## This questions were asked in a Google interview

## Given the 2 tables below, User and UserHistory:

## User

user\_id
name
phone num

## UserHistory

user\_id date action

**1.** Write a SQL query that returns the name, phone number and most recent date for any user that has logged in over the last 30 days (you can tell a user has logged in if the action field in UserHistory is set to "logged\_on").

Every time a user logs in a new row is inserted into the UserHistory table with user\_id, current date and action (where action = "logged\_on").

- **2.** Write a SQL query to determine which user\_ids in the User table are not contained in the UserHistory table (assume the UserHistory table has a subset of the user\_ids in User table). Do not use the SQL MINUS statement. Note: the UserHistory table can have multiple entries for each user\_id.
- **3.** Given the tables above, write a SQL query to determine which user\_ids in the User table are not contained in the UserHistory table (assume the UserHistory table has a subset of the user\_ids in User table). Do not use the SQL MINUS statement. Note: the UserHistory table can have multiple entries for each user\_id.

Note that your SQL should be compatible with MySQL 5.0, and avoid using subqueries.