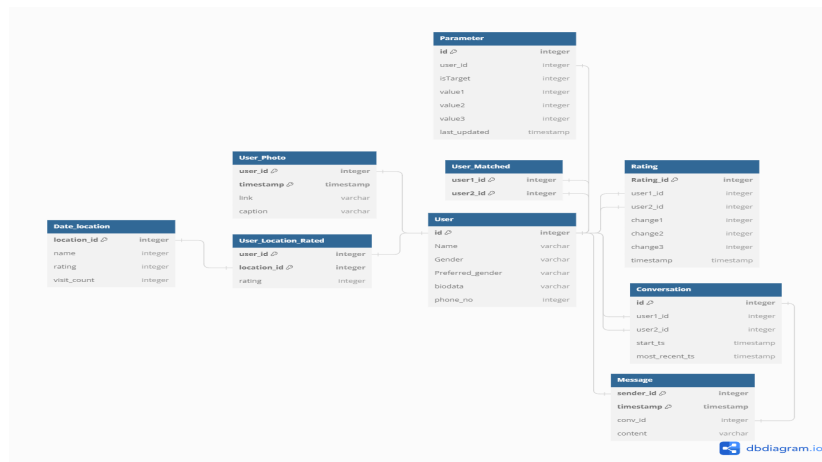


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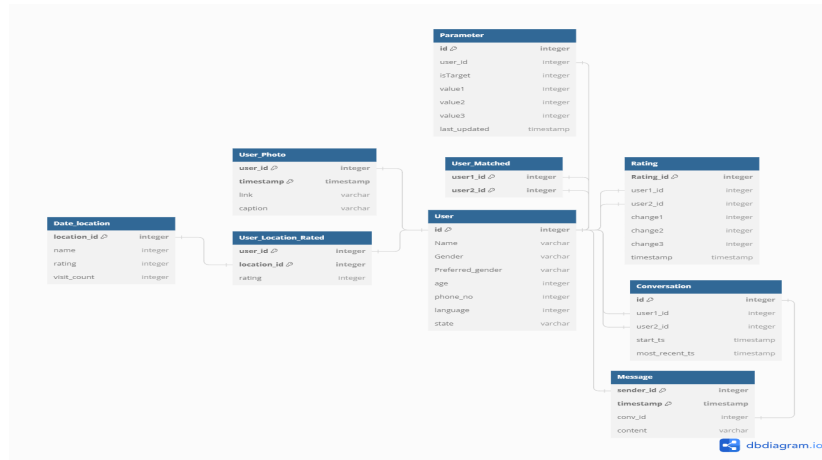
November 2023

1 Relational Model



2 1NF

Here the Users.Biodata is a composite attribute and must therefore be split into its parts i.e language, age, state. Further Users.language and Users.phone_no are multivalued attributes and must therefore have duplicate records in the 1NF.



3 2NF

Here there are no attributes which are dependent on a subset of the primary key hence the previous diagram is in 2NF

4 3NF

1. User_photo is separated into two tables as {user_id,timestamp} → link and link → caption (from the link we use to save the photo we can identify that photo and its caption)
2. Conversation is also split into two tables as primary key conv_id → {user1_id,user2_id} and {user1_id, user2_id} → {start_ts,most_recent_ts} as by knowing which two users are conversing we can figure out when they started and theyre most recent message

