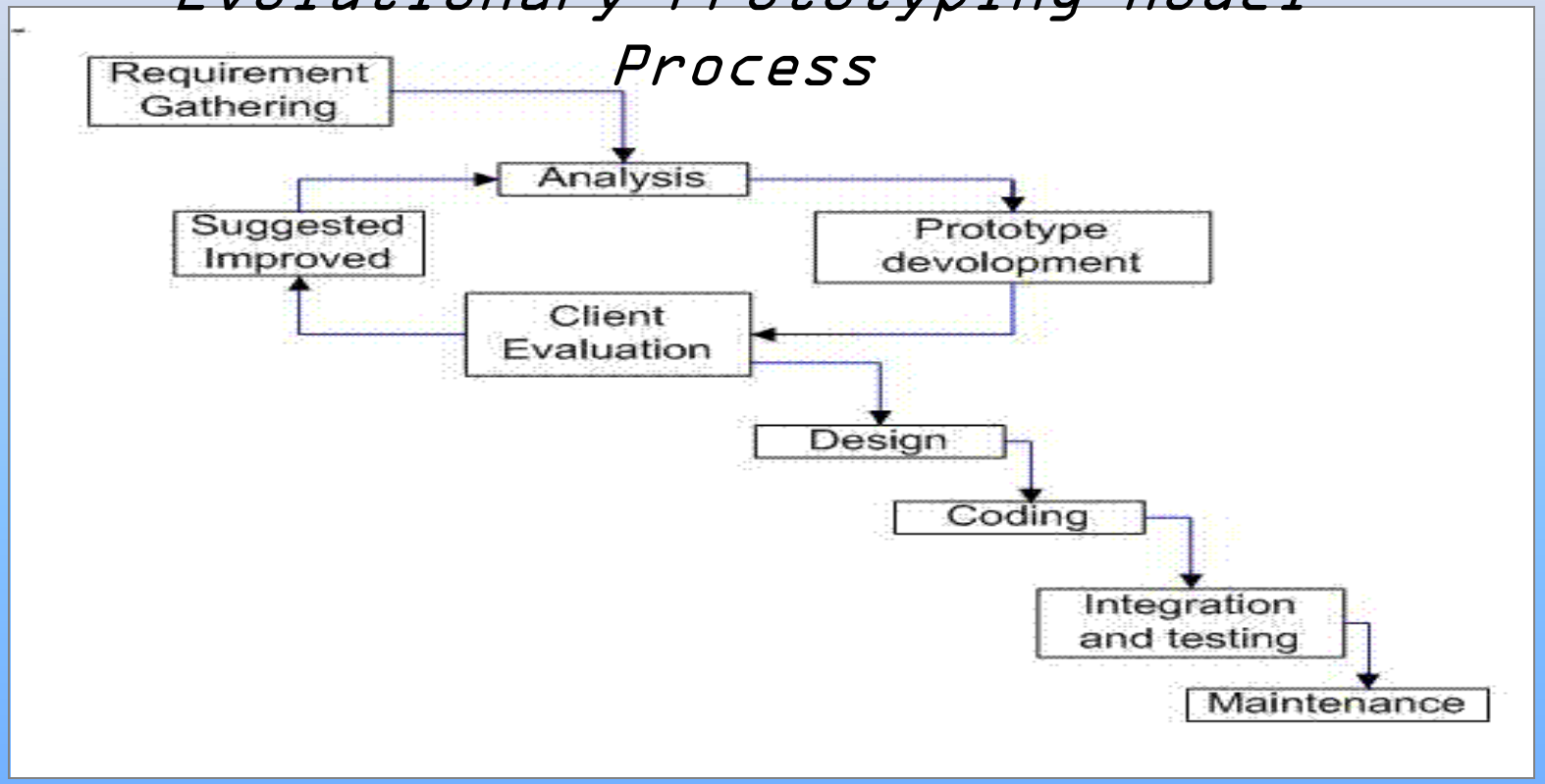

Figure 1. SDLC

Phase 1: Requirement Gathering

In this phase, the programmer tries to find out the need of the user for the database system. An extensive study through interview UN-HABITAT Research and Information Officer and UN-HABITAT Mapper, and field coordinators about what will be the design and process of the system. This phase helped the programmer to enhance and develop the database system suitable to the needs of each LGU and help the technician discover new ideas in improving the database system for better and faster data processing.

Phase 2: Analysis

After studying the design and process that suitable for the database system. The programmer realized what should be done to fulfill the requirement/s in order to develop the database system. The hardware and software requirements which will make the program run efficiently.

Phase 3: Prototype Development

The programmer created a sample prototype of each features/function of the software database to showcase what would be the design of each function interface.

Phase 4: Client Evaluation

In this phase, the technician presented the prototype twice a month to the UN-HABITAT Tacloban team together with the field coordinators in Region VIII.

Phase 5: Suggested Improved

After the evaluation, this phase helps the programmer to know what the recommendation and suggestions that can be apply in the database system.

Phase 6: Design

The Open Survey System is coded using Visual Basic 6.0 for the front end and MYSQL for database server (back end).

Phase 7: Coding

In this phase, the programmer began to input source code for the database system. The kind of coding varies depending on what programming language used by the technician and queries complexity of each functions in the system. This is the most part wherein the technician times are consumed. This is due to the fact that this is the essential part of the system. This is where all computations are being done, processed, and what kind of database system will be the outcome.

Phase 8: Integration and Testing

This is the phase where in the users of the program will begin to use the installed database system. This is to see if there are any problems that the user will encounter. This phase is mainly to see if the user is comfortable using the newly database system. Any errors that were occurred when the user used the system are subject to change immediately. Most of the inconvenience that the user has encountered are done and changed through maintenance.

Phase 9: Maintenance

In this is the final phase where all the other phases are checked. Any revisions or alterations in the database system are done in this stage so as to perform efficiently. This phase includes training of the users of the system and planning for better ideas to improve the ease of the interactions between the users and the new software. Once all errors have been solved and the system has been improved the database system is then ready for implementation and use.

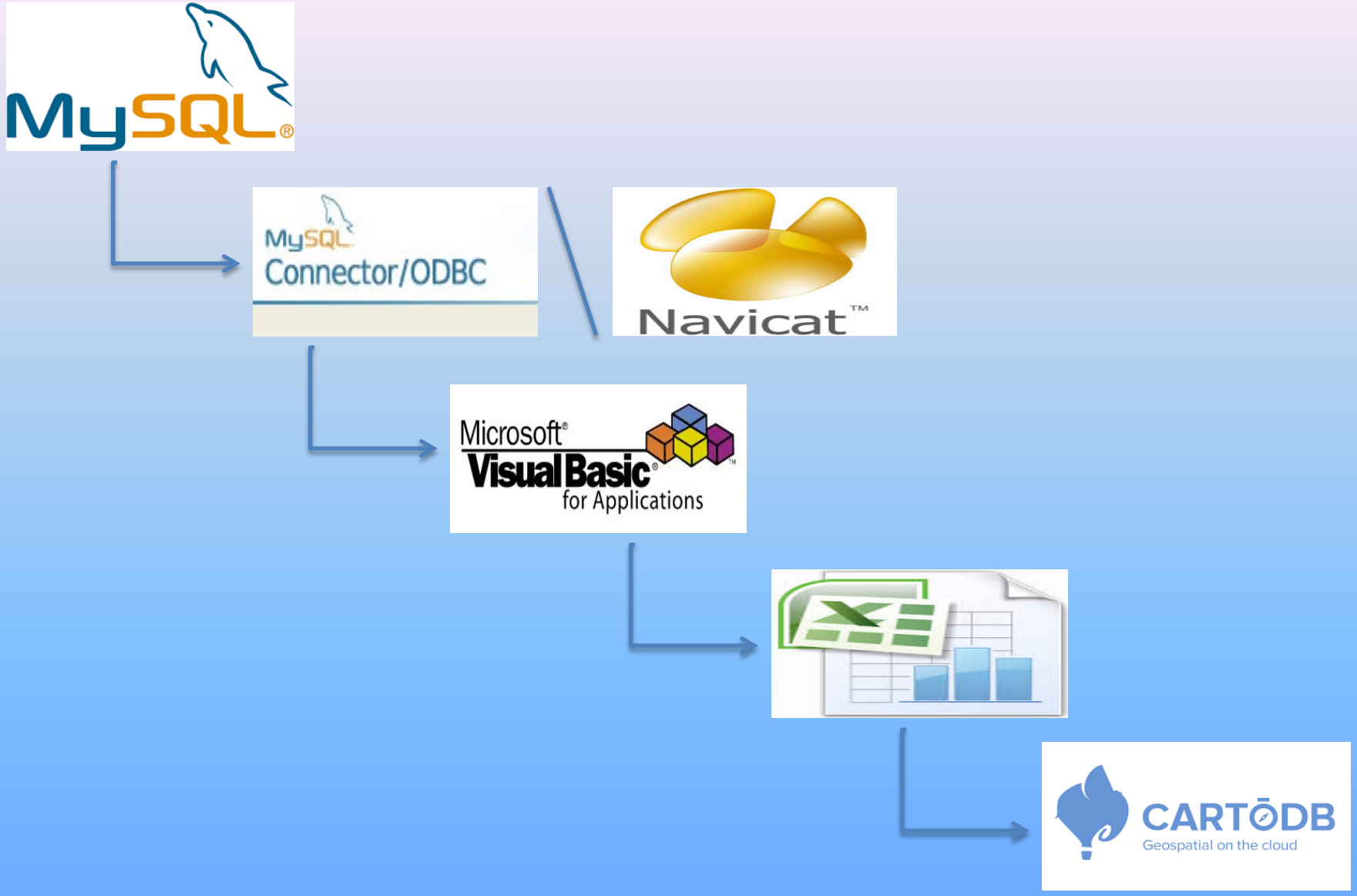

Figure 2. Simple Chart OSS Database

Database Design

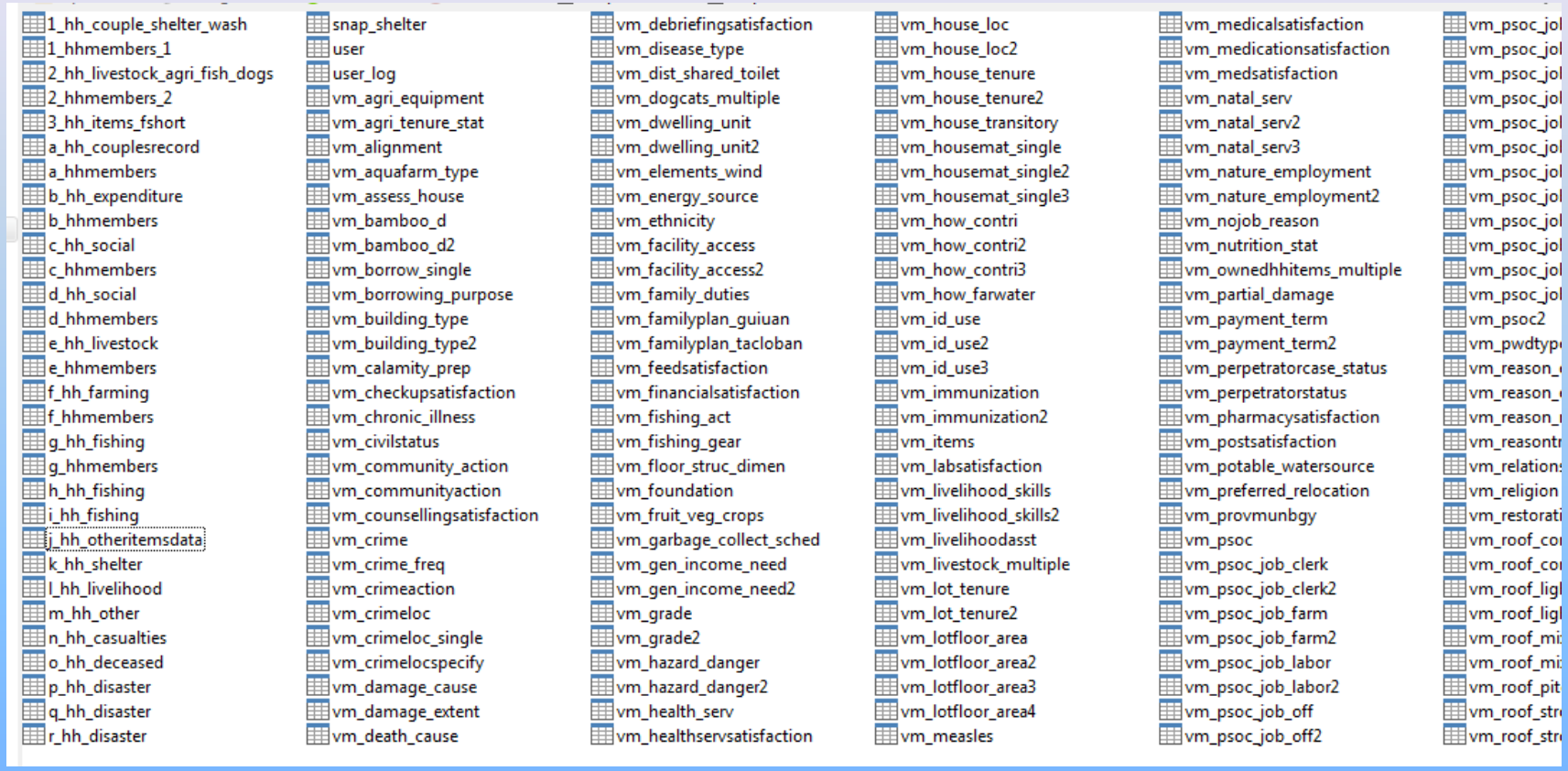

Figure 3. Database Normalization Design

294 Database Tables

Tables are Divided into 3 Parts

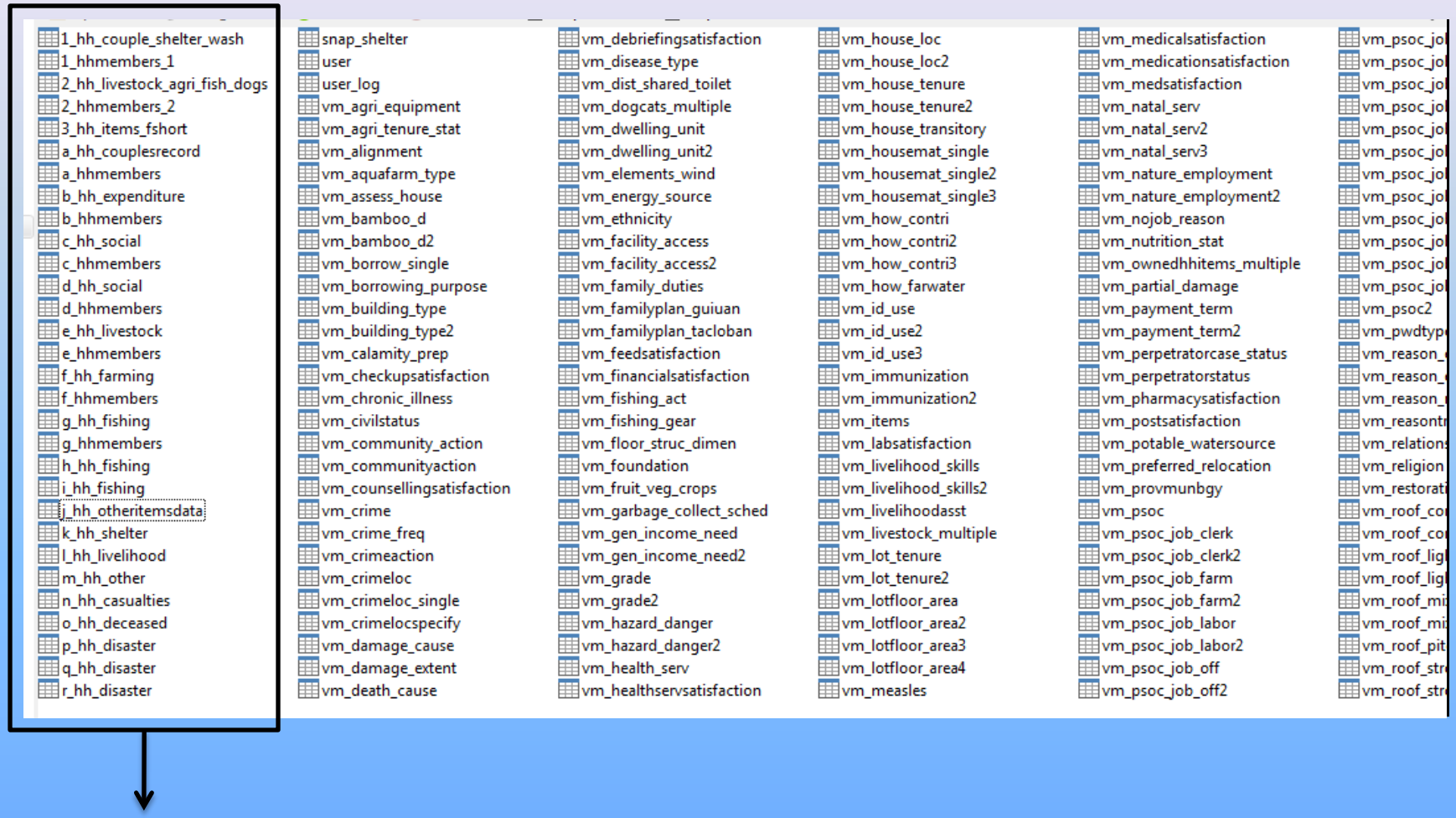

Figure 4. Household Tables

Tables are Divided into 3 Parts

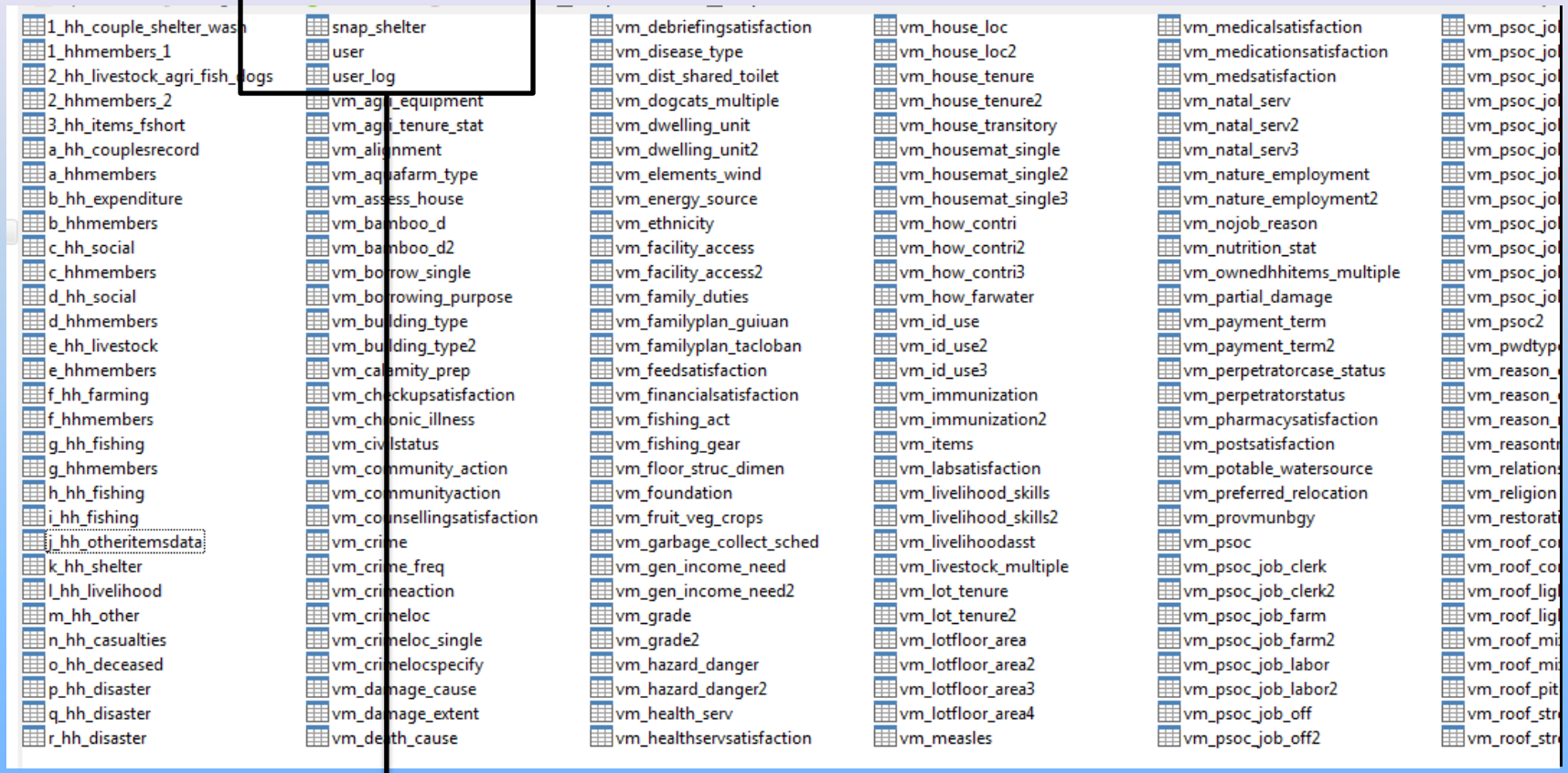

Figure 5. User Tables

Tables are Divided into 3 Parts

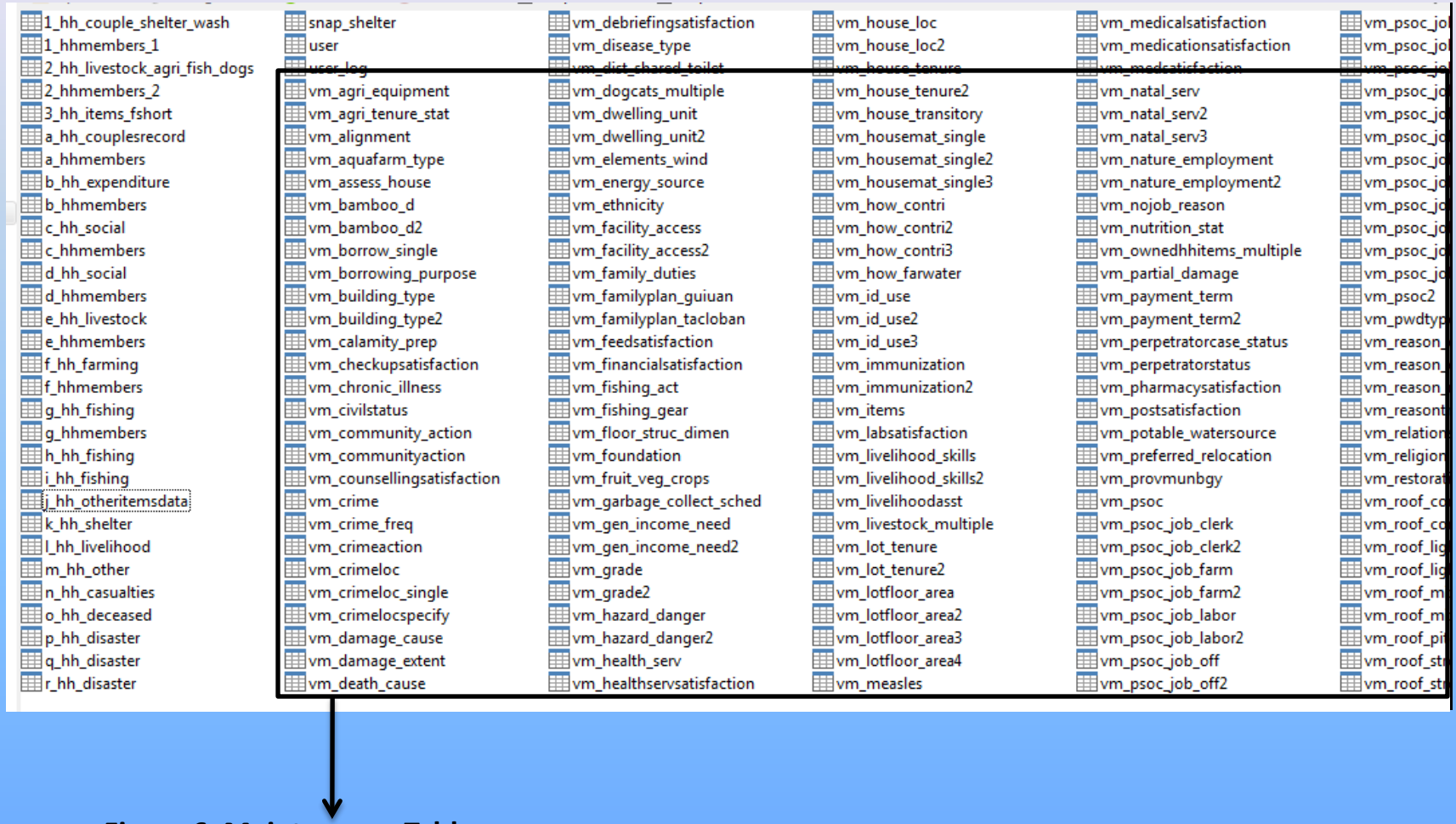

Figure 6. Maintenance Tables

Database Design

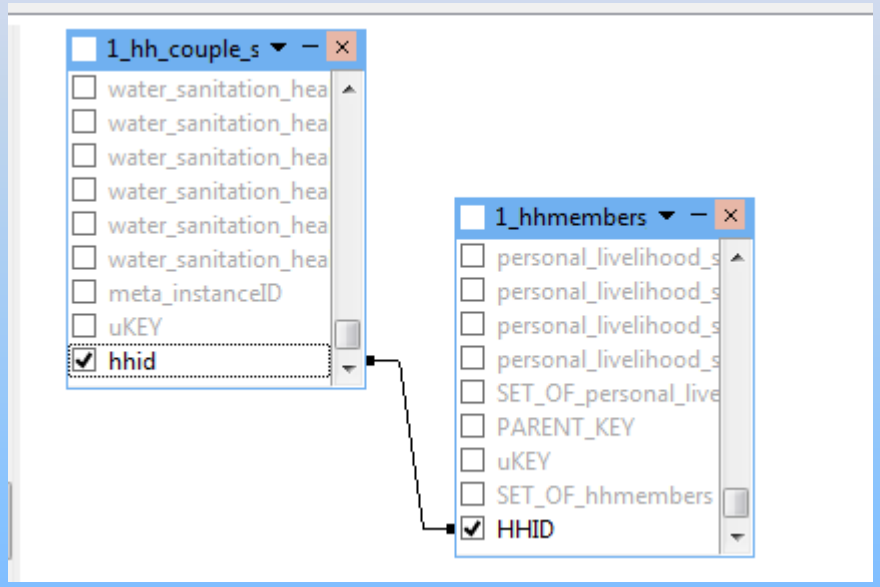

Figure 7. Database Design

Software Development Life Cycle (SDLC)

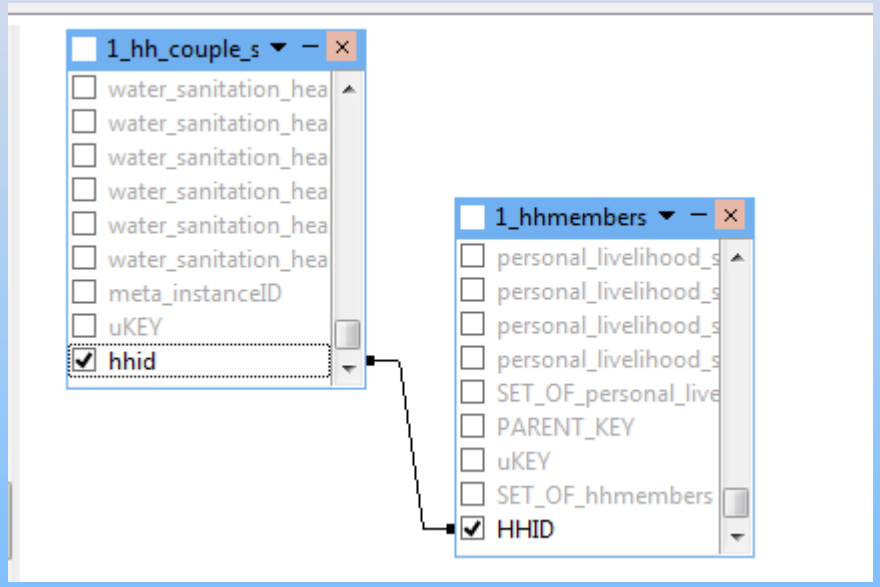

Figure 6. Database Design

The End