QUERIES FOR STAKEHOLDERS

Kev:

^^ Means its data manipulation

- 1. User
 - 1. Problems of certain tags & difficulties
 - 2. Solved & Unsolved problems
 - a. Difficult problems not solved
 - b. % between problems
 - 3. Give me repos of certain tag, certain language
 - 4. Give me blogs of certain tag, certain user & likes of blog
 - 5. User comparison (premium)
 - a. Number of problems solved
 - b. Ratings
 - c. Difficulty
 - d. Tags
 - 6. Check my profile visits (premium)
 - 7. List of my groups along with role & date of joining
 - a. Group blogs
 - b. Other members of group
 - c. Write a blog ^^
 - 8. Form Group ^^
 - 9. List my followers and following
 - 10. List technical admin, premium admin
- 2. Group Admin (Specializes User)
 - 1. Pending Requests
 - 2. Check user ratings
 - 3. Members or
 - 4. Remove, Add ^^
 - Blogs
 - a. Tags of blogs & Likes
 - b. User specific blogs
 - c. Date specific blogs
- 3. Recruiter
 - 1. List of preferred users
 - 2. List of recruited users
 - 3. List of users by
 - a. Location
 - b. Language
 - c. Ratings
 - d. Strengths

- 4. User comparison
- 5. How many problems have been solved by user after a certain date
- 4. Programming Organization
 - 1. Number of users from the organization
 - 2. Contests (Specializing from blog)
 - a. Give me contests after a certain date
 - b. Likes on contests
 - c. Maximum liked contest
 - 3. Revenue Spent
 - 4. How many ads have I posted
 - 5. Percentage Increase in users Vs Revenue Spent

5. Admin

- 1. Have various roles (IMP) like general, recruiter, programming organization
- 2. Total number of Users
- 3. Total number of Recruiters
- 4. Total number of Organizations
- 5. Revenue generated
- 6. Reported accounts
- 7. New users joined, New Recruiters joined, New Groups & New Programming Organizations (% of change)
- 8. See Premium users, new premiums (% of change)
- 9. Premium charge & Add charge

Updates:

- Premium user should specialize user, (Time of subscription, Amount paid)
- Should ads be optional?
- Attributes being copied could be realized as a foreign key (Identity has that foreign key)
- % increase in users as a parameter for Programming Organization
- Are pending requests optional?
- Ads in Programming Organization is covered in 'Pays To'
- Premium user Pays To Admin (Only to one)
- Added list of preferred and recruited users.
- Do users like blogs & contests? ??
- Grp to user is now a "admin of" relationship
- Premium users also contain an amount pair and subscription time.
- Date of solving and language ?????
- doubts in cardinality (following and followers)
- Identity now consists ID now as of foreign key and its discriminator key would be email + ID
- Group ID, a user can be admin of many groups
- Dates of recruitment by recruiter
- Tags & template is going to be a multivalued attribute
- Problems primary key is Organization ID + problem ID

- For a strong entity with an ID, primary key is :- role + ID
- Identity shouldn't be a weak entity
- Admin as an entity? Should add roles so that each group can have specific pays
- Location Multivalued ??
- A user shouldn't be able to create two repos with the same name
- Problem 'solves' should be derived attribute
- Add rating on registration relationship could be null

Doubts:

Can attributes be repeated?

Cardinalities?

How to maintain constant like subscription fees?

How to denote derived & composite attributes in mysql.

Relationships:

In User

Following people & followers

Codeforces & Leetcode is a relationship from tables of programming organizations

Identity is relationship

Repos is relationship

Blogs is a relationship

In Repo

TodoList is a relationship

Favourites is a relationship

In Programming Organization

Contests are a relationship

Users relationship

Ads is a relationship (Weak entity)

In recruiter:

List of preferred & list of recruited is relationship

Todo:

How to write derived attributes in mysql

How to write composite attributes

Constraints https://www.w3schools.com/sql/sql constraints.asp

Location attribute type?

Data types: https://www.tutorialspoint.com/mysql/mysql-data-types.htm

https://www.w3schools.com/sql/sql_datatypes.asp

https://github.com/shash42/Online-University-Database/blob/main/definition.sql

https://github.com/nahimilega/Fit.io/blob/master/Project%20Report.pdf

https://github.com/rishi-raj-jain/Friendly-Farmers-101/tree/master/app

Updating table using python script

https://www.tutorialspoint.com/python_data_access/python_mysql_database_connection

.htm

ER diagram to relational model

https://www.slideshare.net/ARADHYAYANA/er-diagram-to-relational-schema-mapping Handling derived attributes

https://stackoverflow.com/questions/14526140/mysql-calculate-derived-attribute https://www.javaguicodexample.com/erdrelationalmodelnotes.html