

# Project Phase 3 - Mapping to Relational Model

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## Mapping to a relational model

The EER model designed in phase 2 of our project was mapped to an equivalent relational model with the following structure



This is in 1NF as all attributes are atomic.

It also satisfies 2NF. In every functional dependency, the non-prime attributes are fully dependant on every key of the relation.

## Converting to 3NF

We notice that the above relation is *not* in 3NF. In relation ADDRESS, state and pincode depend on city, which is not a key. So it was by moving city, state and address to a separate relation and making city a foreign key.

