

Projeto Banco de Dados

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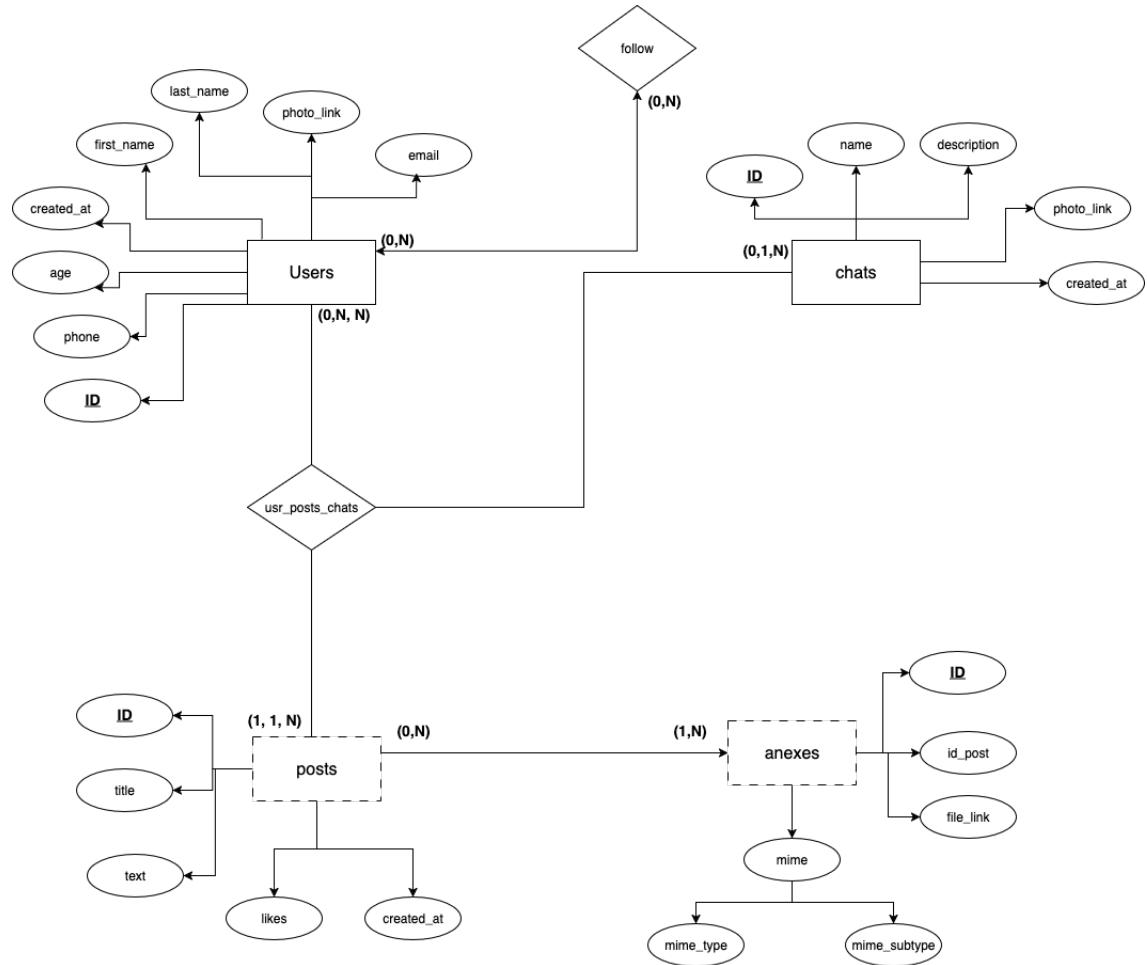
Git Latex Link

https://github.com/habdig7oficial/Baco_dados_latex_doc.git

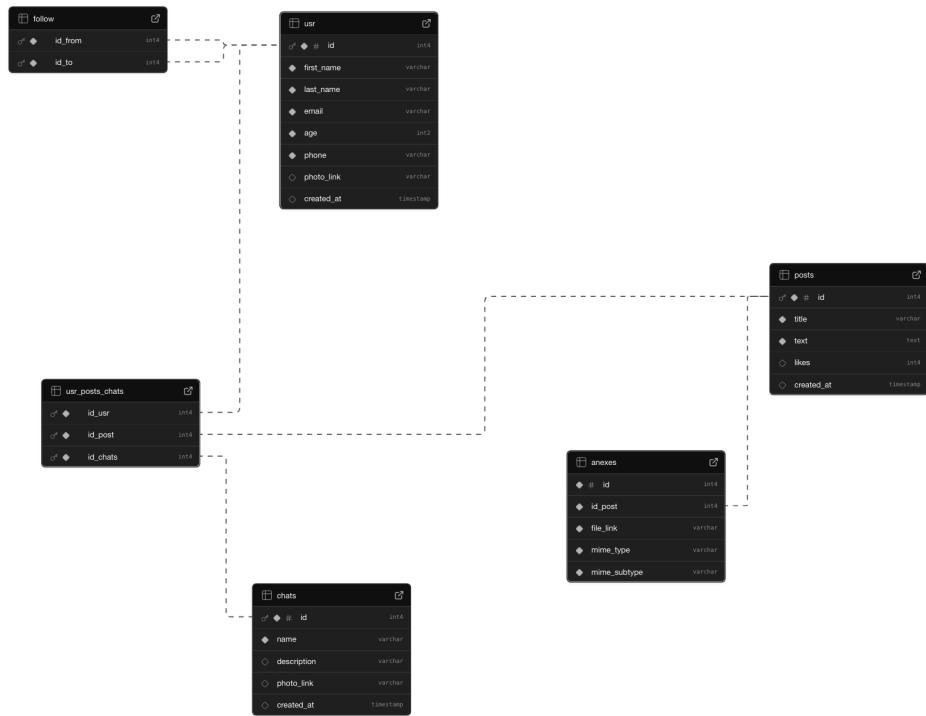
1 Texto de Modelagem

Foi criado uma modelagem na qual há *Usuários*, *Posts*, *Anexos* e *Chats* como entidades, na qual Cada Usuário pode possuir diversos Posts em diversos Chats e cada post deve pertencer a pelo menos um chat e um usuário criador, a entidade Usuário é independente não dependendo de Post nem Chats para ser criada, enquanto Chats depende de pelo menos um Usuário para existir. A entidade Anexos está relacionada com Post, com um post podendo possuir muitos anexos, mas cada anexo pertence exclusivamente a um post (por motivos de não ser possível assegurar de uma maneira computacionalmente viável em escala se um anexo é o mesmo entre diversos posts). Além disto nesta rede social há a possibilidade de um usuário poder seguir e ser seguido por muitos usuários, incluindo uma relação recíproca em que um par de usuários se seguem mutuamente, sendo o sentido de tal relação distinto, distinguindo-se o seguidor do seguido (este processo poderia ser descrito e otimizado em um Banco de Dados exclusivo para gráficos, mas por motivos de aprendizado será utilizado uma modelagem para Banco SQL).

2 Diagrama Modelo Entidade-Relacionamento



3 Diagrama Modelo Relacional



4 Preparação (PostgreSQL)

4.1 Criando Tabelas

4.1.1 Chats

Query SQL:

```
CREATE TABLE chats(
    id INTEGER GENERATED BY DEFAULT AS IDENTITY PRIMARY KEY,
    name VARCHAR(20) NOT NULL,
    description VARCHAR(50),
    photo_link VARCHAR(20),
    created_at TIMESTAMP DEFAULT NOW()
);
```

4.1.2 Usr

Query SQL:

```
CREATE TABLE usr (
    id INTEGER GENERATED BY DEFAULT AS IDENTITY PRIMARY KEY,
    first_name VARCHAR(30) NOT NULL,
    last_name VARCHAR(30) NOT NULL,
    email VARCHAR(30) NOT NULL,
    age SMALLINT CHECK(age >= 18) NOT NULL,
    phone VARCHAR(20) NOT NULL,
    photo_link VARCHAR(20),
    created_at TIMESTAMP DEFAULT NOW()
);
```

4.1.3 Posts

Query SQL:

```
CREATE TABLE posts (
```

```
    id INTEGER GENERATED BY DEFAULT AS IDENTITY PRIMARY KEY,  
  
    title VARCHAR(40) NOT NULL,  
    text TEXT NOT NULL,  
    likes INTEGER DEFAULT(0),  
  
    created_at TIMESTAMP DEFAULT NOW()  
);
```

4.1.4 usr_posts_chats

Query SQL:

```
CREATE TABLE usr_posts_chats(  
    id_usr INT REFERENCES usr(id),  
    id_post INT REFERENCES posts(id),  
    id_chats INT REFERENCES chats(id),  
    PRIMARY KEY(id_usr, id_post, id_chats)  
);
```

4.1.5 follow

Query SQL:

```
CREATE TABLE follow(  
    id_from INT REFERENCES usr(id),  
    id_to INT REFERENCES usr(id),  
  
    PRIMARY KEY(id_from, id_to)  
);
```

4.1.6 Anexes

Query SQL:

```
CREATE TABLE anexes (  
    id INT GENERATED BY DEFAULT AS IDENTITY,  
    id_post INT REFERENCES posts(id) NOT NULL,  
    file_link VARCHAR(50) NOT NULL,  
    mime_type VARCHAR(20) NOT NULL,  
    mime_subtype VARCHAR(20) NOT NULL
```

```
);
```

4.2 Inserindo Dados

4.2.1 Chats

Query SQL:

```
INSERT INTO chats(
    name,
    description
)
VALUES(
    'TECNOLOGIES',
    'A chat about tech'
),
(
    'Music',
    'Discussion about music'
),
(
    'Deutsch Sprechen',
    'A sehr schön über Deutsch Sprachen'
),
(
    'Daily life',
    'A chat about daily life'
),
(
    'Travelling',
    'A chat to share your experiences around the world'
);
```

4.2.2 Usr

Query SQL:

```
INSERT INTO usr (
    first_name,
    last_name,
    email,
    age,
```

```

    phone
)
VALUES (
    'Mateus Felipe',
    'Silveira Vieira Schreiner',
    '10723904@mackenzista.com',
    19,
    '11 979246-6876'
),
(
    'Rayana',
    'Pimentel',
    'ra@mackenzie.com',
    19,
    '11 979246-6876'
),
(
    'Cidinha',
    'Delgado',
    'cidinha@musica.com',
    60,
    '11 979248-6876'
),
(
    'Vitinho',
    'Roveri',
    'vitor@pianista.com',
    37,
    '11 979236-6876'
),
(
    'Karen',
    'Comanduli',
    'pio_x@musica.com',
    50,
    '11 979246-6876'
);

```

4.2.3 Posts

Query SQL:

```

INSERT INTO posts(
    title,

```

```

    text
)
VALUES(
    'What is free (as in freedom) software',
    'Specifically, free software means users have the four essential freedoms:
(0) to run the program,
(1) to study and change the program in source code form,
(2) to redistribute exact copies, and (3) to distribute modified versions.'
),
(
    'Why I like Linux',
    'I like linux because is free, is flexible and costumizable'
),
(
    'Best Classical Musics to Sing in a Chor',
    'There a lot of options. However Bach, Mozart and Beethoven are good choiches'
),
(
    'How theach music for children',
    'Fist is important a lot of patience and perceverance'
),
(
    'My day today',
    'I have a pretty good day today. I awakend and ...'
),
(
    'Was habe ich am letzten Donnerstag gemacht',
    'Hallo Freunde*innen, am Donnerstag bin ich nach Jundiaí gefahren und ...'
)
;

```

4.2.4 usr_posts_chats

Query SQL:

```

INSERT INTO usr_posts_chats(
    id_usr,
    id_post,
    id_chats
)
VALUES(1,1,1),(1,2,1),(5,3,2),(3,4,2),(2,5,4),(1,6,4);

```

4.2.5 follow

Query SQL:

```
INSERT INTO follow(
    id_from,
    id_to
)
VALUES(1,5), (2,1), (1,2), (4,5), (4,3);
```

4.2.6 Anexes

Query SQL:

```
INSERT INTO anexes(
    id_post,
    file_link,
    mime_type,
    mime_subtype
)
VALUES(
    1,
    'https://www.gnu.org/philosophy/philosophy.html.en',
    'html',
    'hyperlink'
),
(
    1,
    'https://www.gnu.org/graphics/agplv3-155x51.png',
    'image',
    'png'
),
(
    2,
    'https://www.kernel.org/theme/images/logos/tux.png',
    'image',
    'png'
),
(
    4,
    'https://freesvg.org/img/noun_project_928.png',
    'image',
    'png'
```

) ;

5 Testando com Dados

5.1 Tabela Chats - (Grupos)

Query SQL:

```
SELECT id, name, description, created_at FROM chats;
```

id	name	description	created_at
1	TECNOLOGIES	A chat about tech	2025-09-07 18:21:20.70906
2	Music	Discussion about music	2025-09-07 18:21:20.70906
3	Deutsch Sprechen	A sehr schön über Deutsch Sprachen	2025-09-07 18:21:20.70906
4	Daily life	A chat about daily life	2025-09-07 18:21:20.70906
5	Travelling	A chat to share your experiences around the world	2025-09-07 18:21:20.70906

5.2 Tabela Usr - (Usuários)

Query SQL:

```
SELECT id, first_name, last_name, email, age, phone FROM usr;
```

id	first_name	last_name	email	age	phone
1	Mateus Felipe	Silveira Vieira Schreiner	10723904@mackenzista.com	19	11 979246-6876
2	Rayana	Pimentel	ra@mackenzie.com	19	11 979246-6876
3	Cidinha	Delgado	cidinha@musica.com	60	11 979248-6876
4	Vitinho	Roveri	vitor@pianista.com	37	11 979236-6876
5	Karen	Comanduli	pio_x@musica.com	50	11 979246-6876

5.3 Tabela Posts - (Mensagens)

Query SQL:

```
SELECT id, title, SUBSTRING(text FROM 1 FOR 20) || '...' AS text__init, likes, created_at FROM posts;
```

id	title	text_init	likes	created_at
1	What is free (as in freedom) software	Specifically,...	0	2025-11-02 20:16:52.422684
2	Why I like Linux	I like linux ...	0	2025-11-02 20:16:52.422684
4	How theach music for children	Fist is impor...	0	2025-11-02 20:16:52.422684
5	My day today	I have a pret...	0	2025-11-02 20:16:52.422684
6	Was habe ich am letzten Donnerstag gemacht	Hallo Freunde...	0	2025-11-02 20:16:52.422684
3	Best Classical Musics to Sing in a Chor	There a lot o...	1	2025-11-02 20:16:52.422684

5.4 Tabela usr_posts_chats

(Relação: Usr <N> - Posts <N> - Chats <N>)

Query SQL:

```
SELECT id_usr, id_post, id_chats FROM usr_posts_chats;
```

id_usr	id_post	id_chats
1	1	1
1	2	1
5	3	2
3	4	2
2	5	4
1	6	4

```
SELECT posts.title, SUBSTRING(text FROM 1 FOR 13) || '...' AS text,
chats.name AS chat_name,
first_name, usr.id AS usr_id FROM usr

INNER JOIN usr_posts_chats ON usr.id = usr_posts_chats.id_usr
INNER JOIN posts ON posts.id = usr_posts_chats.id_post
INNER JOIN chats ON chats.id = usr_posts_chats.id_chats;
```

title	text	chat_name	first_name	usr_id
What is free (as in freedom) softwa...	Specifically,...	TECNOLOGIES	Mateus Felipe	1
Why I like Linux...	I like linux ...	TECNOLOGIES	Mateus Felipe	1
Best Classical Musics to Sing in a ...	There a lot o...	Music	Karen	5
How theach music for children...	Fist is impor...	Music	Cidinha	3
My day today...	I have a pret...	Daily life	Rayana	2
Was habe ich am letzten Donnerstag ...	Hallo Freunde...	Daily life	Mateus Felipe	1

5.5 Tabela follow

(Relação: Usr <N> - Usr <N> [auto-relação])

Query SQL:

```
SELECT id_from, id_to FROM follow;
```

id_from	id_to
1	5
2	1
1	2
4	5
4	3

```
SELECT usr_from.id AS id_from, follow.id_to,
usr_from.first_name AS name_from, usr_to.first_name AS name_to FROM usr usr_from
INNER JOIN follow ON usr_from.id = follow.id_from
INNER JOIN usr usr_to ON usr_to.id = follow.id_to;
```

1

¹Para essa query SQL foi necessário utilizar um nome intermediário, pois como há uma relação N:N entre a mesma entidade Usr, através da tabela de ligação follow, é preciso diferenciar as colunas em questão do usuário que segue (from) e do que é seguido (to), caso o contrário ocorreia que somente uma coluna resultante seria mostrada pois teriam o mesmo nome, apesar de possuirem valores diferentes

id_from	id_to	name_from	name_to
1	5	Mateus Felipe	Karen
2	1	Rayana	Mateus Felipe
1	2	Mateus Felipe	Rayana
4	5	Vitinho	Karen
4	3	Vitinho	Cidinha

5.6 Tabela Anexes (Relação: Anexes <N> - Posts <1>)

Query SQL:

```
SELECT id, id_post, file_link, mime_type, mime_subtype FROM anexes;
```

id	id_post	file_link	mime_type	mime_subtype
1	1	https://www.gnu.org/philosophy/philosophy.html.en	html	hyperlink
2	1	https://www.gnu.org/licenses/agplv3-155x51.png	image	png
3	2	https://www.kernel.org/theme/images/logos/tux.png	image	png
4	4	https://www.kernel.org/theme/images/logos/tux.png	image	png

```
SELECT anexes.id AS anexes__id, posts.id AS post__id, posts.title,
SUBSTRING(file_link FROM 1 FOR 15) || '...' AS file_link,
mime_type, mime_subtype FROM anexes
INNER JOIN posts ON anexes.id_post = posts.id;
```

anexes__id	post__id	title	file_link	mime_type	mime_subtype
1	1	What is ...	https://www.gnu...	html	hyperlink
2	1	What is ...	https://www.gnu...	image	png
3	2	Why I li...	https://www.ker...	image	png
4	4	How thea...	https://freesvg...	image	png

6 Full script

```
-- drop all tables from the last test
DROP TABLE IF EXISTS posts CASCADE;
DROP TABLE IF EXISTS usr CASCADE;
DROP TABLE IF EXISTS chats CASCADE;

DROP TABLE IF EXISTS usr_posts_chats;
DROP TABLE IF EXISTS follow;
DROP TABLE IF EXISTS anexes;

-- Re create tables

CREATE TABLE chats(
    id INTEGER GENERATED BY DEFAULT AS IDENTITY PRIMARY KEY,
    name VARCHAR(20) NOT NULL,
    description VARCHAR(50),
    photo_link VARCHAR(20),
    created_at TIMESTAMP DEFAULT NOW()
);

CREATE TABLE usr (
    id INTEGER GENERATED BY DEFAULT AS IDENTITY PRIMARY KEY,
    first_name VARCHAR(30) NOT NULL,
    last_name VARCHAR(30) NOT NULL,
    email VARCHAR(30) NOT NULL,
    age SMALLINT CHECK(age >= 18) NOT NULL,
    phone VARCHAR(20) NOT NULL,
    photo_link VARCHAR(20),
    created_at TIMESTAMP DEFAULT NOW()
);

CREATE TABLE posts (
    id INTEGER GENERATED BY DEFAULT AS IDENTITY PRIMARY KEY,
    title VARCHAR(45) NOT NULL,
    text TEXT NOT NULL,
    likes INTEGER DEFAULT(0),
    created_at TIMESTAMP DEFAULT NOW()
)
```

```

);

CREATE TABLE follow(
    id_from INT REFERENCES usr(id),
    id_to INT REFERENCES usr(id),
    PRIMARY KEY(id_from, id_to)
);

CREATE TABLE usr_posts_chats(
    id_usr INT REFERENCES usr(id),
    id_post INT REFERENCES posts(id),
    id_chats INT REFERENCES chats(id),
    PRIMARY KEY(id_usr, id_post, id_chats)
);

CREATE TABLE anexes (
    id INT GENERATED BY DEFAULT AS IDENTITY,
    id_post INT REFERENCES posts(id) NOT NULL,
    file_link VARCHAR(50) NOT NULL,
    mime_type VARCHAR(20) NOT NULL,
    mime_subtype VARCHAR(20) NOT NULL
);
;

-- insert dummy data

INSERT INTO chats(
    name,
    description
)
VALUES(
    'TECNOLOGIES',
    'A chat about tech'
),
(
    'Music',
    'Discussion about music'
),
(
    'Deutsch Sprechen',
    'A sehr schön über Deutsch Sprachen'
),
(

```

```

'Daily life',
'A chat about daily life'
),
(
'Travelling',
'A chat to share your experiences around the world'
);

INSERT INTO usr (
    first_name,
    last_name,
    email,
    age,
    phone
)
VALUES (
    'Mateus Felipe',
    'Silveira Vieira Schreiner',
    '10723904@mackenzista.com',
    19,
    '11 979246-6876'
),
(
    'Rayana',
    'Pimentel',
    'ra@mackenzista.com',
    19,
    '11 979246-6876'
),
(
    'Cidinha',
    'Delgado',
    'cidinha@musica.com',
    60,
    '11 979248-6876'
),
(
    'Vitinho',
    'Roveri',
    'vitor@pianista.com',
    37,
    '11 979236-6876'
),
(
    'Karen',

```

```

'Comanduli',
'pio_x@musica.com',
50,
'11 979246-6876'
);

INSERT INTO follow(
    id_from,
    id_to
)
VALUES(1,5), (2,1), (1,2), (4,5),(4,3);

INSERT INTO posts(
    title,
    text
)
VALUES(
    'What is free (as in freedom) software',
    'Specifically, free software means users have the four essential freedoms:
    (0) to run the program,
    (1) to study and change the program in source code form,
    (2) to redistribute exact copies, and (3) to distribute modified versions.'
),
(
    'Why I like Linux',
    'I like linux because is free, is flexible and costumizable'
),
(
    'Best Classical Musics to Sing in a Chor',
    'There a lot of options. However Bach, Mozart and Beethoven are good choiches'
),
(
    'How theach music for children',
    'Fist is important a lot of patience and perceverance'
),
(
    'My day today',
    'I have a pretty good day today. I awakend and ...'
),
(
    'Was habe ich am letzten Donnerstag gemacht',
    'Hallo Freunde*innen, am Donnerstag bin ich nach Jundiaí gefahren und ...'
)
;

```

```

INSERT INTO usr_posts_chats(
    id_usr,
    id_post,
    id_chats
)
VALUES(1,1,1),(1,2,1),(5,3,2),(3,4,2),(2,5,4),(1,6,4);

INSERT INTO anexes(
    id_post,
    file_link,
    mime_type,
    mime_subtype
)
VALUES(
    1,
    'https://www.gnu.org/philosophy/philosophy.html.en',
    'html',
    'hyperlink'
),
(
    1,
    'https://www.gnu.org/graphics/agplv3-155x51.png',
    'image',
    'png'
),
(
    2,
    'https://www.kernel.org/theme/images/logos/tux.png',
    'image',
    'png'
),
(
    4,
    'https://freesvg.org/img/noun_project_928.png',
    'image',
    'png'
),
(
    4,
    'imagem bem legal',
    'image',
    'png'
);
-- add like to see if works
UPDATE posts SET likes = likes + 1 WHERE id = 3;

```

```

SELECT id, name, description, created_at FROM chats; -- chats

SELECT id, first_name, last_name, email, age, phone FROM usr; --usr

SELECT id, title, SUBSTRING(text FROM 1 FOR 13) || '...' AS text__init, likes, created_at FROM posts; -- posts

-- usr_posts_chats
SELECT id_usr, id_post, id_chats FROM usr_posts_chats;

-- 3.4 3 Tabelas Inner join
SELECT posts.title, SUBSTRING(text FROM 1 FOR 13) || '...' AS text, chats.name AS chat__name, first_name, usr.id AS usr__id FROM usr
INNER JOIN usr_posts_chats ON usr.id = usr_posts_chats.id_usr
INNER JOIN posts ON posts.id = usr_posts_chats.id_post
INNER JOIN chats ON chats.id = usr_posts_chats.id_chats;

-- followers
SELECT id_from, id_to FROM follow;

SELECT usr_from.id AS id_from, follow.id_to, usr_from.first_name AS name_from, usr_to.first_name AS name_to FROM usr usr_from
INNER JOIN follow ON usr_from.id = follow.id_from
INNER JOIN usr usr_to ON usr_to.id = follow.id_to;

-- anexes
SELECT id, id_post, file_link, mime_type, mime_subtype FROM anexes;

SELECT anexes.id AS anexes__id, posts.id AS post__id, SUBSTRING(posts.title FROM 1 FOR 8) || '...' AS file_link, mime_type, mime_subtype FROM anexes
INNER JOIN posts ON anexes.id_post = posts.id;

/* Query Projeto 2 */

-- 3.1
SELECT COUNT(first_name) AS search_by_email FROM usr
WHERE email LIKE '%@mackenzista%';

/*
SELECT id_post, posts.title, COUNT(id_post) AS linked_anexes FROM anexes
INNER JOIN posts ON anexes.id_post = posts.id
WHERE mime_type = 'image' AND mime_subtype = 'png'
GROUP BY id_post, posts.title;

```

```

*/
-- 3.2
/*SELECT FOLLOW.first_name AS follow, IS_FOLLOWED.first_name FROM FOLLOW
INNER JOIN usr IS_FOLLOWED ON FOLLOW.id_from = IS_FOLLOWED.; */

SELECT usr_follow.first_name AS follows, usr_followed.first_name AS is_followed FROM follow
INNER JOIN usr usr_follow ON follow.id_from = usr_follow.id
INNER JOIN usr usr_followed ON usr_follow.id = usr_followed.id;

-- 3.3
SELECT posts.id, posts.title id_post, SUBSTRING(file_link FROM 1 FOR 13) || '...' AS file_l
RIGHT JOIN posts ON posts.id = anexes.id;

-- 3.4 3 Tabelas Inner join
SELECT posts.id, SUBSTRING(posts.title FROM 1 FOR 25) || '...' AS title, SUBSTRING(text FROM
chats.name AS chat__name,
first_name, usr.id AS usr__id FROM usr
INNER JOIN usr_posts_chats ON usr.id = usr_posts_chats.id_usr
INNER JOIN posts ON posts.id = usr_posts_chats.id_post
INNER JOIN chats ON chats.id = usr_posts_chats.id_chats;

```

Projeto 2 Queries SQL

7 SELECT Queries

7.1 SELECT with WHERE, LIKE and COUNT function

Query SQL:

```
-- 3.1
SELECT COUNT(first_name) AS search_by_email FROM usr
WHERE email LIKE '%@mackenzista%';
```

search_by_email
2

7.2 SELECT with INNER JOIN and GROUP BY

Query SQL:

```
-- 3.2
SELECT id_from, follows.first_name AS first_name_follows,
COUNT(id_to) AS following FROM follow
INNER JOIN usr follows ON id_from = follows.id
GROUP BY id_from, first_name;
```

id_from	first_name_follows	following
1	Mateus Felipe	2
4	Vitinho	2
2	Rayana	1

7.3 SELECT with RIGHT JOIN

Query SQL:

```
-- 3.3
SELECT posts.id, posts.title id_post, file_link, mime_type, mime_subtype FROM anexes
RIGHT JOIN posts ON posts.id = anexes.id;
```

id	id_post	file_link	mime_type	mime_subtype
1	What is free (as in freedom) software	https://www.g...	html	hyperlink
2	Why I like Linux	https://www.g...	image	png
3	Best Classical Musics to Sing in a Chor	https://www.k...	image	png
4	How theach music for children	https://frees...	image	png
5	My day today	imagem bem le...	image	png
6	Was habe ich am letzten Donnerstag gemacht	null	null	null

7.4 SELECT with INNER JOIN, 4 tables

Query SQL:

```
-- 3.4 3 Tabelas Inner join
SELECT posts.id, SUBSTRING(posts.title FROM 1 FOR 25) || '...' AS title,
SUBSTRING(text FROM 1 FOR 13) || '...' AS text,
chats.name AS chat__name,
first_name, usr.id AS usr__id FROM usr
```

```
INNER JOIN usr_posts_chats ON usr.id = usr_posts_chats.id_usr
INNER JOIN posts ON posts.id = usr_posts_chats.id_post
INNER JOIN chats ON chats.id = usr_posts_chats.id_chats;
```

id	title	text	chat_name	first_name	usr_id
1	What is free (as in freed...	Specifically,...	TECNOLOGIES	Mateus Felipe	1
2	Why I like Linux...	I like linux ...	TECNOLOGIES	Mateus Felipe	1
3	Best Classical Musics to ...	There a lot o...	Music	Karen	5
4	How theach music for chil...	Fist is impor...	Music	Cidinha	3
5	My day today...	I have a pret...	Daily life	Rayana	2
6	Was habe ich am letzten D...	Hallo Freunde...	Daily life	Mateus Felipe	1