

The data modelling for management decision making of waterworks system is the database design for information which will support decision making. By data modelling theories and relational database concept, the basic data structure and the procedures of data processing of the existing system had been analyzed. These analyses will be the helpful information for any levels of waterworks management section.

✎ The data structure of waterworks system consisted of two systems, they are Accounting and Production system. The Accounting system included four subsystems Sales and Account Receivable, Petty Cash, Fix Asset and General ledger. The production system included information about water production, water distribution and material inventory control. The information will be summarized into reports.

From those data structures, the models are designed by entities and relations identifying to form the relational database. There are 31 entities for four data models Production data model, Sales and account Receivable data model, Fix Asset data model and Financial and Accounting data model. From this research, the information for management section will become more accuracy. The redundancy together with inconsistency of data will be eliminated as well. Moreover, after the appropriate hardware and software selection is performed, the relational database can be further developed by using these designed models.