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The purpose of this research is to compute the project cost for budget planning and the base cost for bidding. In addition, the development of criteria for data categorization will be an intangible advantage. The study and analysis of the power transmission system for voltage between 22-500 kilovolts consists of 2 main works, that is transmission line work and substation work. Civil, land acquisition and communication work are included by their association. The three procedures are as follows :

1. Specify the equipment codes and the standard module codes.
2. Analyze by using the concepts of logical data modeling.
3. Design and develop of a prototype by using the concepts of relational database design on the ORACLE relational database management system.

As a result of this, we can get the data model and the database including the integrity and security control system.