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DROP DATABASE IF EXISTS Clubhub;
CREATE DATABASE IF NOT EXISTS clubHub;
USE clubHub;

-- PERSON
create table person(
    pid varchar(30),
    passwd char(32),
    fname varchar(50),
    lname varchar(100),
    PRIMARY KEY (pid)
);

-- Advisor
create table advisor(
    pid varchar(30),
    phone char(12),
    PRIMARY KEY (pid),
    FOREIGN KEY (pid) REFERENCES person(pid)
);

-- Student
create table student(
    pid varchar(30),
    gender varchar(10),
    class varchar(20),
    PRIMARY KEY (pid),
    FOREIGN KEY (pid) REFERENCES person(pid)
);

-- Club
create table club(
    clubid integer auto_increment,
    cname varchar(100),
    descr varchar(100),
    PRIMARY KEY (clubid)
);

-- Advisor_of
create table advisor_of(
    pid varchar(30),
    clubid integer,
    PRIMARY KEY (pid,clubid),
    FOREIGN KEY (pid) REFERENCES advisor(pid),
    FOREIGN KEY (clubid) REFERENCES club(clubid)
);

-- Event
create table event(

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        eid integer auto_increment,
        ename varchar(100),
        description varchar(255),
        edatetime datetime,
        location varchar(100),
        is_public_e boolean,
        sponsored_by integer,
        PRIMARY KEY (eid),
        FOREIGN KEY (sponsored_by) REFERENCES club(clubid)
    );

-- Keywords
create table keywords(
    topic varchar(30),
    PRIMARY KEY (topic)
);

-- Interested_in
create table interested_in(
    pid varchar(30),
    topic varchar(100),
    PRIMARY KEY (pid,topic),
    FOREIGN KEY (pid) REFERENCES person(pid),
    FOREIGN KEY (topic) REFERENCES keywords(topic)
);

-- Member_of
create table member_of(
    pid varchar(30),
    clubid integer,
    PRIMARY KEY (pid,clubid),
    FOREIGN KEY (pid) REFERENCES student(pid),
    FOREIGN KEY (clubid) REFERENCES club(clubid)
);

-- multivalued attribute representing role in club
create table role_in(
    pid varchar(30),
    clubid integer,
    role varchar(30),
    PRIMARY KEY (pid,clubid,role),
    FOREIGN KEY (pid,clubid) REFERENCES member_of(pid,clubid)
);

-- Sign_up
create table sign_up(
    pid varchar(30),
    eid integer,
    PRIMARY KEY (pid,eid),

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        FOREIGN KEY (pid) REFERENCES person(pid),
        FOREIGN KEY (eid) REFERENCES event(eid)
);

-- Sponsored_by (only needed if events can be co-sponsored)
-- create table sponsored_by(
--     clubid integer,
--     eid integer,
--     PRIMARY KEY (clubid, eid),
--     FOREIGN KEY (clubid) REFERENCES club(clubid),
--     FOREIGN KEY (eid) REFERENCES event(eid)
-- );

-- Club_topics
create table club_topics(
    clubid integer,
    topic varchar(100),
    PRIMARY KEY (clubid, topic),
    FOREIGN KEY (clubid) REFERENCES club(clubid),
    FOREIGN KEY (topic) REFERENCES keywords(topic)
);

-- Comment
create table comment(
    comment_id integer auto_increment,
    commenter varchar(30),
    ctext varchar(255),
    is_public_c boolean,
    PRIMARY KEY (comment_id),
    FOREIGN KEY (commenter) REFERENCES person(pid)
);

-- Event comment
create table event_comment(
    comment_id integer,
    eid integer,
    PRIMARY KEY (comment_id),
    FOREIGN KEY (comment_id) REFERENCES comment(comment_id),
    FOREIGN KEY (eid) REFERENCES event(eid)
);

-- Club comment
create table club_comment(
    comment_id integer,
    clubid integer,
    PRIMARY KEY (comment_id),
    FOREIGN KEY (comment_id) REFERENCES comment(comment_id),
    FOREIGN KEY (clubid) REFERENCES club(clubid)
);

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