Code Home

A6: Integrity constraints. Indexes, triggers, user functions and database populated with data

This artefact contains the physical schema of the database, the identification and characterization of the indexes, the support of data integrity rules with triggers and the definition of the database user-defined functions. It also contains the database's workload as well as the complete database creation script, including all SQL necessary to define all integrity constraints, indexes and triggers.

1. Database workload

1.1. Estimate of tuples

Relation reference	Relation name	Order of magnitude	Estimated growth
R01	post	thousands	dozens per day
R02	answer	thousands	dozens per day
R03	question	thousands	dozens per day
R04	postVote	thousands	dozens per day
R05	postReport	hundreds	units per day
R06	faqEntry	tens	no growth
R07	user	thousands	units per day
R08	contact	hundreds	units per day
R09	subject	units	no growth
R10	banInfo	thousands	dozens per month
R11	tagQuestion	thousands	dozens per day
R12	tag	hundreds	dozens per day
R13	team	units	units per year
R14	teamMember	tens	units per year
R15	teamToTeamMember	tens	units per year

1.2. Most frequent queries

Query reference	SELECT01
Query description	User Login
Query Frequency	hundreds per day

```sql
SELECT password_token, auth_type

  FROM "User"

  WHERE "User".username = $username;
```

Query reference	SELECT02
Query description	User's Profile
Query Frequency	dozens per day

```sql
SELECT username, email, description, img_path, points

  FROM "User"

  WHERE "user".id = $userId;
```

Query reference	SELECT03
Query description	Search Question
Query Frequency	hundreds per day

```sql
SELECT "User".username, "User".img_path, tittle, content, points,
"Post".isVisible

  FROM "Question" INNER JOIN "Post" ON "Question".postID = "Post".id
INNER JOIN "User" ON "Post".posterID = "User".id

  WHERE ("Question".tittle = LIKE %$searchName% OR content LIKE %$
searchName%) And isVisible = TRUE


ORDER BY points


LIMIT 50;
```

Query reference	SELECT04
Query description	50 Most Recent Questions
Query Frequency	hundreds per day

```sql
SELECT "User".username, "User".img_path, tittle, content, points,
"Post".isVisible

  FROM "Question" INNER JOIN "Post" ON "Question".postID = "Post".id
INNER JOIN "User" ON "Post".posterID = "User".id

  WHERE isVisible = TRUE

ORDER BY "Post".date

LIMIT 50;
```

Query reference	SELECT05
Query description	User's Unsolved Questions
Query Frequency	dozens per day

```sql
SELECT tittle, content, points, "Post".isVisible

  FROM "Question" INNER JOIN "Post" ON "Question".postID = "Post".id
INNER JOIN "User" ON "Post".posterID = "User".id

  WHERE "Question".isClosed = FALSE AND "User".username = $username;

ORDER BY "Post".date, "User".username = $username

LIMIT 50;
```

Query reference	SELECT06
Query description	View User's Questions
Query Frequency	dozens per day

```sql
SELECT "User".username, "User".img_path, tittle, content, points,
"Post".isVisible

  FROM "Question" INNER JOIN "Post" ON "Question".postID = "Post".id
INNER JOIN "User" ON "Post".posterID = "User".id

  WHERE "User".username = $username

ORDER BY "Post".date

LIMIT 50;
```

Query reference	SELECT07
Query description	View Question's Answers
Query Frequency	hundreds per day

```sql
SELECT "User".username, "User".img_path, "Post".content, "Post".points,
"Post".isVisible

  FROM "Post" INNER JOIN "User" ON "Post".posterID = "User".id INNER JOIN
"Answer" ON "Answer".questionID = "Post".id

  WHERE isVisible = TRUE AND "Post".id = $postId

ORDER BY "Post".points

LIMIT 50;
```

Query reference	SELECT08
Query description	Retrieve question tags
Query Frequency	hundreds per day

```sql
SELECT "Tag".name

  FROM "Question" INNER JOIN "TagQuestion" ON "Question".postID =
"TagQuestion". question_id INNER JOIN "Tag" ON "TagQuestion". question_id
= "Tag".id

  WHERE isVisible = TRUE AND "Post".id = $postId;
```

1.3. Most frequent modifications

Query reference	UPDATE01
Query description	Update user information
Query Frequency	hundreds per month

```sql
UPDATE "User" SET email = $email, state = $state, description =

$description, img_path = $img_path,points = $points WHERE id=$id;
```

Query reference	UPDATE02
Query description	Update Post information
Query Frequency	thousands per month

```sql
UPDATE Post SET content = $content, isVisible = $isVisible, points =

$points WHRE id=$id
```

Query reference	UPDATE03
Query description	Update Question information
Query Frequency	thousands per month

```
UPDATE Post SET isClosed = $isClosed,nViews = $nViews, tittle = $tittle

WHRE postID=$postID
```

Query reference	UPDATE04
Query description	Update Answer information
Query Frequency	thousands per month

```
UPDATE Post SET isClosed = $isClosed,nViews = $nViews, tittle = $tittle

WHRE postID=$postID
```

Query reference	UPDATE05
Query description	Add Tag to Question
Query Frequency	thousands per month

```
INSERT INTO TagQuestion VALUES($question_id,$tag_id);
```

Query reference	UPDATE06
Query description	Remove Tag from Question
Query Frequency	thousands per month

```
DELETE FROM TagQuestion WHERE question_id = $question_id AND tag_id =

$tag_id
```

Query reference	UPDATE07
Query description	Change Vote Value
Query Frequency	thousands per month

```
UPDATE PostVote value = $value WHERE postID = $postID AND posterID =

$posterID;
```

Query reference	INSERT01
Query description	Register User
Query Frequency	hundreds per month

```
INSERT INTO "User"

(id, username, type, pass_token, auth_type, email, state, description,
img_path)

VALUES($id, $username, $type, $pass_token,$auth_type, $email, $state,
$description, $img_path);
```

Query reference	INSERT02
Query description	Add Question Transaction
Query Frequency	thousands per month

```
BEGIN;INSERT INTO POST(id,posterID,content) VALUES

($id,$posterID,$content);INSERT INTO Question VALUES ($id,$ittle);COMMIT;
```

Query reference	INSERT03
Query description	Add Answer Transaction
Query Frequency	thousands per month

```
BEGIN;INSERT INTO POST(id,content) VALUES ($id,$content); INSERT INTO

Answer(postID) VALUES ($id);COMMIT;
```

Query reference	DELETE01
Query description	Delete Question from Public View
Query Frequency	hundreds per month

```
UPDATE Post SET isVisible = FALSE WHERE id=$postID;
```

Query reference	DELETE02
Query description	Delete Answer from Public View
Query Frequency	hundreds per month

```
UPDATE Post SET isVisible = FALSE WHERE id=$postID;
```

2. Proposed Indexes

As a note on our decision regarding index type choice we decided to go for GIN indexes over Hash indexes as the PostgreSQL documentation recommends not to use Hash indexes as they present several reliability problems in their current version.

2.1. Performance Indexes

Index reference	IDX01
Related queries	SELECT01
Index relation	User
Index attribute	username
Index type	GIN
Cardinality	Medium
Clustering	No
Justification	The table is large so we can benefit from the speed improvements. Since the match needs to be exact we don't require range query support and as such B+ Trees are not optimal. The type of content is mostly static so it can benefit from GIN indexes. Since emails are being used as a key for login, clustering is not a good idea.
CREATE INDEX username_user ON "User" USING gin(username);	

Index reference	IDX02
Related queries	SELECT02 , SELECT03 , SELECT04
Index relation	User
Index attribute	id
Index type	GIN
Cardinality	Medium
Clustering	YES
Justification	The table is large so we can benefit from the speed improvements. Since the ids are serial and unique we can benefit from clustering. The query has to be fast as it is used to display information about users who post in the post itself. Range query support is not required and the data being looked up is mostly static and as such we can benefit from GIN indexes.

CREATE UNIQUE INDEX user_id ON "User" USING gin(id);

Index reference	IDX03
Related queries	SELECT03,SELECT04,SELECT05
Index relation	Post
Index attribute	id
Index type	GiST
Cardinality	High
Clustering	YES
Justification	The table is medium sized, however it is often looked up and requires almost all the information to be loaded at once. We can benefit from clustering. Ranged query support isn't required and content is dynamic therefore it can benefit from GiST Indexes

CREATE INDEX post_id ON Post USING GIST (id);

Index reference	IDX04
Related queries	SELECT03,SELECT04,SELECT05
Index relation	Question
Index attribute	postID
Index type	GiST
Cardinality	High
Clustering	YES
Justification	Table is medium sized, however it is often looked up and requires almost all the information to be loaded at once. We can benefit from clustering. ranged query support isn't required and content is dynamic therefore it can benefit from GiST Indexes

CREATE UNIQUE INDEX question_id ON Question USING GIST (postId);

Index reference	IDX05
Related queries	SELECT03,SELECT04,SELECT05
Index relation	Answer
Index attribute	postID
Index type	GiST
Cardinality	High
Clustering	YES
Justification	The table is small sized, however it is often looked up and requires almost all the information to be loaded at once. We can benefit from clustering. ranged query support isn't required and content is dynamic therefore it can benefit from GiST Indexes

CREATE UNIQUE INDEX answer_id ON Answer USING GIST (postId);

Index reference	IDX06
Related queries	SELECT08
Index relation	Tag
Index attribute	id
Index type	GIN
Cardinality	Low
Clustering	YES
Justification	Table is small sized, however it is often looked up and requires almost all the information to be loaded at once. We can benefit from clustering. ranged query support isn't required and content is dynamic therefore it can benefit from GiST Indexes

CREATE UNIQUE INDEX tag_id ON Tag USING GIST (id);

Index reference	IDX07
Related queries	SELECT08
Index relation	TagQuestion
Index attribute	question_id
Index type	GiST
Cardinality	Low
Clustering	YES
Justification	Table is small sized, however it is often looked up and requires almost all the information to be loaded at once. We can benefit from clustering. ranged query support isn't required and content is dynamic therefore it can benefit from GiST Indexes

CREATE UNIQUE INDEX tagquestion_questionid ON TagQuestion USING GIST (question_id);

3. Triggers

Trigger reference	TRIGGER01
Trigger description	In order to post an answer, question cannot be closed

```
CREATE FUNCTION post_answer() RETURNS TRIGGER AS

$BODY$

BEGIN

  IF EXISTS (SELECT questionID, postID, isClosed FROM Question WHERE
NEW.questionID = "Question".postID AND "Question".isClosed = TRUE) THEN

    RAISE EXCEPTION 'A closed question cannot be answered to and it's
answers cannot be edited.';

  END IF;

  RETURN NEW;

END

$BODY$

LANGUAGE plpgsql;



CREATE TRIGGER post_answer

  BEFORE INSERT OR UPDATE ON "Answer"

  EXECUTE PROCEDURE loan_item();
```

Trigger reference	TRIGGER02
Trigger description	In order to make a post, user state cannot be BANNED

```
CREATE FUNCTION make_post() RETURNS TRIGGER AS

$BODY$

BEGIN

  IF EXISTS (SELECT state FROM User WHERE NEW.posterID = "User".ID AND
"User".state <> 'ACTIVE') THEN

    RAISE EXCEPTION 'A banned user cannot post neither questions nor
answers.';

  END IF;

  RETURN NEW;

END

$BODY$

LANGUAGE plpgsql;



CREATE TRIGGER make_post

  BEFORE INSERT OR UPDATE ON "Post"

  EXECUTE PROCEDURE make_post();
```

Trigger reference	TRIGGER03
Trigger description	When a vote in a post is made or changed, it's necessary to update the post owner points

```
CREATE FUNCTION update_user_points() RETURNS TRIGGER AS

$BODY$

BEGIN

  IF EXISTS (SELECT "User".id AS usr_id1 FROM User WHERE NEW.posterID =
usr_id1) THEN

  UPDATE "User" AS usr_id2

  SET points = points + NEW.value,

  WHERE usr_id1 = usr_id2;

  END IF;

  RETURN NEW;

END

$BODY$

LANGUAGE plpgsql;


CREATE TRIGGER update_user_points

  AFTER INSERT OR UPDATE ON "PostVote"

  EXECUTE PROCEDURE update_user_points();
```

Trigger reference	TRIGGER04
Trigger description	In order to ban a user must have admin privileges

```
CREATE FUNCTION admin_check_procedure() RETURNS TRIGGER AS

$BODY$

BEGIN

  IF (not((SELECT type FROM User WHERE userID = NEW.adminID)='admin'))
THEN

      RAISE EXCEPTION 'User must be admin to ban';

  END IF;

  RETURN NEW;

END

$BODY$

LANGUAGE plpgsql;



CREATE TRIGGER adminCheckTrigger

    BEFORE INSERT OR UPDATE on BanInfo

    EXECUTE PROCEDURE adminCheckProcedure();
```

4. SQL Code

```sql
CREATE TABLE "User" (
    id              SERIAL CONSTRAINT userPK PRIMARY KEY,
    username        TEXT NOT NULL UNIQUE,
    type            TEXT NOT NULL DEFAULT 'REGULAR',
    pass_token      TEXT NOT NULL,
    auth_type       INTEGER NOT NULL,
    CHECK           (auth_type = 0 OR auth_type = 1),
    email           TEXT NOT NULL UNIQUE,
    state           TEXT NOT NULL DEFAULT 'ACTIVE',
    description     TEXT,
    img_path        TEXT NOT NULL DEFAULT '0.png',
    points          INTEGER NOT NULL DEFAULT 0
);

CREATE TABLE Subject(
    subjectID       SERIAL CONSTRAINT  subjectPK PRIMARY KEY,
    name            TEXT NOT NULL UNIQUE
);

CREATE TABLE Contact(
    id              SERIAL CONSTRAINT contactPK PRIMARY KEY,
    message         TEXT NOT NULL,
    userID          INTEGER NOT NULL REFERENCES "User",
    subjectID       INTEGER NOT NULL REFERENCES Subject
);

CREATE TABLE BanInfo(
    id              SERIAL CONSTRAINT banPK PRIMARY KEY,
    duration        BIGINT,
    description     TEXT NOT NULL,
    isPermanent     BOOLEAN NOT NULL ,
    initDate        TIMESTAMP WITH TIME zone DEFAULT now(),
    endDate         TIMESTAMP WITH TIME zone,
    CHECK           (((endDate IS NOT NULL AND endDate > now()) OR
isPermanent IS TRUE )),
    userID          INTEGER NOT NULL REFERENCES "User",
    adminID         INTEGER NOT NULL REFERENCES "User"
);

CREATE TABLE Tag(
    id              SERIAL CONSTRAINT tagPK PRIMARY KEY,
    name            TEXT NOT NULL UNIQUE
);

CREATE TABLE Post (
    id              SERIAL CONSTRAINT postpk PRIMARY KEY,
    content         text NOT NULL,
    "date"          TIMESTAMP WITH TIME zone DEFAULT now() NOT NULL,
    isVisible       boolean NOT NULL,
    points          INTEGER DEFAULT 0 NOT NULL
);

CREATE TABLE Answer (
    postID          SERIAL REFERENCES Post CONSTRAINT answerpk PRIMARY KEY,
    isCorrect       boolean NOT NULL
);
```

```sql
CREATE TABLE Question  (
      postID      SERIAL REFERENCES Post CONSTRAINT questionpk PRIMARY KEY,
      isClosed    boolean NOT NULL,
      nViews      BIGINT NOT NULL DEFAULT 0,
      CHECK (nViews > 0),
      tittle text NOT NULL
);

CREATE TABLE TagQuestion(
    question_id  SERIAL NOT NULL REFERENCES Question,
    tag_id       SERIAL NOT NULL REFERENCES Tag,
    PRIMARY KEY(question_id, tag_id)
);

CREATE TABLE PostVote (
      postID      SERIAL REFERENCES Post NOT NULL,
      posterID    BIGINT REFERENCES "User" NOT NULL,
      value       INTEGER NOT NULL,
      CHECK (value = 1 OR value = -1),
      PRIMARY KEY(postID, posterID)
);

CREATE TABLE PostReport (
      postID      SERIAL NOT NULL,
      reporterID  BIGINT NOT NULL,
      date        TIMESTAMP WITH TIME zone DEFAULT now() NOT NULL,
      PRIMARY KEY(postID, reporterID)
);

CREATE TABLE FaqEntry (
      id          SERIAL CONSTRAINT postreportpk PRIMARY KEY,
      question    text NOT NULL,
      answer      text NOT NULL
);

CREATE TABLE Team (
  id          SERIAL CONSTRAINT teamPk PRIMARY KEY,
  name        TEXT NOT NULL
);

CREATE TABLE TeamMember (
  id          SERIAL CONSTRAINT teamMemberPK PRIMARY KEY,
  name        TEXT NOT NULL,
  email        TEXT NOT NULL,
  title       TEXT NOT NULL,
  joinDate    TIMESTAMP WITH TIME ZONE DEFAULT now() NOT NULL,
  img_path    TEXT NOT NULL DEFAULT '0.png'
);

CREATE TABLE TeamToTeamMember (
  teamId        SERIAL,
  teamMemberID  SERIAL,
  PRIMARY KEY (teamId,teamMemberID)
);
```

```sql
ALTER TABLE Contact
    ADD CONSTRAINT userID_fk FOREIGN KEY (userID) REFERENCES "User"(id) ON
UPDATE CASCADE;

ALTER TABLE Contact
    ADD CONSTRAINT subjectIDfk FOREIGN KEY (subjectID) REFERENCES
Subject(subjectID) ON UPDATE CASCADE;

ALTER TABLE BanInfo
    ADD CONSTRAINT userIDfk FOREIGN KEY (userID) REFERENCES "User"(id) ON
UPDATE CASCADE;

ALTER TABLE BanInfo
    ADD CONSTRAINT adminIDfk FOREIGN KEY (adminID) REFERENCES "User"(id) ON
UPDATE CASCADE;

ALTER TABLE Answer
    ADD CONSTRAINT postIDfk FOREIGN KEY (postID) REFERENCES Post(id) ON
UPDATE CASCADE;

ALTER TABLE Question
    ADD CONSTRAINT postIDfk FOREIGN KEY (postID) REFERENCES Post(id) ON
UPDATE CASCADE;

ALTER TABLE TagQuestion
    ADD CONSTRAINT question_idFK FOREIGN KEY (question_id) REFERENCES
Question(postID) ON UPDATE CASCADE;

ALTER TABLE TagQuestion
    ADD CONSTRAINT tag_idFK FOREIGN KEY (tag_id) REFERENCES Tag(id) ON UPDATE
CASCADE;

ALTER TABLE PostVote
    ADD CONSTRAINT postIdFk FOREIGN KEY (postID) REFERENCES Post(id) ON
UPDATE CASCADE;

ALTER TABLE ONLY PostVote
    ADD CONSTRAINT postreport_user_fk FOREIGN KEY (posterID) REFERENCES
"User"(id) ON UPDATE CASCADE;

ALTER TABLE ONLY PostReport
    ADD CONSTRAINT postreport_post_fk FOREIGN KEY (postID) REFERENCES
Post(id) ON UPDATE CASCADE;

ALTER TABLE ONLY PostReport
    ADD CONSTRAINT postreport_user_fk FOREIGN KEY (reporterId) REFERENCES
"User"(id) ON UPDATE CASCADE;
ALTER TABLE ONLY TeamToTeamMember
    ADD CONSTRAINT teamtoteamember_teamid_fk FOREIGN KEY (teamID)
REFERENCES Team(id) ON UPDATE CASCADE;

ALTER TABLE ONLY TeamToTeamMember
    ADD    CONSTRAINT   teamtoteamember_teammemberid_fk   FOREIGN   KEY
(teamMemberID) REFERENCES TeamMember(id) ON UPDATE CASCADE;
```

```sql
INSERT INTO "User" (id, username, type, pass_token, auth_type, email, state,
description, img_path, points) VALUES (1, 'Orli Dominguez', 'REGULAR',
'EUB20LRK6WF', '1', 'et@vulputatelacusCras.com', 'INACTIVE', 'et ipsum cursus
vestibulum. Mauris magna. Duis dignissim tempor arcu. Vestibulum ut', 1.png, 787);
INSERT INTO "User" (id, username, type, pass_token, auth_type, email, state,
description, img_path, points) VALUES (2, 'Jackson Washington', 'REGULAR',
'PPT71JNO2ZS', '1', 'egestas@Cumsociis.net', 'ACTIVE', 'euismod urna. Nullam
lobortis quam a felis ullamcorper', 2.png, 329);
INSERT INTO "User" (id, username, type, pass_token, auth_type, email, state,
description, img_path, points) VALUES (3, 'Piper E. Dale', 'ADMIN', 'STA70JVU4OJ',
'0', 'ante.iaculis.nec@enimCurabiturmassa.net', 'ACTIVE', 'mauris erat eget ipsum.
Suspendisse sagittis. Nullam vitae diam. Proin dolor.', 3.png, 281);
INSERT INTO "User" (id, username, type, pass_token, auth_type, email, state,
description, img_path, points) VALUES (4, 'Ruth A. Rodgers', 'REGULAR',
'QRC88GVQ5FC', '0', 'convallis@loremDonec.org', 'BANNED', 'enim diam vel arcu.
Curabitur ut odio vel est tempor bibendum. Donec felis', 4.png, 118);
INSERT INTO "User" (id, username, type, pass_token, auth_type, email, state,
description, img_path, points) VALUES (5, 'Chaim Grimes', 'REGULAR', 'YUV38DJX4MF',
'1', 'sed@arcuVestibulumut.ca', 'BANNED', 'mauris, rhoncus id, mollis nec, cursus
a, ', 5.png, 897);
INSERT INTO "User" (id, username, type, pass_token, auth_type, email, state,
description, img_path, points) VALUES (6, 'Acton V. Deleon', 'REGULAR',
'GTS53IRN6IW', '1', 'luctus@sit.edu', 'BANNED', 'lacinia at, iaculis quis, pede.
Praesent eu dui. Cum sociis natoque', 6.png, 414);
INSERT INTO "User" (id, username, type, pass_token, auth_type, email, state,
description, img_path, points) VALUES (7, 'Miranda Tran', 'REGULAR', 'SCF27ITP4PO',
'1', 'magnis.dis.parturient@Fuscealiquetmagna.org', 'INACTIVE', 'molestie tortor
nibh sit amet orci. Ut sagittis lobortis mauris. Suspendisse', 7.png, 885);
INSERT INTO "User" (id, username, type, pass_token, auth_type, email, state,
description, img_path, points) VALUES (8, 'Ciara Mays', 'REGULAR', 'IHQ00DSP8WP',
'1', 'ipsum@arcuNuncmauris.edu', 'BANNED', 'Integer vitae nibh. Donec est mauris,
rhoncus id, mollis nec, cursus a, enim. Suspendisse aliquet, ', 8.png, 929);
INSERT INTO "User" (id, username, type, pass_token, auth_type, email, state,
description, img_path, points) VALUES (9, 'Courtney Pollard', 'REGULAR',
'HFQ25QLG9PF', '1', 'a.tortor.Nunc@ligulaeu.ca', 'INACTIVE', 'Sed diam lorem,
auctor quis, tristique ac, eleifend vitae, erat. Vivamus nisi.', 9.png, 399);
INSERT INTO "User" (id, username, type, pass_token, auth_type, email, state,
description, img_path, points) VALUES (10, 'Bryar D. Watts', 'REGULAR',
'AOK00QZO8ZA', '1', 'amet@vitaesodalesnisi.org', 'BANNED', 'augue malesuada
malesuada. Integer id magna et ipsum cursus', 10.png, 307);
INSERT INTO "User" (id, username, type, pass_token, auth_type, email, state,
description, img_path, points) VALUES (11, 'Yoko Slater', 'ADMIN', 'ACE62ABA0ZP',
'1', 'tincidunt@eu.ca', 'INACTIVE', 'Duis elementum, dui quis accumsan', 11.png,
94);
INSERT INTO "User" (id, username, type, pass_token, auth_type, email, state,
description, img_path, points) VALUES (12, 'Katell J. Coleman', 'REGULAR',
'PKQ89WPE1RK', '0', 'lorem.luctus@Aliquamerat.edu', 'BANNED', 'Donec tempus, lorem
fringilla ornare placerat, orci lacus vestibulum lorem, sit amet ultricies sem
magna', 12.png, 908);
INSERT INTO "User" (id, username, type, pass_token, auth_type, email, state,
description, img_path, points) VALUES (13, 'Tanner E. Dean', 'REGULAR',
'OOU71RVL4GU', '0', 'ligula.eu@eu.ca', 'ACTIVE', 'pede sagittis augue, eu tempor
erat', 13.png, 919);
INSERT INTO "User" (id, username, type, pass_token, auth_type, email, state,
description, img_path, points) VALUES (14, 'Christopher Tanner', 'REGULAR',
'JAC15KKO4FB', '1', 'lorem.ipsum.sodales@amet.com', 'INACTIVE', 'Integer urna.
Vivamus molestie dapibus ligula. Aliquam', 14.png, 987);
INSERT INTO "User" (id, username, type, pass_token, auth_type, email, state,
description, img_path, points) VALUES (15, 'Kyra Chapman', 'REGULAR',
'WHZ01AZR9VR', '0', 'Maecenas@dictum.com', 'ACTIVE', 'dictum ultricies ligula.
Nullam enim. Sed nulla ante, iaculis nec, eleifend', 15.png, 533);
```

```sql
INSERT INTO "User" (id, username, type, pass_token, auth_type, email, state,
description, img_path, points) VALUES (16, 'Steven Nelson', 'REGULAR',
'BIQ73DKL1BJ', '0', 'augue.malesuada.malesuada@nisiMauris.org', 'ACTIVE', 'Cras
eget nisi dictum augue malesuada malesuada. Integer id magna et ipsum', 16.png,
206);
INSERT INTO "User" (id, username, type, pass_token, auth_type, email, state,
description, img_path, points) VALUES (17, 'Maryam Mason', 'REGULAR',
'FYU36EDI3QV', '0', 'nunc@nonsollicitudin.ca', 'INACTIVE', 'dapibus gravida.
Aliquam tincidunt, nunc ac mattis ornare, ', 17.png, 200);
INSERT INTO "User" (id, username, type, pass_token, auth_type, email, state,
description, img_path, points) VALUES (18, 'Maggy Oneil', 'REGULAR', 'JKB52QPJ0GG',
'1', 'tristique.pharetra.Quisque@ametdapibusid.com', 'BANNED', 'mus. Proin vel
arcu eu odio tristique pharetra. Quisque ac libero nec', 18.png, 281);
INSERT INTO "User" (id, username, type, pass_token, auth_type, email, state,
description, img_path, points) VALUES (19, 'Bryar Stokes', 'REGULAR',
'QLF57BJU1WF', '0', 'arcu@non.org', 'INACTIVE', 'Aenean gravida nunc sed pede. Cum
sociis natoque penatibus et magnis dis parturient', 19.png, 216);
INSERT INTO "User" (id, username, type, pass_token, auth_type, email, state,
description, img_path, points) VALUES (20, 'Jamal I. Mathis', 'REGULAR',
'UXS09API3HS', '0', 'adipiscing.non@magna.net', 'BANNED', 'ut quam vel sapien
imperdiet ornare. In faucibus. Morbi vehicula. Pellentesque tincidunt tempus',
20.png, 333);
INSERT INTO "User" (id, username, type, pass_token, auth_type, email, state,
description, img_path, points) VALUES (21, 'Ursula Vazquez', 'REGULAR',
'LDB48CTF6AC', '1', 'sociis@ametconsectetuer.edu', 'INACTIVE', 'et tristique
pellentesque, tellus sem mollis dui, in', 21.png, 306);
INSERT INTO "User" (id, username, type, pass_token, auth_type, email, state,
description, img_path, points) VALUES (22, 'Yvette Simmons', 'REGULAR',
'KGZ54ZDK4ZY', '0', 'dapibus.quam.quis@inlobortistellus.net', 'ACTIVE', 'felis
purus ac tellus. Suspendisse sed dolor.', 22.png, 456);
INSERT INTO "User" (id, username, type, pass_token, auth_type, email, state,
description, img_path, points) VALUES (23, 'Noelle Reese', 'REGULAR',
'MHL66YCM0MB', '1', 'urna.nec.luctus@In.ca', 'ACTIVE', 'et magnis dis parturient
montes, nascetur ridiculus mus. Donec', 23.png, 195);
INSERT INTO "User" (id, username, type, pass_token, auth_type, email, state,
description, img_path, points) VALUES (24, 'Imelda Gill', 'REGULAR', 'JRU29IMQ3IL',
'1', 'ullamcorper.viverra@justofaucibus.co.uk', 'INACTIVE', 'fames ac turpis
egestas. Fusce aliquet magna a neque. Nullam ut nisi', 24.png, 911);
INSERT INTO "User" (id, username, type, pass_token, auth_type, email, state,
description, img_path, points) VALUES (25, 'Jacqueline Hendrix', 'REGULAR',
'ZKV92SER3TA', '0', 'odio.sagittis.semper@Cras.org', 'INACTIVE', 'fringilla cursus
purus. Nullam scelerisque', 25.png, 955);


INSERT INTO Subject (subjectId, name) VALUES (1, 'Performance');
INSERT INTO Subject (subjectId, name) VALUES (2, 'Reliability');
INSERT INTO Subject (subjectId, name) VALUES (3, 'Offensive language');
INSERT INTO Subject (subjectId, name) VALUES (4, 'My post have been removed');
INSERT INTO Subject (subjectId, name) VALUES (5, 'Forgot password');


INSERT INTO "Contact" (id, message, date, userID, subjectID) VALUES (1, 'non,
lobortis quis, pede. Suspendisse dui.', '1515296655', 20, 1);
INSERT INTO "Contact" (id, message, date, userID, subjectID) VALUES (2, 'neque
venenatis lacus. Etiam bibendum fermentum metus. Aenean sed pede nec',
'1524050828', 39, 3);
INSERT INTO "Contact" (id, message, date, userID, subjectID) VALUES (3, 'lacus.
Quisque imperdiet, erat nonummy ultricies ornare, elit elit fermentum risus, ',
'1514868512', 9, 2);
```

```sql
INSERT INTO "Contact" (id, message, date, userID, subjectID) VALUES (4, 'Nulla aliquet. Proin velit. Sed', '1501730948', 38, 4);
INSERT INTO "Contact" (id, message, date, userID, subjectID) VALUES (5, 'ornare placerat, orci lacus vestibulum lorem, sit amet ultricies sem magna nec quam. Curabitur vel lectus. Cum sociis natoque penatibus et magnis', '1510164481', 17, 5);
INSERT INTO "Contact" (id, message, date, userID, subjectID) VALUES (6, 'lorem ut aliquam iaculis, lacus pede sagittis augue, eu tempor erat', '1507245622', 30, 5);
INSERT INTO "Contact" (id, message, date, userID, subjectID) VALUES (7, 'gravida molestie arcu. Sed eu nibh vulputate', '1502567523', 23, 1);
INSERT INTO "Contact" (id, message, date, userID, subjectID) VALUES (8, 'libero et tristique pellentesque, tellus sem mollis dui, in sodales elit erat vitae risus. Duis a mi fringilla', '1499608029', 28, 3);
INSERT INTO "Contact" (id, message, date, userID, subjectID) VALUES (9, 'Aliquam erat volutpat. Nulla dignissim. Maecenas ornare egestas ligula.', '1536891957', 18, 5);
INSERT INTO "Contact" (id, message, date, userID, subjectID) VALUES (10, 'placerat velit. Quisque varius. Nam porttitor scelerisque neque. Nullam nisl. Maecenas malesuada fringilla est. Mauris eu turpis. Nulla', '1529930396', 20, 3);


INSERT INTO "BanInfo" (id, duration, description, isPermanent, initDate, endDate, userId, adminId) VALUES (1, 51190, 'gravida mauris ut mi. Duis risus odio, auctor vitae, aliquet nec, imperdiet nec, leo. Morbi neque', 'true', '1529780932', '1530460724', '17', '11');
INSERT INTO "BanInfo" (id, duration, description, isPermanent, initDate, endDate, userId, adminId) VALUES (2, 35080, 'In at pede. Cras vulputate velit eu sem. Pellentesque ut ipsum ac mi eleifend egestas. Sed pharetra, felis eget varius', 'false', '1529904666', '1530609979', '8', '3');
INSERT INTO "BanInfo" (id, duration, description, isPermanent, initDate, endDate, userId, adminId) VALUES (3, 23203, 'nunc risus varius orci, in consequat enim diam vel arcu. Curabitur ut', 'false', '1529380198', '1530743239', '5', '11');
INSERT INTO "BanInfo" (id, duration, description, isPermanent, initDate, endDate, userId, adminId) VALUES (4, 36054, 'Etiam imperdiet dictum magna. Ut tincidunt orci quis lectus. Nullam suscipit, est', 'true', '1530118232', '1531170698', '2', '11');
INSERT INTO "BanInfo" (id, duration, description, isPermanent, initDate, endDate, userId, adminId) VALUES (5, 39197, 'posuere at, velit. Cras lorem lorem, luctus ut, pellentesque eget, dictum placerat, augue. Sed molestie.', 'true', '1530424985', '1531708913', '20', '11');
INSERT INTO "BanInfo" (id, duration, description, isPermanent, initDate, endDate, userId, adminId) VALUES (6, 47880, 'ultrices posuere cubilia Curae; Donec tincidunt. Donec vitae erat vel pede blandit', 'false', '1527888967', '1531240271', '7', '3');
INSERT INTO "BanInfo" (id, duration, description, isPermanent, initDate, endDate, userId, adminId) VALUES (7, 44694, 'odio a purus. Duis elementum, dui quis accumsan convallis, ante lectus convallis est, vitae sodales nisi magna sed', 'false', '1529668142', '1531284041', '20', '11');
INSERT INTO "BanInfo" (id, duration, description, isPermanent, initDate, endDate, userId, adminId) VALUES (8, 54219, 'vulputate, posuere vulputate, lacus. Cras interdum. Nunc sollicitudin commodo ipsum. Suspendisse non leo.', 'true', '1530157130', '1531621584', '6', '11');
INSERT INTO "BanInfo" (id, duration, description, isPermanent, initDate, endDate, userId, adminId) VALUES (9, 50423, 'erat. Sed nunc est, mollis non, cursus non, egestas a, dui. Cras pellentesque. Sed dictum. Proin eget odio. Aliquam', 'true', '1530020219', '1530811212', '1', '3');
INSERT INTO "BanInfo" (id, duration, description, isPermanent, initDate, endDate, userId, adminId) VALUES (10, 32023, 'et, lacinia vitae, sodales at, velit. Pellentesque ultricies dignissim lacus. Aliquam rutrum', 'true', '1528764316', '1530608276', '1', '3');
```

```sql
INSERT INTO Tag (id, name) VALUES (1, 'figds');
INSERT INTO Tag (id, name) VALUES (2, 'finqm');
INSERT INTO Tag (id, name) VALUES (3, 'xztxi');
INSERT INTO Tag (id, name) VALUES (4, 'uglqg');
INSERT INTO Tag (id, name) VALUES (5, 'axkse');
INSERT INTO Tag (id, name) VALUES (6, 'rgxol');
INSERT INTO Tag (id, name) VALUES (7, 'tsyie');
INSERT INTO Tag (id, name) VALUES (8, 'jxayz');
INSERT INTO Tag (id, name) VALUES (9, 'fuzki');
INSERT INTO Tag (id, name) VALUES (10, 'fdvwk');


INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (1,
'4', 'Donec dignissim magna a tortor. Nunc commodo auctor velit. Aliquam nisl.
Nulla eu neque pellentesque massa lobortis ultrices. Vivamus rhoncus. Donec est.
Nunc ullamcorper, ', '1529689764', 'true', 1);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (2,
'4', 'at arcu. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices
posuere cubilia Curae; Donec tincidunt. Donec vitae erat', '1514170271', 'false',
3);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (3,
'8', 'sem egestas blandit. Nam nulla magna, malesuada vel, convallis in, cursus
et, eros. Proin ultrices.', '1552053535', 'false', 1);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (4,
'7', 'Suspendisse dui. Fusce diam nunc, ullamcorper eu, euismod ac, fermentum
vel, mauris. Integer sem elit, pharetra ut, pharetra sed, hendrerit a, ',
'1506114724', 'true', 1);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (5,
'16', 'id magna et ipsum cursus vestibulum. Mauris magna. Duis dignissim tempor
arcu. Vestibulum ut eros non enim commodo', '1541433984', 'true', 1);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (6,
'13', 'risus. Morbi metus. Vivamus euismod urna. Nullam lobortis quam a felis
ullamcorper viverra. Maecenas iaculis aliquet diam.', '1506570766', 'false', 1);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (7,
'3', 'a, enim. Suspendisse aliquet, sem ut cursus luctus, ipsum leo elementum
sem, vitae aliquam eros turpis non enim. Mauris quis turpis', '1546696133',
'false', 1);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (8,
'18', 'justo. Proin non massa non ante bibendum ullamcorper. Duis cursus, diam at
pretium aliquet, metus urna convallis erat, ', '1514623898', 'false', 1);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (9,
'11', 'dolor dolor, tempus non, lacinia at, iaculis quis, pede. Praesent eu dui.
Cum sociis natoque penatibus et magnis dis parturient', '1542089449', 'false',
3);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (10,
'12', 'dictum eu, eleifend nec, malesuada ut, sem. Nulla interdum. Curabitur
dictum. Phasellus in felis. Nulla tempor augue ac ipsum. Phasellus',
'1527305293', 'true', 2);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (11,
'10', 'Duis risus odio, auctor vitae, aliquet nec, imperdiet nec, leo. Morbi
neque tellus, imperdiet non, vestibulum nec, euismod in, dolor. Fusce feugiat.
Lorem', '1506453612', 'false', 2);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (12,
'20', 'auctor non, feugiat nec, diam. Duis mi enim, condimentum eget, volutpat
ornare, facilisis eget, ipsum. Donec sollicitudin adipiscing ligula. Aenean',
'1513090527', 'false', 2);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (13,
'5', 'auctor velit. Aliquam nisl. Nulla eu neque pellentesque massa lobortis
ultrices. Vivamus rhoncus. Donec est. Nunc ullamcorper, ', '1533970749', 'true',
3);
```

```sql
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (14,
'19', 'Curae; Donec tincidunt. Donec vitae erat vel pede blandit congue. In
scelerisque scelerisque dui. Suspendisse ac metus vitae velit egestas lacinia.',
'1533053701', 'false', 1);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (15,
'14', 'Integer tincidunt aliquam arcu. Aliquam ultrices iaculis odio. Nam
interdum enim non nisi. Aenean eget metus.', '1511358281', 'false', 2);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (16,
'2', 'eget mollis lectus pede et risus. Quisque libero lacus, varius et, euismod
et, commodo at, libero. Morbi accumsan laoreet ipsum. Curabitur consequat, lectus
sit', '1545180642', 'false', 2);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (17,
'4', 'cursus vestibulum. Mauris magna. Duis dignissim tempor arcu. Vestibulum ut
eros non enim commodo hendrerit. Donec porttitor tellus non magna. Nam ligula
elit, pretium', '1504375218', 'true', 1);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (18,
'7', 'eget nisi dictum augue malesuada malesuada. Integer id magna et ipsum
cursus vestibulum. Mauris magna. Duis dignissim', '1500829395', 'false', 2);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (19,
'1', 'arcu. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices
posuere cubilia Curae; Donec tincidunt. Donec vitae erat', '1493782069', 'true',
1);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (20,
'5', 'enim consequat purus. Maecenas libero est, congue a, aliquet vel, vulputate
eu, ', '1540931545', 'false', 2);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (21,
'5', 'nulla. Integer urna. Vivamus molestie dapibus ligula. Aliquam erat volutpat.
Nulla dignissim. Maecenas ornare egestas ligula. Nullam feugiat placerat velit.
Quisque', '1542568770', 'true', 1);

INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (22,
'16', 'lacinia mattis. Integer eu lacus. Quisque imperdiet, erat nonummy
ultricies ornare, elit elit fermentum risus, at', '1532342509', 'true', 2);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (23,
'4', 'ut dolor dapibus gravida. Aliquam tincidunt, nunc ac mattis ornare, lectus
ante dictum mi, ac mattis velit justo', '1506936997', 'true', 2);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (24,
'15', 'Cum sociis natoque penatibus et magnis dis parturient montes, nascetur
ridiculus mus. Proin vel arcu eu odio', '1492779701', 'true', 1);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (25,
'12', 'aliquet, sem ut cursus luctus, ipsum leo elementum sem, vitae aliquam eros
turpis non enim. Mauris quis', '1550198174', 'false', 2);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (26,
'3', 'auctor, velit eget laoreet posuere, enim nisl elementum purus, accumsan
interdum', '1516347710', 'false', 3);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (27,
'18', 'bibendum sed, est. Nunc laoreet lectus quis massa. Mauris vestibulum,
neque sed dictum eleifend, nunc risus varius orci, in consequat', '1531386844',
'false', 3);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (28,
'17', 'scelerisque scelerisque dui. Suspendisse ac metus vitae velit egestas
lacinia. Sed', '1542227825', 'false', 1);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (29,
'11', 'ullamcorper. Duis at lacus. Quisque purus sapien, gravida non,
sollicitudin a, malesuada id, erat. Etiam vestibulum', '1515226268', 'false', 2);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (30,
'16', 'lacus. Quisque imperdiet, erat nonummy ultricies ornare, elit elit
fermentum risus, at fringilla purus mauris a nunc. In at pede. Cras vulputate',
'1531958361', 'true', 3);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (31,
'8', 'orci. Ut semper pretium neque. Morbi quis urna. Nunc quis arcu vel quam
dignissim', '1493206799', 'false', 3);
```

```sql
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (32,
'13', 'risus. Nulla eget metus eu erat semper rutrum. Fusce dolor quam, elementum
at, egestas a, scelerisque sed, sapien. Nunc pulvinar arcu et pede. Nunc',
'1538039315', 'true', 1);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (33,
'16', 'Vivamus molestie dapibus ligula. Aliquam erat volutpat. Nulla dignissim.
Maecenas', '1501088591', 'true', 3);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (34,
'2', 'mauris elit, dictum eu, eleifend nec, malesuada ut, sem. Nulla interdum.
Curabitur dictum. Phasellus in felis. Nulla tempor augue ac ipsum. Phasellus
vitae', '1518936565', 'false', 1);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (35,
'9', 'nascetur ridiculus mus. Aenean eget magna. Suspendisse tristique neque
venenatis lacus. Etiam bibendum fermentum metus. Aenean sed', '1506030929',
'false', 1);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (36,
'12', 'Mauris quis turpis vitae purus gravida sagittis. Duis gravida. Praesent eu
nulla at sem', '1518587127', 'true', 3);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (37,
'6', 'ipsum. Curabitur consequat, lectus sit amet luctus vulputate, nisi sem
semper erat, in consectetuer', '1491573205', 'false', 2);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (38,
'5', 'sagittis semper. Nam tempor diam dictum sapien. Aenean massa. Integer vitae
nibh. Donec est mauris, rhoncus id, mollis', '1513331822', 'false', 2);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (39,
'20', 'malesuada fames ac turpis egestas. Fusce aliquet magna a neque. Nullam
ut', '1508687592', 'true', 3);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (40,
'20', 'Praesent eu dui. Cum sociis natoque penatibus et magnis dis',
'1542750698', 'false', 2);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (41,
'17', 'mus. Aenean eget magna. Suspendisse tristique neque venenatis lacus. Etiam
bibendum fermentum metus. Aenean sed pede nec', '1523058855', 'true', 2);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (42,
'13', 'Donec fringilla. Donec feugiat metus sit amet ante. Vivamus non',
'1509493241', 'true', 3);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (43,
'18', 'purus, in molestie tortor nibh sit amet orci. Ut sagittis lobortis mauris.
Suspendisse aliquet molestie tellus. Aenean egestas hendrerit neque. In ornare
sagittis', '1535051584', 'false', 3);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (44,
'10', 'enim. Etiam imperdiet dictum magna. Ut tincidunt orci quis lectus. Nullam
suscipit, ', '1531531062', 'false', 1);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (45,
'13', 'ipsum non arcu. Vivamus sit amet risus. Donec egestas. Aliquam nec enim.
Nunc ut erat. Sed nunc', '1508613392', 'false', 2);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (46,
'20', 'montes, nascetur ridiculus mus. Aenean eget magna. Suspendisse tristique
neque venenatis lacus. Etiam bibendum fermentum metus. Aenean sed pede nec ante
blandit viverra. Donec tempus, ', '1534662053', 'false', 1);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (47,
'11', 'nec, mollis vitae, posuere at, velit. Cras lorem lorem, luctus ut,
pellentesque eget, dictum placerat, augue. Sed molestie. Sed id risus',
'1492559400', 'false', 3);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (48,
'5', 'ligula. Nullam feugiat placerat velit. Quisque varius. Nam porttitor
scelerisque neque. Nullam nisl. Maecenas malesuada fringilla est. Mauris eu',
'1543761038', 'true', 3);
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (49,
'5', 'libero. Proin sed turpis nec mauris blandit mattis. Cras eget nisi dictum
augue malesuada malesuada. Integer id magna et ipsum cursus vestibulum. Mauris',
'1536067481', 'false', 3);
```

```sql
INSERT INTO "Post" (id, posterId, content, date, isVisible, points) VALUES (50,
'7', 'sem egestas blandit. Nam nulla magna, malesuada vel, convallis in, cursus
et, eros. Proin ultrices.', '1534721675', 'true', 3);


INSERT INTO "Answer" (postId, questionId, isCorrect) VALUES (1, 46, 'false');
INSERT INTO "Answer" (postId, questionId, isCorrect) VALUES (2, 42, 'false');
INSERT INTO "Answer" (postId, questionId, isCorrect) VALUES (3, 38, 'true');
INSERT INTO "Answer" (postId, questionId, isCorrect) VALUES (4, 32, 'false');
INSERT INTO "Answer" (postId, questionId, isCorrect) VALUES (5, 35, 'true');
INSERT INTO "Answer" (postId, questionId, isCorrect) VALUES (6, 49, 'false');
INSERT INTO "Answer" (postId, questionId, isCorrect) VALUES (7, 45, 'true');
INSERT INTO "Answer" (postId, questionId, isCorrect) VALUES (8, 39, 'false');
INSERT INTO "Answer" (postId, questionId, isCorrect) VALUES (9, 32, 'false');
INSERT INTO "Answer" (postId, questionId, isCorrect) VALUES (10, 45, 'true');
INSERT INTO "Answer" (postId, questionId, isCorrect) VALUES (11, 35, 'false');
INSERT INTO "Answer" (postId, questionId, isCorrect) VALUES (12, 47, 'true');
INSERT INTO "Answer" (postId, questionId, isCorrect) VALUES (13, 44, 'false');
INSERT INTO "Answer" (postId, questionId, isCorrect) VALUES (14, 46, 'true');
INSERT INTO "Answer" (postId, questionId, isCorrect) VALUES (15, 47, 'false');
INSERT INTO "Answer" (postId, questionId, isCorrect) VALUES (16, 34, 'false');
INSERT INTO "Answer" (postId, questionId, isCorrect) VALUES (17, 45, 'false');
INSERT INTO "Answer" (postId, questionId, isCorrect) VALUES (18, 47, 'true');
INSERT INTO "Answer" (postId, questionId, isCorrect) VALUES (19, 40, 'false');
INSERT INTO "Answer" (postId, questionId, isCorrect) VALUES (20, 45, 'true');
INSERT INTO "Answer" (postId, questionId, isCorrect) VALUES (21, 49, 'true');
INSERT INTO "Answer" (postId, questionId, isCorrect) VALUES (22, 39, 'true');
INSERT INTO "Answer" (postId, questionId, isCorrect) VALUES (23, 47, 'false');
INSERT INTO "Answer" (postId, questionId, isCorrect) VALUES (24, 36, 'false');
INSERT INTO "Answer" (postId, questionId, isCorrect) VALUES (25, 50, 'true');
INSERT INTO "Answer" (postId, questionId, isCorrect) VALUES (26, 35, 'true');
INSERT INTO "Answer" (postId, questionId, isCorrect) VALUES (27, 35, 'true');
INSERT INTO "Answer" (postId, questionId, isCorrect) VALUES (28, 45, 'false');
INSERT INTO "Answer" (postId, questionId, isCorrect) VALUES (29, 37, 'true');
INSERT INTO "Answer" (postId, questionId, isCorrect) VALUES (30, 44, 'false');


INSERT INTO "Question" (postId, isClosed, nViews, title) VALUES (31, 'true', 18,
'velit. Pellentesque ultricies');
INSERT INTO "Question" (postId, isClosed, nViews, title) VALUES (32, 'true', 15,
'diam. Sed');
INSERT INTO "Question" (postId, isClosed, nViews, title) VALUES (33, 'true', 20,
'nulla. Integer');
INSERT INTO "Question" (postId, isClosed, nViews, title) VALUES (34, 'false', 19,
'cursus in, hendrerit');
INSERT INTO "Question" (postId, isClosed, nViews, title) VALUES (35, 'false', 12,
'fermentum risus, at');
INSERT INTO "Question" (postId, isClosed, nViews, title) VALUES (36, 'true', 17,
'semper et, lacinia');
INSERT INTO "Question" (postId, isClosed, nViews, title) VALUES (37, 'true', 20,
'rhoncus id, ');
INSERT INTO "Question" (postId, isClosed, nViews, title) VALUES (38, 'false', 6,
'orci. Ut semper');
INSERT INTO "Question" (postId, isClosed, nViews, title) VALUES (39, 'true', 3,
'lobortis');
INSERT INTO "Question" (postId, isClosed, nViews, title) VALUES (40, 'false', 4,
'volutpat.');
```

```sql
INSERT INTO "Question" (postId, isClosed, nViews, title) VALUES (41, 'true', 10,
'molestie tellus.');
INSERT INTO "Question" (postId, isClosed, nViews, title) VALUES (42, 'true', 9,
'egestas.');
INSERT INTO "Question" (postId, isClosed, nViews, title) VALUES (43, 'true', 19,
'sociis');
INSERT INTO "Question" (postId, isClosed, nViews, title) VALUES (44, 'true', 7,
'quis diam luctus');
INSERT INTO "Question" (postId, isClosed, nViews, title) VALUES (45, 'false', 11,
'aliquet odio.');
INSERT INTO "Question" (postId, isClosed, nViews, title) VALUES (46, 'false', 19,
'euismod et, ');
INSERT INTO "Question" (postId, isClosed, nViews, title) VALUES (47, 'true', 15,
'montes, nascetur');
INSERT INTO "Question" (postId, isClosed, nViews, title) VALUES (48, 'true', 9,
'Duis a');
INSERT INTO "Question" (postId, isClosed, nViews, title) VALUES (49, 'true', 19,
'orci, in');
INSERT INTO "Question" (postId, isClosed, nViews, title) VALUES (50, 'true', 4,
'Nam');


INSERT INTO "TagQuestion" (question_id, tag_id) VALUES (31, 8);
INSERT INTO "TagQuestion" (question_id, tag_id) VALUES (32, 2);
INSERT INTO "TagQuestion" (question_id, tag_id) VALUES (33, 8);
INSERT INTO "TagQuestion" (question_id, tag_id) VALUES (34, 1);
INSERT INTO "TagQuestion" (question_id, tag_id) VALUES (35, 10);
INSERT INTO "TagQuestion" (question_id, tag_id) VALUES (36, 6);
INSERT INTO "TagQuestion" (question_id, tag_id) VALUES (37, 5);
INSERT INTO "TagQuestion" (question_id, tag_id) VALUES (38, 2);
INSERT INTO "TagQuestion" (question_id, tag_id) VALUES (39, 6);
INSERT INTO "TagQuestion" (question_id, tag_id) VALUES (40, 6);
INSERT INTO "TagQuestion" (question_id, tag_id) VALUES (41, 5);
INSERT INTO "TagQuestion" (question_id, tag_id) VALUES (42, 5);
INSERT INTO "TagQuestion" (question_id, tag_id) VALUES (43, 6);
INSERT INTO "TagQuestion" (question_id, tag_id) VALUES (44, 10);
INSERT INTO "TagQuestion" (question_id, tag_id) VALUES (45, 10);
INSERT INTO "TagQuestion" (question_id, tag_id) VALUES (46, 2);
INSERT INTO "TagQuestion" (question_id, tag_id) VALUES (47, 7);
INSERT INTO "TagQuestion" (question_id, tag_id) VALUES (48, 4);
INSERT INTO "TagQuestion" (question_id, tag_id) VALUES (49, 8);
INSERT INTO "TagQuestion" (question_id, tag_id) VALUES (50, 10);


INSERT INTO "PostVote" (postId, posterId, value) VALUES (12, 1, '-1');
INSERT INTO "PostVote" (postId, posterId, value) VALUES (22, 22, '1');
INSERT INTO "PostVote" (postId, posterId, value) VALUES (27, 19, '1');
INSERT INTO "PostVote" (postId, posterId, value) VALUES (16, 20, '1');
INSERT INTO "PostVote" (postId, posterId, value) VALUES (31, 4, '1');
INSERT INTO "PostVote" (postId, posterId, value) VALUES (12, 16, '-1');
INSERT INTO "PostVote" (postId, posterId, value) VALUES (14, 17, '-1');
INSERT INTO "PostVote" (postId, posterId, value) VALUES (7, 23, '-1');
INSERT INTO "PostVote" (postId, posterId, value) VALUES (43, 10, '1');
INSERT INTO "PostVote" (postId, posterId, value) VALUES (50, 7, '1');
INSERT INTO "PostVote" (postId, posterId, value) VALUES (30, 21, '-1');
INSERT INTO "PostVote" (postId, posterId, value) VALUES (20, 24, '1');
INSERT INTO "PostVote" (postId, posterId, value) VALUES (4, 12, '1');
INSERT INTO "PostVote" (postId, posterId, value) VALUES (18, 13, '1');
```

```sql
INSERT INTO "PostVote" (postId, posterId, value) VALUES (29, 24, '-1');
INSERT INTO "PostVote" (postId, posterId, value) VALUES (46, 23, '1');
INSERT INTO "PostVote" (postId, posterId, value) VALUES (50, 5, '-1');
INSERT INTO "PostVote" (postId, posterId, value) VALUES (20, 15, '1');
INSERT INTO "PostVote" (postId, posterId, value) VALUES (26, 7, '-1');
INSERT INTO "PostVote" (postId, posterId, value) VALUES (47, 19, '1');
INSERT INTO "PostVote" (postId, posterId, value) VALUES (40, 15, '1');
INSERT INTO "PostVote" (postId, posterId, value) VALUES (49, 21, '-1');
INSERT INTO "PostVote" (postId, posterId, value) VALUES (42, 8, '-1');
INSERT INTO "PostVote" (postId, posterId, value) VALUES (4, 22, '-1');
INSERT INTO "PostVote" (postId, posterId, value) VALUES (34, 2, '1');
INSERT INTO "PostVote" (postId, posterId, value) VALUES (28, 6, '1');
INSERT INTO "PostVote" (postId, posterId, value) VALUES (31, 24, '-1');
INSERT INTO "PostVote" (postId, posterId, value) VALUES (44, 19, '-1');
INSERT INTO "PostVote" (postId, posterId, value) VALUES (38, 1, '-1');
INSERT INTO "PostVote" (postId, posterId, value) VALUES (46, 6, '-1');
INSERT INTO "PostVote" (postId, posterId, value) VALUES (8, 12, '-1');


INSERT INTO "PostReport" (postId, reporterId, date) VALUES (16, '11',
'1548566104');
INSERT INTO "PostReport" (postId, reporterId, date) VALUES (12, '3',
'1530298354');
INSERT INTO "PostReport" (postId, reporterId, date) VALUES (3, '11',
'1501972940');
INSERT INTO "PostReport" (postId, reporterId, date) VALUES (13, '3',
'1539129530');
INSERT INTO "PostReport" (postId, reporterId, date) VALUES (22, '3',
'1497615906');
INSERT INTO "PostReport" (postId, reporterId, date) VALUES (11, '3',
'1499043320');
INSERT INTO "PostReport" (postId, reporterId, date) VALUES (41, '3',
'1531923082');
INSERT INTO "PostReport" (postId, reporterId, date) VALUES (21, '11',
'1532722445');
INSERT INTO "PostReport" (postId, reporterId, date) VALUES (28, '3',
'1533531663');
INSERT INTO "PostReport" (postId, reporterId, date) VALUES (14, '11',
'1539100945');
INSERT INTO "PostReport" (postId, reporterId, date) VALUES (6, '3',
'1532826116');
INSERT INTO "PostReport" (postId, reporterId, date) VALUES (10, '3',
'1514026215');
INSERT INTO "PostReport" (postId, reporterId, date) VALUES (38, '11',
'1539883798');
INSERT INTO "PostReport" (postId, reporterId, date) VALUES (5, '11',
'1510428357');
INSERT INTO "PostReport" (postId, reporterId, date) VALUES (27, '3', '1506376607');


INSERT INTO FaqEntry (id, question, answer) VALUES (1, 'Is account registration
required?', 'Account registration at Code Home is only required if you want to
post or responde to questions.');
INSERT INTO FaqEntry (id, question, answer) VALUES (2, 'How to avoid being banned?',
'Respect other users. Respond only when you have knowldge about the theme. Bump is
only allowed after 48 hours with no response');
```

```sql
INSERT INTO Team (id, name) VALUES (1, 'Design');
INSERT INTO Team (id, name) VALUES (2, 'Quality Assurance');
INSERT INTO Team (id, name) VALUES (3, 'Engineering');
INSERT INTO Team (id, name) VALUES (4, 'Sales/Business');


INSERT INTO "TeamMember" (id, name, email, title, joinDate, img_path) VALUES (1,
'Sophia West', 'nunc.sed@libero.org', 'Tester', '1496411884', 1.png);
INSERT INTO "TeamMember" (id, name, email, title, joinDate, img_path) VALUES (2,
'Eric Greene', 'blandit.Nam@justosit.edu', ' Markter', '1537224774', 2.png);
INSERT INTO "TeamMember" (id, name, email, title, joinDate, img_path) VALUES (3,
'Derek Doyle', 'ornare.Fusce@anteblandit.ca', 'Engineer', '1512984340', 3.png);
INSERT INTO "TeamMember" (id, name, email, title, joinDate, img_path) VALUES (4,
'Griffin Mcneil', 'nec.quam.Curabitur@ascelerisque.com', 'Designer',
'1504663278', 4.png);
INSERT INTO "TeamMember" (id, name, email, title, joinDate, img_path) VALUES (5,
'Pascale  Simpson',  'nibh.enim.gravida@neccursus.net',  'Tester',  '1529834762',
5.png);


INSERT INTO "TeamToTeamMember" (teamID, teamMemberId) VALUES (3, 5);
INSERT INTO "TeamToTeamMember" (teamID, teamMemberId) VALUES (2, 1);
INSERT INTO "TeamToTeamMember" (teamID, teamMemberId) VALUES (3, 3);
INSERT INTO "TeamToTeamMember" (teamID, teamMemberId) VALUES (4, 2);
INSERT INTO "TeamToTeamMember" (teamID, teamMemberId) VALUES (1, 4);
```

Group

- Davide Henrique Fernandes da Costa, up201503995@fe.up.pt
- Dinis Filipe da Silva Trigo, up201504196@fe.up.pt
- Diogo Afonso Duarte Reis, up201505472@fe.up.pt
- Tiago José Sousa Magalhães, up201607931@fe.up.pt