User(<u>u_id</u>, firstName, lastName, email, password, birthday, gender, isAdmin)

Results(<u>r_id</u>, score, time, hardness, topic, User.u_id)

Challenges(<u>c_id</u>, time, hardness, topic, User.u_id)

Questions(q_id, topic, hardness, question, correct, wrong1, wrong2, wrong3)

Friends(<u>User.u_id1</u>, <u>User.u_id2</u>, since)

Challenged(c_id, challenged)

 $Has(\underline{c}_{\underline{i}}\underline{d}, \underline{q}_{\underline{i}}\underline{d})$