**A6: Indexes, triggers, user functions**

**and population**

**1. Database workload**

A study of the predicted system load (database load), organized in subsections.

**1.1 Tuple Estimation**

|  |  |  |  |
| --- | --- | --- | --- |
| **Relation Reference** | **Relation Name** | **Order of magnitude** | **Estimated growth** |
| R01 | user | tens | units per day |
| R02 | event | tens | units per day |
| R03 | localization | tens | units per day |
| R04 | image | tens | units per day |
| R05 | city | tens | units per day |
| R06 | country | tens | units per day |
| R07 | post | hundreds | dozens per day |
| R08 | poll | tens | units per day |
| R09 | option | tens | units per day |
| R10 | friendRequest | hundreds | dozens per day |
| R11 | friendActivity | hundreds | dozens per day |
| R12 | eventInvite | hundreds | dozens per day |
| R13 | owner | tens | units per day |
| R14 | participant | tens | units per day |
| R15 | done | tens | units per day |
| R16 | notDone | tens | units per day |
| R17 | admin | units | no growth |
| R18 | friendship | tens | units per day |
| R19 | eventWarning | tens | tens per day |
| R20 | currentDate | units | hundreds per day |
| R21 | rating | tens | units per day |

**1.2 Most frequent queries**

|  |  |
| --- | --- |
| **Querie reference** | **SELECT01** |
| **Querie description** | **User’s information** |
| **Querie frequency** | **Hundreds per day** |
| SELECT username, last\_name, first\_name, email, image\_path, city\_id  FROM users  WHERE users.id = $user\_id; | |

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| --- | --- |
| **Querie reference** | **SELECT02** |
| **Querie description** | **Event’s information** |
| **Querie frequency** | **Hundreds per day** |
| SELECT events.id, events.name, events.category, events.image\_id, events.description, events."date" users.username  FROM events, users  WHERE events.owner\_id = users.id AND events.id = $event\_id;    SELECT posts.description, posts.id, posts.image\_id, posts.user\_id  FROM posts,events  WHERE posts.event\_id = $event\_id;    SELECT users.username, users.image\_path  FROM participants  WHERE users.id = participants.user\_id AND participants.event\_id=$event\_id; | |

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| --- | --- |
| **Querie reference** | **SELECT03** |
| **Querie description** | **Search event** |
| **Querie frequency** | **Hundreds per day** |
| SELECT id, "name", image\_id, "date", localization, category  FROM events  WHERE "name" LIKE %$search% OR localization LIKE %$search% AND event\_type = 'public'  ORDER BY "name"; | |

|  |  |
| --- | --- |
| **Querie reference** | **SELECT04** |
| **Querie description** | **Search user** |
| **Querie frequency** | **Hundreds per day** |
| SELECT id, username, image\_path  FROM users  WHERE username LIKE %$search%  ORDER BY username; | |

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| --- | --- |
| **Querie reference** | **SELECT05** |
| **Querie description** | **Search by categories** |
| **Querie frequency** | **Hundreds per day** |
| SELECT id, "name", image\_id, "date", localization, category  FROM events  WHERE "name" LIKE %$search% OR localization LIKE %$search% AND event\_type = 'public' AND events.category LIKE %$categories%  ORDER BY "name"; | |

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| --- | --- |
| **Querie reference** | **SELECT06** |
| **Querie description** | **User’s notifications** |
| **Querie frequency** | **Hundreds per day** |
| SELECT sender\_id  FROM friend\_requests  WHERE receiver\_id = $user\_id;  SELECT sender\_id, event\_id  FROM friend\_activities  WHERE receiver\_id = $user\_id;  SELECT owner\_id, event\_id  FROM event\_invites  WHERE receiver\_id = $user\_id;  SELECT event\_id, "message"  FROM event\_warnings  WHERE receiver\_id = $user\_id; | |

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| --- | --- |
| **Querie reference** | **SELECT07** |
| **Querie description** | **Owner of a specific event** |
| **Querie frequency** | **Hundreds per day** |
| SELECT event\_id  FROM owners  WHERE user\_id = $user\_id; | |

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| **Querie reference** | **SELECT08** |
| **Querie description** | **User’s events** |
| **Querie frequency** | **Hundreds per day** |
| SELECT event\_id  FROM participants  WHERE user\_id = $user\_id; | |

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| --- | --- |
| **Querie reference** | **SELECT09** |
| **Querie description** | **User’s friends** |
| **Querie frequency** | **Hundreds per day** |
| SELECT user\_id\_1, user\_id\_2  FROM friendships  WHERE user\_id\_1 = $user\_id OR user\_id\_2 = $user\_id; | |

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| --- | --- |
| **Querie reference** | **SELECT010** |
| **Querie description** | **Who can be invited to an event** |
| **Querie frequency** | **Hundreds per day** |
| SELECT users.username  FROM users, events  WHERE users.id!= event.owner\_id AND users.id NOT IN (  SELECT user\_id  FROM participants  WHERE user\_id IS NOT NULL AND participants.event\_id=$event\_id) ; | |

|  |  |
| --- | --- |
| **Querie reference** | **SELECT11** |
| **Querie description** | **Rating of a past event** |
| **Querie frequency** | **Hundreds per day** |
| SELECT AVG(rating)  FROM dones  WHERE dones.event\_id= $event\_id; | |

**1.3 Most frequent modifications**

|  |  |
| --- | --- |
| **Querie reference** | **UPDATE01** |
| **Querie description** | **Update users information** |
| **Querie frequency** | **Hundreds per month** |
| UPDATE "users"  SET password = $password,  email = $email,  first\_name = $first\_name,  last\_name = $last\_name,  image\_path = $image\_path,  city\_id = $city\_id  WHERE id = $id; | |

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| --- | --- |
| **Querie reference** | **UPDATE02** |
| **Querie description** | **Update events information** |
| **Querie frequency** | **Hundreds per month** |
| UPDATE events  SET name = $name,  date = $date,  description = $description,  localization\_id = $localization\_id,  image\_id = $image\_id,  event\_type = $event\_type,  category = $category  WHERE id = $id; | |

|  |  |
| --- | --- |
| **Querie reference** | **UPDATE03** |
| **Querie description** | **Update dones rating** |
| **Querie frequency** | **Tens per month** |
| UPDATE dones  SET rating = $rating  WHERE event\_id = $event\_id; | |

|  |  |
| --- | --- |
| **Querie reference** | **UPDATE04** |
| **Querie description** | **Update options description** |
| **Querie frequency** | **Tens per month** |
| UPDATE options  SET description = $description  WHERE id = $id; | |

|  |  |
| --- | --- |
| **Querie reference** | **UPDATE05** |
| **Querie description** | **Update posts information** |
| **Querie frequency** | **Hundreds per month** |
| UPDATE posts  SET description = $description.  date = $date,  image\_id = $image\_id  WHERE id = $id; | |

|  |  |
| --- | --- |
| **Querie reference** | **UPDATE06** |
| **Querie description** | **Update current\_date** |
| **Querie frequency** | **Thousands per month** |
| UPDATE current\_date  SET date = $date  WHERE id = $id; | |

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| --- | --- |
| **Querie reference** | **INSERT01** |
| **Querie description** | **Regist new user** |
| **Querie frequency** | **Tens per month** |
| INSERT INTO users  (id,username,password,email,regist\_date,first\_name,last\_name, image\_path,city\_id)  VALUES ($id, $username, $password, $email, $regist\_date, $first\_name, $last\_name, $image\_path, $city\_id); | |

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| **Querie reference** | **INSERT02** |
| **Querie description** | **Create new event** |
| **Querie frequency** | **Tens per month** |
| INSERT INTO events (id,name,date,description,owner\_id,localization\_id,image\_id,type,category)  VALUES ($id,$name,$date,$description,$owner\_id,$localization\_id,$image\_id, $type,$category); | |

|  |  |
| --- | --- |
| **Querie reference** | **INSERT03** |
| **Querie description** | **Create new post** |
| **Querie frequency** | **Tens per month** |
| INSERT INTO posts (id,description,date,event\_id, user\_id, image\_id)  VALUES ($id,$description,$date,$event\_id, $user\_id, $image\_id); | |

|  |  |
| --- | --- |
| **Querie reference** | **INSERT04** |
| **Querie description** | **Create new event done** |
| **Querie frequency** | **Tens per month** |
| INSERT INTO dones (event\_id,rating)  VALUES ($event, $rating); | |
| **Querie reference** | **INSERT05** |
| **Querie description** | **Create new event not\_done** |
| **Querie frequency** | **Tens per month** |
| INSERT INTO dones (event\_id)  VALUES ($event); | |

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| --- | --- |
| **Querie reference** | INSERT06 |
| **Querie description** | Create new participant |
| **Querie frequency** | Tens per month |
| INSERT INTO participants (id,user\_id,event\_id)  VALUES ($id,$user\_id,$event\_id); | |

|  |  |
| --- | --- |
| **Querie reference** | INSERT07 |
| **Querie description** | Create new owner |
| **Querie frequency** | Units per month |
| INSERT INTO owners (id,user\_id,event\_id)  VALUES ($id,$user\_id,$event\_id); | |

|  |  |
| --- | --- |
| **Querie reference** | **INSERT08** |
| **Querie description** | **Create new image** |
| **Querie frequency** | **Tens per month** |
| INSERT INTO images (id,path) VALUES ($id,$path); | |

|  |  |
| --- | --- |
| **Querie reference** | **INSERT09** |
| **Querie description** | **Create new localization** |
| **Querie frequency** | **Units per month** |
| INSERT INTO localizations (id,name,address,latitude,longitude,city\_id)  VALUES ($id,$name,$address,$latitude,$longitude,$city\_id); | |

|  |  |
| --- | --- |
| **Querie reference** | **INSERT10** |
| **Querie description** | **Create new city** |
| **Querie frequency** | **Units per month** |
| INSERT INTO cities (id,name,country\_id) VALUES ($id,$name,$country\_id); | |

|  |  |
| --- | --- |
| **Querie reference** | **INSERT11** |
| **Querie description** | **Create new country** |
| **Querie frequency** | **Units per month** |
| INSERT INTO countries (id,name) VALUES ($id,$name); | |

|  |  |
| --- | --- |
| **Querie reference** | **INSERT12** |
| **Querie description** | **Create new poll** |
| **Querie frequency** | **Units per month** |
| INSERT INTO polls (id,post\_id) VALUES ($id,$posts\_id); | |

|  |  |
| --- | --- |
| **Querie reference** | **INSERT13** |
| **Querie description** | **Create new option** |
| **Querie frequency** | **Tens per month** |
| INSERT INTO options (id,description,poll\_id) VALUES ($id,$description,$poll\_id); | |
| **Querie reference** | **INSERT14** |
| **Querie description** | **Create new friend request** |
| **Querie frequency** | **Tens per month** |
| INSERT INTO friend\_requests (id,answer,sender\_id,receiver\_id)  VALUES ($id,$answer,$sender\_id,$receiver\_id); | |

|  |  |
| --- | --- |
| **Querie reference** | **INSERT15** |
| **Querie description** | **Create new friend activity** |
| **Querie frequency** | **Tens per month** |
| INSERT INTO friend\_activities (id,sender\_id,receiver\_id,event\_id)  VALUES ($id,$sender\_id,$receiver\_id,$event\_id); | |

|  |  |
| --- | --- |
| **Querie reference** | **INSERT16** |
| **Querie description** | **Create new event invite** |
| **Querie frequency** | **Tens per month** |
| INSERT INTO event\_invites (id,answer,event\_id,owner\_id,receiver\_id)  VALUES ($id,$answer,$event\_id,$owner\_id,$receiver\_id); | |

|  |  |
| --- | --- |
| **Querie reference** | **INSERT17** |
| **Querie description** | **Create new friendship** |
| **Querie frequency** | **Tens per month** |
| INSERT INTO friendships (id, user\_id\_1, user\_id\_2)  VALUES ($id, $user\_id\_1, $user\_id\_2); | |

|  |  |
| --- | --- |
| **Querie reference** | **INSERT18** |
| **Querie description** | **Create new event warning** |
| **Querie frequency** | **Tens per month** |
| INSERT INTO event\_warnings (id, event\_id, receiver\_id, message)  VALUES ($id, $event\_id, $receiver\_id, $message); | |

|  |  |
| --- | --- |
| **Querie reference** | **DELETE01** |
| **Querie description** | **Delete an user** |
| **Querie frequency** | **Units per month** |
| DELETE FROM "users"  WHERE id = $id; | |

|  |  |
| --- | --- |
| **Querie reference** | **DELETE02** |
| **Querie description** | **Delete an event** |
| **Querie frequency** | **Units per month** |
| DELETE FROM events  WHERE id = $id; | |

|  |  |
| --- | --- |
| **Querie reference** | **DELETE03** |
| **Querie description** | **Delete a post** |
| **Querie frequency** | **Units per month** |
| DELETE FROM posts  WHERE id = $id; | |

|  |  |
| --- | --- |
| **Querie reference** | **DELETE04** |
| **Querie description** | **Delete an option** |
| **Querie frequency** | **Tens per month** |
| DELETE FROM options  WHERE id = $id; | |

|  |  |
| --- | --- |
| **Querie reference** | **DELETE05** |
| **Querie description** | **Delete a poll** |
| **Querie frequency** | **Units per month** |
| DELETE FROM polls  WHERE id = $id; | |

|  |  |
| --- | --- |
| **Querie reference** | **DELETE06** |
| **Querie description** | **Delete a friendship** |
| **Querie frequency** | **Units per month** |
| DELETE FROM friendships  WHERE id = $id; | |

|  |  |
| --- | --- |
| **Querie reference** | **DELETE07** |
| **Querie description** | **Delete a friend\_request** |
| **Querie frequency** | **Tens per month** |
| DELETE FROM friend\_requests  WHERE id = $id; | |

|  |  |
| --- | --- |
| **Querie reference** | **DELETE08** |
| **Querie description** | **Delete an event\_invite** |
| **Querie frequency** | **Tens per month** |
| DELETE FROM event\_invites  WHERE id = $id; | |

**2. Proposed indexes**

**2.1 Performance indexes**

|  |  |
| --- | --- |
| **Index reference** | IDX01 |
| **Related queries** | SELECT01 |
| **Index relation** | user |
| **Index atribute** | username |
| **Index type** | Hash |
| **Cardinality** | High |
| **Clustering** | No |
| **Justification** | Query SELECT01 has to be fast as it is executed many times; doesn't need range query support; cardinality is high because email is an unique key; it's not a good candidate for clustering. |
| CREATE INDEX user\_username ON users USING hash (username); | |

|  |  |
| --- | --- |
| **Index reference** | IDX02 |
| **Related queries** | SELECT02 |
| **Index relation** | events |
| **Index** **atribute** | owner\_id |
| **Index type** | Hash |
| **Cardinality** | high |
| **Clustering** | No |
| **Justification** | Query has to be fast as it is executed many times; doesn't need range query support; cardinality is high because owner\_id is an unique key; it's not a good candidate for clustering. |
| CREATE INDEX owner\_events ON events USING hash(owner\_id); | |

**2.2 Full-text search indexes**

|  |  |
| --- | --- |
| **Index reference** | IDX03 |
| **Related queries** | SELECT03 |
| **Index** **relation** | event |
| **Index atribute** | name |
| **Index type** | GIST |
| **Clustering** | No |
| **Justification** | To improve the performance of full text searches while searching for events and their names; GiST because it's better for dynamic data. |
| CREATE INDEX search\_events ON events USING GIST (to\_tsvector('english', name)); | |

**3. Triggers**

|  |  |
| --- | --- |
| **Trigger reference** | TRIGGER01 |
| **Trigger description** | When the current\_date is updated, it is verified if it is greater than the event\_date. In that case, the event is added to the dones table and removed from the not\_dones. |
| CREATE FUNCTION set\_event\_as\_done() RETURNS TRIGGER AS  $BODY$  BEGIN  IF EXISTS (SELECT event\_id FROM not\_done WHERE NEW.event\_id = id)  THEN  INSERT INTO dones (NEW.event\_id, NULL);  DELETE FROM not\_dones WHERE id = NEW.event\_id;  END IF;  RETURN NEW;  END  $BODY$  LANGUAGE plpgsql;    CREATE TRIGGER set\_event\_as\_done  BEFORE UPDATE OF date ON current\_date  FOR EACH ROW  WHEN NEW.date = now()  EXECUTE PROCEDURE set\_event\_as\_done(); | |

|  |  |
| --- | --- |
| **Trigger reference** | TRIGGER02 |
| **Trigger description** | When an event is deleted a notification is sent to the user |
| CREATE FUNCTION notificate\_event\_delete() RETURNS TRIGGER AS  $BODY$  WHILE( SELECT id FROM participants WHERE participants.event\_id = OLD.event\_id)  BEGIN  INSERT INTO event\_warnings(OLD.event\_id, id)  END  $BODY$  LANGUAGE plpgsql;    CREATE TRIGGER notificate\_event\_delete  FOR DELETE OR UPDATE ON events  FOR EACH ROW  EXECUTE PROCEDURE notificate\_event\_delete(); | |

**4. SQL Code**

[Lbaw1765\_db.sql](https://github.com/Quaresma1997/lbaw1765/blob/gh-pages/lbaw1765_db.sql)

--Types Enums

DROP TYPE IF EXISTS categories CASCADE;

CREATE TYPE categories AS ENUM(

'Music',

'Sports',

'Entertainment',

'Educational',

'Business',

'Other'

);

DROP TYPE IF EXISTS types\_of\_event CASCADE;

CREATE TYPE types\_of\_event AS ENUM(

'Public',

'Private'

);

--Tables

DROP TABLE IF EXISTS admins CASCADE;

CREATE TABLE admins (

id SERIAL NOT NULL,

username text NOT NULL,

password text NOT NULL,

email text NOT NULL,

CONSTRAINT admins\_pk PRIMARY KEY (id),

CONSTRAINT admins\_email\_uk UNIQUE (email)

);

DROP TABLE IF EXISTS cities CASCADE;

CREATE TABLE cities (

id SERIAL NOT NULL,

name text NOT NULL,

country\_id INTEGER NOT NULL,

CONSTRAINT cities\_pk PRIMARY KEY (id),

CONSTRAINT cities\_name\_uk UNIQUE (name)

);

DROP TABLE IF EXISTS current\_date CASCADE;

CREATE TABLE current\_date (

id SERIAL NOT NULL,

date TIMESTAMP WITH TIME zone NOT NULL,

CONSTRAINT current\_date\_pk PRIMARY KEY (id),

);

DROP TABLE IF EXISTS countries CASCADE;

CREATE TABLE countries (

id SERIAL NOT NULL,

name text NOT NULL,

CONSTRAINT countries\_pk PRIMARY KEY (id),

CONSTRAINT countries\_name\_uk UNIQUE (name)

);

DROP TABLE IF EXISTS dones CASCADE;

CREATE TABLE dones (

event\_id INTEGER NOT NULL,

rating INTEGER,

CONSTRAINT dones\_pk PRIMARY KEY (event\_id),

CONSTRAINT rating\_ck CHECK (((rating >= 1) AND (rating <= 5)))

);

DROP TABLE IF EXISTS events CASCADE;

CREATE TABLE events (

id SERIAL NOT NULL,

name text NOT NULL,

date TIMESTAMP WITH TIME zone NOT NULL,

description text NOT NULL,

owner\_id INTEGER NOT NULL,

localization\_id INTEGER NOT NULL,

image\_id INTEGER NOT NULL,

type event\_type NOT NULL,

category categories NOT NULL,

CONSTRAINT events\_pk PRIMARY KEY (id),

CONSTRAINT date\_ck CHECK ((date > now()))

);

DROP TABLE IF EXISTS event\_invites CASCADE;

CREATE TABLE event\_invites (

id SERIAL NOT NULL,

answer text NOT NULL,

event\_id INTEGER NOT NULL,

owner\_id INTEGER NOT NULL,

receiver\_id INTEGER NOT NULL,

CONSTRAINT event\_invites\_pk PRIMARY KEY (id)

);

DROP TABLE IF EXISTS event\_warnings CASCADE;

CREATE TABLE event\_warnings (

id SERIAL NOT NULL,

event\_id INTEGER NOT NULL,

receiver\_id INTEGER NOT NULL,

message text NOT NULL,

CONSTRAINT event\_warnings\_pk PRIMARY KEY (id),

CONSTRAINT event\_warnings\_event\_id\_fk FOREIGN KEY (event\_id) REFERENCES events(id),

CONSTRAINT event\_warnings\_user\_id\_fk FOREIGN KEY (user\_id) REFERENCES users(id)

);

DROP TABLE IF EXISTS friend\_activities CASCADE;

CREATE TABLE friend\_activities (

id SERIAL NOT NULL,

sender\_id INTEGER NOT NULL,

receiver\_id INTEGER NOT NULL,

event\_id INTEGER NOT NULL,

CONSTRAINT friend\_activities\_pk PRIMARY KEY (id),

CONSTRAINT friend\_activities\_event\_id\_fk FOREIGN KEY (event\_id) REFERENCES

events(id) ON DELETE CASCADE

);

DROP TABLE IF EXISTS friend\_requests CASCADE;

CREATE TABLE friend\_requests (

id SERIAL NOT NULL,

answer text NOT NULL,

sender\_id INTEGER NOT NULL,

receiver\_id INTEGER NOT NULL,

CONSTRAINT friend\_requests\_pk PRIMARY KEY (id)

);

DROP TABLE IF EXISTS friendships CASCADE;

CREATE TABLE friendships (

id SERIAL NOT NULL,

user\_id\_1 INTEGER NOT NULL,

user\_id\_2 INTEGER NOT NULL,

CONSTRAINT friendships\_users\_ids\_uk UNIQUE (user\_id\_1, user\_id\_2)

)

DROP TABLE IF EXISTS images CASCADE;

CREATE TABLE images (

id SERIAL NOT NULL,

path text NOT NULL,

CONSTRAINT images\_pk PRIMARY KEY (id),

CONSTRAINT images\_path\_uk UNIQUE (path)

);

DROP TABLE IF EXISTS localizations CASCADE;

CREATE TABLE localizations (

id SERIAL NOT NULL,

name text NOT NULL,

address text NOT NULL,

latitude FLOAT,

longitude FLOAT,

city\_id INTEGER NOT NULL,

CONSTRAINT localizations\_pk PRIMARY KEY (id),

CONSTRAINT localizations\_city\_id\_fk FOREIGN KEY (city\_id) REFERENCES

cities(id) ON DELETE SET NULL

);

DROP TABLE IF EXISTS not\_dones CASCADE;

CREATE TABLE not\_dones (

event\_id INTEGER NOT NULL,

CONSTRAINT not\_dones\_pk PRIMARY KEY (event\_id),

CONSTRAINT not\_dones\_event\_id\_fk FOREIGN KEY (event\_id) REFERENCES

events(id) ON UPDATE CASCADE

);

DROP TABLE IF EXISTS options CASCADE;

CREATE TABLE options (

id SERIAL NOT NULL,

description text NOT NULL,

poll\_id INTEGER NOT NULL,

CONSTRAINT options\_pk PRIMARY KEY (id)

);

DROP TABLE IF EXISTS owners CASCADE;

CREATE TABLE owners (

id SERIAL NOT NULL,

user\_id INTEGER NOT NULL,

event\_id INTEGER NOT NULL,

CONSTRAINT owners\_pk PRIMARY KEY (id),

CONSTRAINT owners\_user\_id\_event\_id\_uk UNIQUE (user\_id, event\_id),

CONSTRAINT owners\_event\_id\_fk FOREIGN KEY (event\_id) REFERENCES

events(id) ON DELETE SET NULL

);

DROP TABLE IF EXISTS participants CASCADE;

CREATE TABLE participants (

id SERIAL NOT NULL,

user\_id INTEGER NOT NULL,

event\_id INTEGER NOT NULL,

CONSTRAINT participants\_pk PRIMARY KEY (id),

CONSTRAINT participants\_user\_id\_event\_id\_uk UNIQUE (user\_id, event\_id),

CONSTRAINT participants\_event\_id\_fk FOREIGN KEY (event\_id) REFERENCES

events(id) ON DELETE SET NULL

);

DROP TABLE IF EXISTS polls CASCADE;

CREATE TABLE polls (

id SERIAL NOT NULL,

post\_id INTEGER NOT NULL,

CONSTRAINT polls\_pk PRIMARY KEY (id)

);

DROP TABLE IF EXISTS posts CASCADE;

CREATE TABLE posts (

id SERIAL NOT NULL,

description text NOT NULL,

date TIMESTAMP WITH TIME zone NOT NULL,

event\_id INTEGER NOT NULL,

user\_id INTEGER NOT NULL,

image\_id INTEGER NOT NULL,

CONSTRAINT posts\_pk PRIMARY KEY (id),

CONSTRAINT posts\_event\_id\_fk FOREIGN KEY (event\_id) REFERENCES

events(id) ON DELETE CASCADE,

CONSTRAINT posts\_image\_id\_fk FOREIGN KEY (image\_id) REFERENCES

images(id) ON DELETE SET NULL

);

DROP TABLE IF EXISTS users CASCADE;

CREATE TABLE users (

id SERIAL NOT NULL,

username text NOT NULL,

password text NOT NULL,

email text NOT NULL,

regist\_date TIMESTAMP WITH TIME zone DEFAULT now() NOT NULL,

first\_name text NOT NULL,

last\_name text NOT NULL,

image\_path text NOT NULL,

city\_id INTEGER NOT NULL,

CONSTRAINT users\_pk PRIMARY KEY (id),

CONSTRAINT users\_name\_uk UNIQUE (username),

CONSTRAINT users\_email\_uk UNIQUE (email),

CONSTRAINT users\_city\_id\_fk FOREIGN KEY (city\_id) REFERENCES

cities(id) ON DELETE SET NULL

);

ALTER TABLE ONLY cities

ADD CONSTRAINT cities\_country\_id\_fk FOREIGN KEY (country\_id) REFERENCES

countries(id) ON DELETE SET NULL;

ALTER TABLE ONLY dones

ADD CONSTRAINT dones\_event\_id\_fk FOREIGN KEY (event\_id) REFERENCES

events(id) ON UPDATE CASCADE;

ALTER TABLE ONLY events

ADD CONSTRAINT events\_owner\_id\_fk FOREIGN KEY (owner\_id) REFERENCES

users(id) ON UPDATE CASCADE;

ALTER TABLE ONLY events

ADD CONSTRAINT events\_localization\_id\_fk FOREIGN KEY (localization\_id) REFERENCES

localizations(id) ON DELETE SET NULL;

ALTER TABLE ONLY events

ADD CONSTRAINT events\_image\_id\_fk FOREIGN KEY (image\_id) REFERENCES

images(id) ON DELETE SET NULL;

ALTER TABLE ONLY event\_invites

ADD CONSTRAINT event\_invites\_event\_id\_fk FOREIGN KEY (event\_id) REFERENCES

not\_dones(event\_id) ON DELETE CASCADE;

ALTER TABLE ONLY event\_invites

ADD CONSTRAINT event\_invites\_owner\_id\_fk FOREIGN KEY (owner\_id) REFERENCES

owners(id) ON DELETE SET NULL;

ALTER TABLE ONLY event\_invites

ADD CONSTRAINT event\_invites\_receiver\_id\_fk FOREIGN KEY (receiver\_id) REFERENCES

users(id) ON DELETE SET NULL;

ALTER TABLE ONLY friend\_activities

ADD CONSTRAINT friend\_activities\_sender\_id\_fk FOREIGN KEY (sender\_id) REFERENCES

users(id) ON DELETE SET NULL;

ALTER TABLE ONLY friend\_activities

ADD CONSTRAINT friend\_activities\_receiver\_id\_fk FOREIGN KEY (receiver\_id) REFERENCES

users(id) ON DELETE SET NULL;

ALTER TABLE ONLY friend\_requests

ADD CONSTRAINT friend\_requests\_sender\_id\_fk FOREIGN KEY (sender\_id) REFERENCES

participants(id) ON DELETE CASCADE;

ALTER TABLE ONLY friend\_requests

ADD CONSTRAINT friend\_requests\_receiver\_id\_fk FOREIGN KEY (receiver\_id) REFERENCES

users(id) ON DELETE CASCADE;

ALTER TABLE ONLY friendships

ADD CONSTRAINT friendships\_user\_id\_1 FOREIGN KEY (user\_id\_1) REFERENCES

users(id) ON UPDATE CASCADE;

ALTER TABLE ONLY friendships

ADD CONSTRAINT friendships\_user\_id\_2 FOREIGN KEY (user\_id\_2) REFERENCES

users(id) ON UPDATE CASCADE;

ALTER TABLE ONLY options

ADD CONSTRAINT options\_poll\_id\_fk FOREIGN KEY (poll\_id) REFERENCES

polls(id) ON DELETE CASCADE;

ALTER TABLE ONLY owners

ADD CONSTRAINT owners\_user\_id\_fk FOREIGN KEY (user\_id) REFERENCES

users(id) ON UPDATE CASCADE;

ALTER TABLE ONLY participants

ADD CONSTRAINT participants\_user\_id\_fk FOREIGN KEY (user\_id) REFERENCES

users(id) ON UPDATE CASCADE;

ALTER TABLE ONLY polls

ADD CONSTRAINT polls\_post\_id\_fk FOREIGN KEY (post\_id) REFERENCES

posts(id) ON DELETE CASCADE;

ALTER TABLE ONLY posts

ADD CONSTRAINT posts\_user\_id\_fk FOREIGN KEY (user\_id) REFERENCES

users(id) ON DELETE CASCADE;

UPDATE "users"

SET password = $password,

email = #email,

first\_name = $first\_name,

last\_name = $last\_name,

image\_path = $image\_path,

city\_id = $city\_id

WHERE id = $id;

UPDATE events

SET name = $name,

date = $date,

description = $description,

localization\_id = $localization\_id,

image\_id = $image\_id,

event\_type = $event\_type,

category = $category

WHERE id = $id;

UPDATE dones

SET rating = $rating

WHERE event\_id = $event\_id;

UPDATE options

SET description = $description

WHERE id = $id;

UPDATE posts

SET description = $description.

date = $date,

image\_id = $image\_id

WHERE id = $id;

UPDATE current\_date

SET date = $date

WHERE id = $id;

DELETE FROM "users"

WHERE id = $id;

DELETE FROM events

WHERE id = $id;

DELETE FROM posts

WHERE id = $id;

DELETE FROM options

WHERE id = $id;

DELETE FROM polls

WHERE id = $id;

DELETE FROM friendships

WHERE id = $id;

DELETE FROM friend\_requests

WHERE id = $id;

DELETE FROM event\_invites

WHERE id = $id;

CREATE FUNCTION set\_event\_as\_done() RETURNS TRIGGER AS

$BODY$

BEGIN

IF EXISTS (SELECT event\_id FROM not\_done WHERE NEW.event\_id = id)

THEN

INSERT INTO dones (NEW.event\_id, NULL);

DELETE FROM not\_dones WHERE id = NEW.event\_id;

END IF;

RETURN NEW;

END

$BODY$

LANGUAGE plpgsql;

CREATE TRIGGER set\_event\_as\_done

BEFORE UPDATE OF date ON current\_date

FOR EACH ROW

WHEN NEW.date = now()

EXECUTE PROCEDURE set\_event\_as\_done();

CREATE FUNCTION notificate\_event\_delete() RETURNS TRIGGER AS

$BODY$

WHILE( SELECT id FROM participants WHERE participants.event\_id = OLD.event\_id)

BEGIN

INSERT INTO event\_warnings(OLD.event\_id, id)

END

$BODY$

LANGUAGE plpgsql;

CREATE TRIGGER notificate\_event\_delete

FOR DELETE OR UPDATE ON events

FOR EACH ROW

EXECUTE PROCEDURE notificate\_event\_delete();

--> QUERIES

--> user profile

SELECT username, last\_name, first\_name, email, image\_path, city\_id

FROM users

WHERE users.id = $user\_id;

--> user friends

SELECT user\_id\_1, user\_id\_2

FROM friendships

WHERE user\_id\_1 = $user\_id OR user\_id\_2 = $user\_id;

--> user events

SELECT event\_id

FROM participants

WHERE user\_id = $user\_id;

SELECT event\_id

FROM owners

WHERE user\_id = $user\_id;

--> notifications

SELECT sender\_id

FROM friend\_requests

WHERE receiver\_id = $user\_id;

SELECT sender\_id, event\_id

FROM friend\_activities

WHERE receiver\_id = $user\_id;

SELECT owner\_id, event\_id

FROM event\_invites

WHERE receiver\_id = $user\_id;

SELECT event\_id, "message"

FROM event\_warnings

WHERE receiver\_id = $user\_id;

--> search user

SELECT id, username, image\_path

FROM users

WHERE username LIKE %$search%

ORDER BY username;

--> search event

SELECT id, "name", image\_id, "date", localization, category

FROM events

WHERE "name" LIKE %$search% OR localization LIKE %$search% AND event\_type = 'public'

ORDER BY "name";

--> filter by category

SELECT id, "name", image\_id, "date", localization, category

FROM events

WHERE "name" LIKE %$search% OR localization LIKE %$search% AND event\_type = 'public' AND events.category LIKE %$categories%

ORDER BY "name";

--> search user

SELECT username, email, image\_path

FROM users

WHERE username LIKE %$search% OR email LIKE %$search%

ORDER BY username;

--> event page

SELECT events.id, events.name, events.category, events.image\_id, events.description, events."date" users.username

FROM events, users

WHERE events.owner\_id = users.id AND events.id = $event\_id;

SELECT posts.description, posts.id, posts.image\_id, posts.user\_id

FROM posts,events

WHERE posts.event\_id = $event\_id;

SELECT users.username, users.image\_path

FROM participants

WHERE users.id = participants.user\_id AND participants.event\_id=$event\_id;

--> Rating of a event

SELECT AVG(rating)

FROM dones

WHERE dones.event\_id= $event\_id;

-->who can i invite to the event

SELECT users.username

FROM users, events

WHERE users.id!= event.owner\_id AND users.id NOT IN (

SELECT user\_id

FROM participants

WHERE user\_id IS NOT NULL AND participants.event\_id=$event\_id) ;

--> INDEXES

CREATE INDEX user\_username ON users USING hash (username);

CREATE INDEX owner\_events ON events USING hash(owner\_id);

CREATE INDEX search\_events ON events USING GIST (to\_tsvector('english', name));

--> INSERTS

-- Here goes the SQL code - INSERTS

INSERT INTO users (id,username,password,email,regist\_date,first\_name,last\_name, image\_path,city\_id)

            VALUES (1,'sodales','GUL95ZXR9EX','sodales.at@curae.co.uk','2018-03-07 22:23:34','Zeph','Griffin','/imgs/natu.jpg');

INSERT INTO users (id,username,password,email,regist\_date,first\_name,last\_name, image\_path,city\_id)

            VALUES (2,'uso1','12345','aliquam.iaculis.lacus@amet.co.uk','2018-04-07 11:23:34','Ben','Warren','/imgs/natur.jpg');

INSERT INTO users (id,username,password,email,regist\_date,first\_name,last\_name, image\_path,city\_id)

            VALUES (3,'robin','pass123','amet.ante@faucibusleo.net','2018-02-12 15:55:12','Robin','Wright','/imgs/natur.jpg');

INSERT INTO users (id,username,password,email,regist\_date,first\_name,last\_name, image\_path,city\_id)

            VALUES (4,'bar123','semper123','ut.dolor@gmail.com','2017-12-12 23:55:12','Barry','Allen','/imgs/natur.jpg');

INSERT INTO users (id,username,password,email,regist\_date,first\_name,last\_name, image\_path,city\_id)

            VALUES (5,'reddevil','LBAW','Nulla@et.net','2018-02-12 15:55:12','Andrew','Irons','/imgs/november.jpg');

INSERT INTO users (id,username,password,email,regist\_date,first\_name,last\_name, image\_path,city\_id)

            VALUES (6,'rpedro10','lbaw1765','rpedro10@iol.pt','2018-01-01 23:55:12','Rui','Araujo','/imgs/fer.jpg');

INSERT INTO users (id,username,password,email,regist\_date,first\_name,last\_name, image\_path,city\_id)

            VALUES (7,'joss123','CKB15AAW5MM','ante@fleo.com','2018-03-12 12:55:12','Joss','Stone','/imgs/natur.jpg');

INSERT INTO users (id,username,password,email,regist\_date,first\_name,last\_name, image\_path,city\_id)

            VALUES (8,'top123','SXT16TTW3MH','cursus.et@orciUt.co.uk','2018-01-03 13:55:12','Chris','Harris','/imgs/natur.jpg');

INSERT INTO users (id,username,password,email,regist\_date,first\_name,last\_name, image\_path,city\_id)

            VALUES (9,'roland1','ZYS24FHN5GR','eget.dictum@orciDonec.edu','2018-03-12 09:55:12','Roland','Schitt','/imgs/natur.jpg');

INSERT INTO users (id,username,password,email,regist\_date,first\_name,last\_name, image\_path,city\_id)

            VALUES (10,'david123','ZUS29FRTGVJ','amet@faucibusleo.net','2018-01-22 15:07:12','David','Rose','/imgs/natur.jpg');

INSERT INTO users (id,username,password,email,regist\_date,first\_name,last\_name, image\_path,city\_id)

            VALUES (11,'catones', 'QQQ8EFHNGNR','amec.donec@faucibusleo.net','2017-11-12 15:55:12','Carlos','Antonio','/imgs/november.jpg');

INSERT INTO users (id,username,password,email,regist\_date,first\_name,last\_name, image\_path,city\_id)

            VALUES (12,'emanem','ASDFGHJKL','donex@sapo.net','2018-01-13 15:55:12','Raheem','Sterling','/imgs/natur.jpg');

INSERT INTO users (id,username,password,email,regist\_date,first\_name,last\_name, image\_path,city\_id)

            VALUES (13,'ufoExtis','ZXCVBNM','amet@iol.net','2018-02-12 15:55:12','Delle','Alli','/imgs/pyr.jpg');

INSERT INTO users (id,username,password,email,regist\_date,first\_name,last\_name, image\_path,city\_id)

            VALUES (14,'ragnar','QAZWSXEDC','risus.In.mi@egestas.com','2018-02-09 15:55:12','Thor','Ragnarok','/imgs/fer.jpg');

INSERT INTO users (id,username,password,email,regist\_date,first\_name,last\_name, image\_path,city\_id)

            VALUES (15,'seth','QWERTYUIOP','aliquet.diam.Sed@tinciduntnibh.co.uk','2018-01-12 15:55:12','Seth','Byers','/imgs/natu.jpg');

INSERT INTO users (id,username,password,email,regist\_date,first\_name,last\_name, image\_path,city\_id)

            VALUES (16,'edNorton','TYT71DOD7YN','scelerisque.scelerisque.dui@arcuiaculisenim.ca','2018-02-23 15:55:12','Ed','Norton','/imgs/natur.jpg');

INSERT INTO users (id,username,password,email,regist\_date,first\_name,last\_name, image\_path,city\_id)

            VALUES (17,'Pacquiao','SXT16TTW3MH','magnis@cursuset.edu','2018-04-12 15:55:12','Paky','Barret','/imgs/natur.jpg');

INSERT INTO users (id,username,password,email,regist\_date,first\_name,last\_name, image\_path,city\_id)

            VALUES (18,'steven','MPS10QPK6UE','arcu.Vestibulum@amet.org','2018-01-02 12:55:12','Donovan','Stevenson','/imgs/pyr.jpg');

INSERT INTO users (id,username,password,email,regist\_date,first\_name,last\_name, image\_path,city\_id)

            VALUES (19,'porter123','QIG24ZOK3EM','dui.nec@ultriciesadipiscing.co.uk','2018-02-12 15:55:12','Porter','Osborn','/imgs/natu.jpg');

INSERT INTO users (id,username,password,email,regist\_date,first\_name,last\_name, image\_path,city\_id)

            VALUES (20,'human','ZYG87WQA6FX','facilisis.magna.tellus@sociis.net','2018-04-01 11:55:12','Hu','Randolphe','/imgs/pyr.jpg');

INSERT INTO events (id,name,date,description,owner\_id,localization\_id,image\_id,type,category)

            VALUES (1,'Antonys Birthday Party', '2018-03-04 12:30:19.000000', 'nunc ac mattis ornare, lectus',1,1,1,'Public','Sports');

INSERT INTO events (id,name,date,description,owner\_id,localization\_id,image\_id,type,category)

            VALUES (2,'ENEI','2018-04-04 12:30:19.000000','Nunc quis arcu vel quam',2,2,2,'Public','Sports');

INSERT INTO events (id,name,date,description,owner\_id,localization\_id,image\_id,type,category)

            VALUES (3,'RockInRio','2018-06-04 12:30:19.000000','tempus eu, ligula. Aenean euismod',3,3,3,'Public','Sports');

INSERT INTO events (id,name,date,description,owner\_id,localization\_id,image\_id,type,category)

            VALUES (4,'Nos Alive','2018-08-04 12:30:19.000000','dignissim pharetra. Nam ac nulla.',3,4,4,'Public','Sports');

INSERT INTO events (id,name,date,description,owner\_id,localization\_id,image\_id,type,category)

            VALUES (5,'Christmas Dinner','2018-10-04 12:30:19.000000','dignissim pharetra. Nam ac nulla.',4,5,5,'Public','Sports');

INSERT INTO events (id,name,date,description,owner\_id,localization\_id,image\_id,type,category)

            VALUES (6,'Mark Birthday Party','2018-04-04 12:30:19.000000','dignissim pharetra. Nam ac nulla.',1,1,6,'Public','Sports');

INSERT INTO events (id,name,date,description,owner\_id,localization\_id,image\_id,type,category)

            VALUES (7,'WebSummit','2018-04-04 12:30:19.000000','lorem lorem, luctus ut, pellentesque',6,6,7,'Public','Sports');

INSERT INTO events (id,name,date,description,owner\_id,localization\_id,image\_id,type,category)

            VALUES (8,'Ted Talk','2018-04-04 12:30:19.000000','sollicitudin orci sem eget massa.',12,2,8,'Public','Sports');

INSERT INTO dones (event\_id,rating)

            VALUES (2,5);

INSERT INTO dones (event\_id,rating)

            VALUES (7,3);

INSERT INTO not\_dones (event\_id)

            VALUES (1);

INSERT INTO not\_dones (event\_id)

            VALUES (3);

INSERT INTO not\_dones (event\_id)

            VALUES (4);

INSERT INTO not\_dones (event\_id)

            VALUES (5);

INSERT INTO not\_dones (event\_id)

            VALUES (6);

INSERT INTO not\_dones (event\_id)

            VALUES (8);

INSERT INTO participants (id,user\_id,event\_id)

            VALUES (1,1,1);

INSERT INTO participants (id,user\_id,event\_id)

            VALUES (2,2,1);

INSERT INTO participants (id,user\_id,event\_id)

            VALUES (3,2,2);

INSERT INTO participants (id,user\_id,event\_id)

            VALUES (4,3,1);

INSERT INTO participants (id,user\_id,event\_id)

            VALUES (5,4,1);

INSERT INTO participants (id,user\_id,event\_id)

            VALUES (6,5,8);

INSERT INTO participants (id,user\_id,event\_id)

            VALUES (7,6,8);

INSERT INTO participants (id,user\_id,event\_id)

            VALUES (8,7,3);

INSERT INTO participants (id,user\_id,event\_id)

            VALUES (9,12,3);

INSERT INTO participants (id,user\_id,event\_id)

            VALUES (10,13,3);

INSERT INTO participants (id,user\_id,event\_id)

            VALUES (11,14,3);

INSERT INTO participants (id,user\_id,event\_id)

            VALUES (12,15,1);

INSERT INTO participants (id,user\_id,event\_id)

            VALUES (13,16,2);

INSERT INTO participants (id,user\_id,event\_id)

            VALUES (14,17,3);

INSERT INTO participants (id,user\_id,event\_id)

            VALUES (15,18,2);

INSERT INTO participants (id,user\_id,event\_id)

            VALUES (16,19,1);

INSERT INTO participants (id,user\_id,event\_id)

            VALUES (17,20,3);

INSERT INTO participants (id,user\_id,event\_id)

            VALUES (18,12,6);

INSERT INTO participants (id,user\_id,event\_id)

            VALUES (19,12,5);

INSERT INTO participants (id,user\_id,event\_id)

            VALUES (20,10,4);

INSERT INTO owners (id,user\_id,event\_id)

            VALUES (1,1,1);

INSERT INTO owners (id,user\_id,event\_id)

            VALUES (2,2,2);

INSERT INTO owners (id,user\_id,event\_id)

            VALUES (3,3,3);

INSERT INTO owners (id,user\_id,event\_id)

            VALUES (4,3,4);

INSERT INTO owners (id,user\_id,event\_id)

            VALUES (5,5,5);

INSERT INTO owners (id,user\_id,event\_id)

            VALUES (6,1,6);

INSERT INTO owners (id,user\_id,event\_id)

            VALUES (7,6,7);

INSERT INTO owners (id,user\_id,event\_id)

            VALUES (8,12,8);

INSERT INTO images (id,path) VALUES (1,'/imgs/natur.jpg');

INSERT INTO images (id,path) VALUES (2,'/imgs/natu.jpg');

INSERT INTO images (id,path) VALUES (3,'/imgs/pyr.jpg');

INSERT INTO images (id,path) VALUES (4,'/imgs/november.jpg');

INSERT INTO images (id,path) VALUES (5,'/imgs/taj.jpg');

INSERT INTO images (id,path) VALUES (6,'/imgs/fer.jpg');

INSERT INTO images (id,path) VALUES (7,'/imgs/fa1.jpg');

INSERT INTO images (id,path) VALUES (8,'/imgs/fa2.jpg');

INSERT INTO localizations (id,name,address,latitude,longitude,city\_id) VALUES (1,'Restaurante O Pirata','Rua da Isabelinha',41.452993,-8.5775364,1);

INSERT INTO localizations (id,name,address,latitude,longitude,city\_id) VALUES (2,'FEUP','Rua Roberto Frias',41.1779401,-8.5998763,2);

INSERT INTO localizations (id,name,address,latitude,longitude,city\_id) VALUES (3,'Parque da BelaVista','Av. Arlindo Vicente',38.7507558,-9.1265431,3);

INSERT INTO localizations (id,name,address,latitude,longitude,city\_id) VALUES (4,'Passeio Maritimo de Alges','Alges',38.697318,-9.2375993,3);

INSERT INTO localizations (id,name,address,latitude,longitude,city\_id) VALUES (5,'Hotel Douro','Rua de Agramonte',41.1564707,-8.6288115,2);

INSERT INTO localizations (id,name,address,latitude,longitude,city\_id) VALUES (6,'Norte shopping','Matosinhos',41.1825143,-8.6803795,2);

INSERT INTO cities (id,name,country\_id) VALUES (1,'Braga',1);

INSERT INTO cities (id,name,country\_id) VALUES (1,'Porto',1);

INSERT INTO cities (id,name,country\_id) VALUES (1,'Lisboa',1);

INSERT INTO countries (id,name) VALUES (1,'Portugal');

INSERT INTO countries (id,name) VALUES (2,'Espanha');

INSERT INTO countries (id,name) VALUES (3,'USA');

INSERT INTO posts (id,description,date,event\_id, user\_id, image\_id) VALUES (1,'Lorem ipsum dolor sit amet. ','2018-02-12 15:55:12',1,1,1);

INSERT INTO posts (id,description,date,event\_id, user\_id, image\_id) VALUES (2,'Lorem ipsum dolor sit amet. ','2018-02-12 15:55:12',1,3,1);

INSERT INTO posts (id,description,date,event\_id, user\_id, image\_id) VALUES (3,'Lorem ipsum dolor sit amet. ','2018-02-12 15:55:12',1,4,1);

INSERT INTO posts (id,description,date,event\_id, user\_id, image\_id) VALUES (4,'Lorem ipsum dolor sit amet. ''2018-02-12 15:55:12',,1,16,1);

INSERT INTO posts (id,description,date,event\_id, user\_id, image\_id) VALUES (5,'Lorem ipsum dolor sit amet. ','2018-02-12 15:55:12',2,18,1);

INSERT INTO posts (id,description,date,event\_id, user\_id, image\_id) VALUES (6,'Lorem ipsum dolor sit amet. ','2018-02-12 15:55:12',4,10,2);

INSERT INTO posts (id,description,date,event\_id, user\_id, image\_id) VALUES (7,'Lorem ipsum dolor sit amet. ','2018-02-12 15:55:12',3,17,2);

INSERT INTO posts (id,description,date,event\_id, user\_id, image\_id) VALUES (8,'Lorem ipsum dolor sit amet. ','2018-02-12 15:55:12',3,14,2);

INSERT INTO posts (id,description,date,event\_id, user\_id, image\_id) VALUES (9,'Lorem ipsum dolor sit amet. ','2018-02-12 15:55:12',4,5,3);

INSERT INTO posts (id,description,date,event\_id, user\_id, image\_id) VALUES (10,'Lorem ipsum dolor sit amet. ','2018-01-12 15:55:12',2,16,2);

INSERT INTO posts (id,description,date,event\_id, user\_id, image\_id) VALUES (11,'Lorem ipsum dolor sit amet. ','2018-02-12 15:55:12',3,12,2);

INSERT INTO posts (id,description,date,event\_id, user\_id, image\_id) VALUES (12,'Lorem ipsum dolor sit amet. ','2018-02-12 15:55:12',1,15,2);

INSERT INTO posts (id,description,date,event\_id, user\_id, image\_id) VALUES (13,'Lorem ipsum dolor sit amet. ','2018-02-12 15:55:12',5,12,3);

INSERT INTO polls (id,post\_id) VALUES (1,1);

INSERT INTO polls (id,post\_id) VALUES (2,2);

INSERT INTO polls (id,post\_id) VALUES (3,3);

INSERT INTO polls (id,post\_id) VALUES (4,4);

INSERT INTO options (id,description,poll\_id) VALUES (1,'Bar',1);

INSERT INTO options (id,description,poll\_id) VALUES (2,'Cafe',1);

INSERT INTO options (id,description,poll\_id) VALUES (3,'Club',1);

INSERT INTO options (id,description,poll\_id) VALUES (4,'Home',1);

INSERT INTO options (id,description,poll\_id) VALUES (5,'12/05/2018',2);

INSERT INTO options (id,description,poll\_id) VALUES (6,'13/05/2018',2);

INSERT INTO options (id,description,poll\_id) VALUES (7,'Great',3);

INSERT INTO options (id,description,poll\_id) VALUES (8,'Good',3);

INSERT INTO options (id,description,poll\_id) VALUES (9,'Available',4);

INSERT INTO options (id,description,poll\_id) VALUES (10,'Not Available',4);

INSERT INTO admin (id,username,password,email) VALUES (1,'admin','admin123','amec.reset@edu.pt');

INSERT INTO friend\_requests (id,answer,sender\_id,receiver\_id) VALUES (1,'YES',1,2);

INSERT INTO friend\_requests (id,answer,sender\_id,receiver\_id) VALUES (3,'YES',1,3);

INSERT INTO friend\_requests (id,answer,sender\_id,receiver\_id) VALUES (4,'NO',1,4);

INSERT INTO friend\_requests (id,answer,sender\_id,receiver\_id) VALUES (5,'YES',1,5);

INSERT INTO friend\_activities (id,sender\_id,receiver\_id,event\_id) VALUES (1,1,2,1);

INSERT INTO friend\_activities (id,sender\_id,receiver\_id,event\_id) VALUES (2,2,3,2);

INSERT INTO event\_invites (id,answer,event\_id,owner\_id,receiver\_id) VALUES (1,'YES',1,1,2);

INSERT INTO event\_invites (id,answer,event\_id,owner\_id,receiver\_id) VALUES (2,'YES',1,1,3);

INSERT INTO event\_invites (id,answer,event\_id,owner\_id,receiver\_id) VALUES (3,'YES',1,1,4);

INSERT INTO event\_invites (id,answer,event\_id,owner\_id,receiver\_id) VALUES (4,'YES',1,1,19);

INSERT INTO friendships (id, user\_id\_1, user\_id\_2) VALUES (1,2,3);

INSERT INTO friendships (id, user\_id\_1, user\_id\_2) VALUES (2,4,7);

INSERT INTO event\_warnings (id, event\_id, receiver\_id, message) VALUES (1,4,1,"Canceled");

INSERT INTO current\_date (id, date) VALUES (1,'2018-04-04 12:30:19.000000');

**GRUPO1765, 21/03/2018**

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