Development of Star model for data warehouse (DW) requires ample amount of time, experience, expertise and adequate knowledge of data warehouse designing steps. As an alternative to data warehouse designing steps, transformation techniques are used. These techniques transform ER model (of relational OLTP) to Star model/s. In this study, we present and evaluate a systematic approach for transformation of ER model to Star model. Based on an experiment, we prove that, by using our approach, inexperienced designers can produce Star models identical to the star models produced by experienced data warehouse designers.