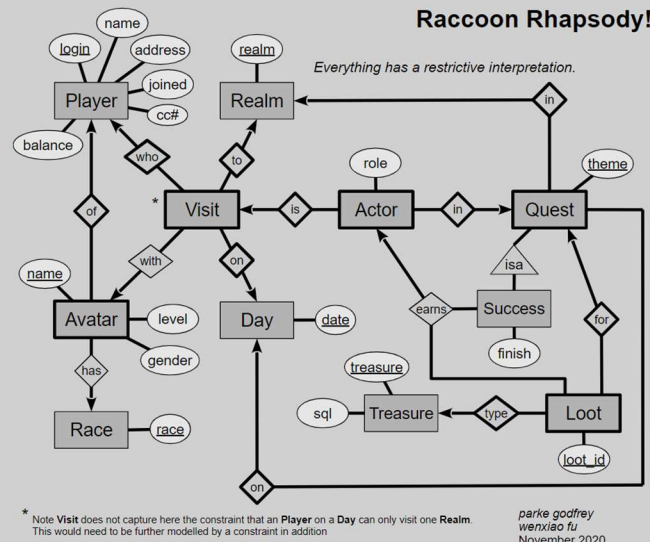


Here is an E/R schema adaptation of the *description* above.



Relational Schema of Raccoon Rhapsody

We further adapt the E/R design to a *relational schema* and add data. Two scripts are provided for PostgreSQL:

- [rrdb-create](#), and
- [rrdb-drop](#).

The script *rrdb-create* will create the RR-DB relational schema for you, *and* will also populate the tables with the mock data. The script *rrdb-drop* is provided for convenience; It will drop your copy of RR-DB from your schema space. If you mess things up, you can always drop RR-DB and then re-create it easily.

Read the schema definition in *rrdb-create* for RR-DB to understand it fully.

The Queries

Write an *SQL* query for each of the following with respect to the RR-DB database.

1. myself

List each player whose login is part of his or her name; i.e., his or her login is a substring of his or her name. This should be case insensitive; e.g., "thom" is a substring of "Thomas Kane".

schema: login, name, gender, address, joined
order by login (asc)

answer table: myself

2. golden

List each quest by realm, day, and theme which offered a prize (treasure) with "Gold" in the name which was rewarded to some player.

schema: realm, day, theme
order by day, realm, theme

answer table (first 12 records): golden

<p>3. evening</p> <p>List the quests by <i>theme</i>, <i>day</i>, and <i>realm</i> that were <i>not</i> completed <i>before</i> 8pm (on the <i>day</i> of the quest) with their <i>succeeded</i> time (which is <i>null</i> if it did not succeed).</p> <p>schema: theme, day, realm, succeeded order by theme, day, realm</p> <p>answer table (first 12 records): <u>evening</u></p>
<p>4. cheat</p> <p>Report for each player by <i>login</i> and <i>name</i> who managed to participate in <i>more than one</i> quest on the same day, along with those quests by <i>day</i>, <i>realm</i>, and <i>theme</i>.</p> <p>schema: login, name, day, realm, theme order by login, name, day, realm, theme</p> <p>answer table (first two records): <u>cheat</u></p>
<p>5. bend</p> <p>List each player by <i>login</i>, <i>name</i>, and <i>gender</i> who <i>gender</i> swapped at least once with their avatars, along with the count of how many avatars that he or she has (<i>avatars</i>).</p> <p>schema: login, name, gender, avatars order by login</p> <p>answer table (first three records): <u>bend</u></p>
<p>6. successful</p> <p>Select the themes (<i>theme</i>) for which the <i>quests</i> were always <i>successful</i>, and report the number of successful quests (<i>quests</i>) for each such.</p> <p>schema: theme, quests order by theme</p> <p>answer table (first three records): <u>successful</u></p>
<p>7. frequency</p> <p>Report the average number of days (as <i>frequency</i>) between visits to each given realm for each player. Also show the number of visits (<i>visits</i>) to that realm for the player. (Ignore a player in a realm if the player has never visited it or has only visited it once; the <i>frequency</i> is not defined in such cases.)</p> <p>notes</p> <ul style="list-style-type: none">• Cast frequency with precision five and scale two. <p>schema: login, realm, visits, frequency order by login, realm</p>