**Databases Project Part 1**

Diagram, engineering drawing

Description automatically generated

* Answers do not have a topic because every answer must be tied to a question. Therefore, the topic of every answer will be the topic of the question being answered.
* The two different tables of keyword were created for answers and questions in order to prevent confusion if a user tries to search a keyword specifically for a question or specifically for an answer.
* It is assumed that a question can be created with no topic selected if it doesn’t belong to any particular category.

Table construction:

CREATE TABLE users (

uid INT NOT NULL auto\_increment primary key,  
 username VARCHAR(20) unique NOT NULL,  
 password VARCHAR(30) NOT NULL,  
 profile VARCHAR(99),  
 status VARCHAR(15) NOT NULL  
 );

CREATE TABLE answers (  
 aid INT NOT NULL primary key,  
 body VARCHAR(99) NOT NULL  
 );

CREATE TABLE questions (  
 qid INT NOT NULL primary key,  
 tid INT references topic(tid),  
 title VARCHAR(20) NOT NULL,  
 body VARCHAR(90)   
 );

CREATE TABLE topic (  
 tid INT NOT NULL primary key,  
 tname VARCHAR(50),  
 hierarchy INT NOT NULL);

CREATE TABLE q\_keyword (  
 qid INT NOT NULL references questions(qid),  
 keyword VARCHAR(45) NOT NULL  
);

CREATE TABLE a\_keyword (  
 aid INT NOT NULL references answers(aid),  
 keyword VARCHAR(45) NOT NULL  
);

CREATE TABLE post\_question (  
 qid INT references questions(qid),  
 uid INT references users(uid),  
 resolved BOOLEAN,  
 timeposted DATETIME NOT NULL  
 );

CREATE TABLE post\_answers (  
 uid INT references users(uid),  
 qid INT references questions(qid),  
 aid INT references answers(aid),  
 grade int not null,  
 weight int not null,  
 best boolean not null,  
 timeposted DATETIME NOT NULL  
 );

INSERT INTO topic (tid, tname, hierarchy) VALUES (1, Computer Science, 1);  
INSERT INTO topic (`tid`, `tname`, `hierarchy`) VALUES ('2', 'Biology', '1');  
INSERT INTO topic (`tid`, `tname`, `hierarchy`) VALUES ('3', 'Mathmatics', '1');  
INSERT INTO topic (`tid`, `tname`, `hierarchy`) VALUES ('4', 'Business', '1');  
INSERT INTO topic (`tid`, `tname`, `hierarchy`) VALUES ('5', 'Off-topic', '3');

INSERT INTO `users` (`uid`, `username`, `password`, `profile`, `status`) VALUES ('1', 'JV4', 'password', 'PLACEHOLDER PROFILE', 'BASIC');  
INSERT INTO `users` (`uid`, `username`, `password`, `profile`, `status`) VALUES ('2', 'Bobby2', 'password1', 'PLACEHOLDER PROFILE', 'BASIC');  
INSERT INTO `users` (`uid`, `username`, `password`, `profile`, `status`) VALUES ('3', 'Mike6', 'password2', 'PLACEHOLDER PROFILE', 'BASIC');  
INSERT INTO `users` (`uid`, `username`, `password`, `profile`, `status`) VALUES ('4', 'Janet1', 'password3', 'PLACEHOLDER PROFILE', 'BASIC');  
INSERT INTO `users` (`uid`, `username`, `password`, `profile`, `status`) VALUES ('5', 'Daryl9', 'password4', 'PLACEHOLDER PROFILE', 'BASIC');

INSERT INTO `questions` (`qid`, `tid`, `title`, `body`) VALUES ('1', '3', 'HOW TO 1+1', 'HELP, HOW DO I COMMIT 1+1');  
INSERT INTO `questions` (`qid`, `tid`, `title`, `body`) VALUES ('2', '4', 'HOW TO PAY TAXES', 'Help, the government is inquiring about my car\'s extended warranty');  
INSERT INTO `questions` (`qid`, `tid`, `title`, `body`) VALUES ('3', '2', 'HOW TO GROW PLANT', 'My crops keep dying when I feed it coca-cola. What am I doing wrong.');  
INSERT INTO `questions` (`qid`, `tid`, `title`, `body`) VALUES ('4', '5', 'HOW TO HACK', 'Hackerman keeps demanding ransom in bittycoin. How do I pay.');  
INSERT INTO `questions` (`qid`, `tid`, `title`, `body`) VALUES ('5', '1', 'HOW DO I FLY', 'I try flapping my arms, but it doesn\'t work.');

INSERT INTO a\_keyword(aid, keyword) VALUES (1, 'Hack');  
INSERT INTO a\_keyword(aid, keyword) VALUES (2, 'FLY');  
INSERT INTO a\_keyword(aid, keyword) VALUES (3, 'PLANT');  
INSERT INTO a\_keyword(aid, keyword) VALUES (4, 'ADDITION');  
INSERT INTO a\_keyword(aid, keyword) VALUES (5, 'TAXES');  
INSERT INTO q\_keyword(qid, keyword) VALUES (1, 'BITCOIN');  
INSERT INTO q\_keyword(qid, keyword) VALUES (2, 'FLY');  
INSERT INTO q\_keyword(qid, keyword) VALUES (3, 'IRS');  
INSERT INTO q\_keyword(qid, keyword) VALUES (4, 'CROPS');  
INSERT INTO q\_keyword(qid, keyword) VALUES (5, 'IRS');

INSERT INTO `answers` (`aid`, `body`) VALUES ('1', 'You send your bitcoins to this address: [PLACEHOLDER]');  
INSERT INTO `answers` (`aid`, `body`) VALUES ('2', '1+1=2');  
INSERT INTO `answers` (`aid`, `body`) VALUES ('3', 'Plants cannot subsist off cola products. Try something that isn\'t lethal.');  
INSERT INTO `answers` (`aid`, `body`) VALUES ('4', 'You cannot fly. We are bipeds, not birds.');  
INSERT INTO `answers` (`aid`, `body`) VALUES ('5', 'That is not the IRS. You are being scammed. Do not respond to them.');

INSERT INTO post\_question (qid, uid, resolved, timeposted)  
VALUES (1, 3, FALSE, '2013-03-12 01:14:56');  
INSERT INTO post\_question (qid, uid, resolved, timeposted)  
VALUES (2, 5, FALSE, '2017-02-07 05:31:30');  
INSERT INTO post\_question (qid, uid, resolved, timeposted)  
VALUES (3, 4, FALSE, '2016-12-12 13:41:17');  
INSERT INTO post\_question (qid, uid, resolved, timeposted)  
VALUES (4, 2, FALSE, '2011-11-30 18:56:23');  
INSERT INTO post\_question (qid, uid, resolved, timeposted)  
VALUES (5, 3, FALSE, '2020-04-22 20:23:59');

INSERT INTO post\_answers(uid, qid, aid, grade, weight, best, timeposted)  
VALUES (1, 1, 4, 0, 1, FALSE, '2013-04-23 16:11:09');  
INSERT INTO post\_answers(uid, qid, aid, grade, weight, best, timeposted)  
VALUES (2, 5, 4, 0, 1, FALSE, '2021-01-17 06:31:23');  
INSERT INTO post\_answers(uid, qid, aid, grade, weight, best, timeposted)  
VALUES (2, 3, 3, 0, 1, FALSE, '2023-12-09 22:59:59');  
INSERT INTO post\_answers(uid, qid, aid, grade, weight, best, timeposted)  
VALUES (5, 1, 4, 0, 1, FALSE, '2019-11-11 23:55:29');