

# RELATIONAL AND NON-RELATIONAL DATA MODEL FOR ELEPHANTI EOCSYSTEM

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Elephanti ecosystem involves exchanging huge volumes of data to and from its underlying data stores. With the increase of the user base the requirement arises to maintain high availability to meet the reliability and scaling needs in a cost effective manner. The current implementation of the underlying data layer was modeled using the principles of relational data modeling techniques. But this method had its limitations due the multiple relationships involve in organizing the data. As a solution to this part of the data model was modeled using the non-relational (NoSQL – Not only Structured Query Language) data modeling techniques called document database model. Which organized the data into rows without having the restriction of not requiring to have equal number of columns for a given relation/table. Also it provided the facility to store group of data in a single cell, from the relational data modelling terminology the data is organized in the most deformed form.