Comment (<u>comment_ID</u>, comment_ID_pai)

User (<u>userID</u>, userName, email, rating, password, user_city, user_country, user_state, registration_date)

Friendship (<u>userID_1, userID_2</u>)
    (userID_1, userID_2) → User(userID)

Blog_Entry (<u>entry_ID</u>, userID!, title)
    userID → User(userID)

BlogEntry_Comment_User_Creates (<u>blog_Entry_ID, comment_ID, userID, date</u>)
    blog_Entry_ID → Blog_Entry(entry_ID)
    comment_ID → Comment(comment_ID)
    userID → User(userID)

Group (<u>group_ID</u>, group_name, userID_creator!, is_private, qnt_members, type)
    userID_creator → User(ID)

User_Participa_Group (<u>group_ID, userID</u>)
    group_ID → Group(group_ID)
    userID → User(userID)

Contest (<u>contest_ID</u>, group_ID, is_private, start_time, frozen, duration, name, userID_creator)
    group_ID → Group(group_ID)
    userID_creator → User(userID)

Gym (<u>gym_ID</u>, institution, original_event_name)
    gymID → Contest(contest_ID)

User_Participa_Contest (<u>userID, contest_ID</u>, ranking)
    userID → User(userID)
    contest_ID → Contest(contest_ID)

Submission (<u>submission_ID</u>, userID_submission!, submission_time, language, time_consumed, points)
    userID_submission → User(userID)

Solution (<u>problem_ID</u>)
    problem_ID →Problem(problem_ID)

Problem (<u>problem_ID</u>, problem_statement, difficulty, index, points, solved_count)

Problem_Supported_languages (<u>problem_ID, language</u>)
    problem_ID → Problem(problem_ID)

Verdict (<u>verdict_ID</u>)

Submission_Tem_Problem (<u>submission_ID</u>, problem_ID!, verdict_ID, status)
    submission_ID → Submission(submission_ID)
    problem_ID → Problem(problem_ID)
    verdict_ID → Verdict(verdict_ID)

Contest_Tem_Problem (<u>contest_ID, problem_ID</u>)
    contest_ID → Contest(contest_ID)
    problem_ID → Problem(problem_ID)

TestCase (<u>problem_ID, testcase_disc</u>)
    problem_ID → Problem(problem_ID)