Users

* user\_id (key)
* email
* password
* credit\_total
* quality\_weight
* flag\_count
* admin

lists

* list\_id (key)
* creator\_id (foreign key, user\_id)
* list\_name
* description
* flag\_count

entities

* entity\_id (key)
* Creator\_id (foreign\_key, user\_id)
* list\_id
* name
* desc
* avg\_rating
* flag\_count

ratings

* Key: (user\_id, lst\_id, entity\_id)
* User\_id
* list\_id
* entity\_id
* rating

ListFlags

* user\_id
* list\_id

EntityFlags

* user\_id
* entity\_id

WRAPPER FUNCTIONS

1. Create user
   1. Requires: email, password
   2. Process:
      1. Verify email is @upenn.edu
      2. Initiate with credit\_total 10, flag\_count 0, quality\_weight 1
2. Create list
   1. Requires: creator\_id, name, desc
   2. Process:
      1. Verify the name isn’t empty
      2. Initiate with flag\_count 0
3. Create entity
   1. Requires: creator\_id, list\_id, name, desc
   2. Process:
      1. Initiate with avg\_rating 0, flag\_count 0
4. Add rating
   1. Requires: user\_id, list\_id, entity\_id, rating
   2. Process:
      1. Add entry to ratings table
      2. Update entities table to reflect new average rating
5. Add flag to list
   1. Requires: user\_id, list\_id
   2. Process:
      1. Check to make sure user\_id, list\_id doesn’t already exist in list\_flags
      2. Add entry to list\_flags w/ user\_id, list\_id
      3. Up the flag\_count on list\_id in lists
      4. If flag\_count is >10, delete the list
6. Add flag to entity
   1. Requires: user\_id, entity\_id
   2. Process:
      1. Check to make sure user\_id, entity\_id doesn’t already exist in entity\_flags
      2. Add entry to entity\_flags w/ user\_id, entity\_id
      3. Up the flag\_count on entity\_id in entities
      4. If flag\_count is >10, delete the entity

DB Details

* Identifier: bestofpenn
* Master username: masteruser
* Master password: Bestofpenn213
* DB Name: BestOfDB
* Endpoint: **bestofpenn.cqf3bokykxqv.us-east-1.rds.amazonaws.com:1521**
* To connect:

sqlplus 'masteruser@(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=bestofpenn.cqf3bokykxqv.us-east-1.r ds.amazonaws.com)(PORT=1521))(CONNECT\_DATA=(SID=BestOfDB)))'

* Identifier: bestofpennmysql
* Master username: masteruser
* Master password: Bestofpenn213
* DB Name: BestOfDBMySQL
* Endpoint: **bestofpennmysql.cqf3bokykxqv.us-east-1.rds.amazonaws.com:3306**
* To connect:

sqlplus 'masteruser@(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=**bestofpennmysql.cqf3bokykxqv.us-east-1.rds.amazonaws.com**)(PORT=3306))(CONNECT\_DATA=(SID=BestOfDBMySQL)))'

mysql -h **bestofpennmysql.cqf3bokykxqv.us-east-1.rds.amazonaws.com** -u masteruser -p BestOfDBMySQL