

Comment (comment_ID, comment_ID_pai)

User (user_name, email, rating, password, user_city, user_country, user_state, registration_date)

Friendship (user_name_1, user_name_2)
(user_name_1, user_name_2) → User(user_name)

Blog_Entry (entry_ID, user_name!, title)
user_name → User(user_name)

BlogEntry_Comment_User_Creates (blog_Entry_ID, comment_ID, user_name, date)
blog_Entry_ID → Blog_Entry(entry_ID)
comment_ID → Comment(comment_ID)
user_name → User(user_name)

Group (group_ID, group_name, user_name_creator!, is_private, qnt_members)
user_name_creator → User(user_name)

User_Participa_Group (group_ID, user_name)
group_ID → Group(group_ID)
user_name → User(user_name)

Contest (contest_ID, group_ID, is_private, start_time, frozen, duration, name, user_name_creator)
group_ID → Group(group_ID)
user_name_creator → User(user_name)

Gym (contest_ID, institution, original_event_name)
contest_ID → Contest(contest_ID)

User_Participa_Contest (user_name, contest_ID, ranking)
user_name → User(user_name)
contest_ID → Contest(contest_ID)

Submission (submission_ID, user_name_submission!, submission_time, language, time_consumed, points)
user_name_submission → User(user_name)

Solution (problem_ID)
problem_ID → Problem(problem_ID)

Problem (problem_ID, difficulty, index, points, solved_count)

Problem_Supported_languages (problem_ID, language)
problem_ID → Problem(problem_ID)

Verdict (verdict_ID)

Submission_Tem_Problem (submission_ID, problem_ID, verdict_ID, status)
submission_ID → Submission(submission_ID)
problem_ID → Problem(problem_ID)
verdict_ID → Verdict(verdict_ID)

Contest_Tem (contest_ID, submission_tem_problem_ID)
contest_ID → Contest(contest_ID)
submission_tem_problem_ID → Submission_Tem_Problem(submission_ID, problem_ID)

TestCase (problem_ID, testcase_dics)
problem_ID → Problem(problem_ID)