Database Re-Design

Trying to identify the best method to structure my data for my application was not as simple as I had originally thought. I am planning on using Postgres for the data structures of my application. I think for the relational aspect and ease of querying with filters will allow this database to garner the information necessary to produce the product output of preference-based events for users. In addition, I think since I can store json data types within Postgres database tables, I feel that would be the most efficient method for storing preference data for users.

In my database re-design in addition to the 3 major tables I can initially identify as being required I have added a third table to account for the ratings stretch feature. So the tables that will potential be created are: Users, Preferences, Ratings and Events. The user table will utilize primitive data structure (i.e. characters, integers) and will be linked to the preferences table via user ID, which points to json data structures stored for a given user based on their preference selections. These preferences will serve as filter attributes for the querying the events database in order to garner the event data most closely aligned to user preference json. For the stretch component, the UserID of the User table will act as the foreign key that identifies ratings of venues that a logged in user has submitted. There is a potential for a one to many relationships between the Users Table and Ratings table in the stretch feature.

The events table is going to be the bigger of all the tables as it will hold as much detailed information about each event for the purpose of providing information for the user but also for the purpose of increasing filter points for data retrieval. The following is potential diagram of the database tables that will be primarily included within MVP.

What2DoSTL_Database_Re-Design

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