# USER (id, email, first\_name, last\_name, password, date\_birth, permission, economic\_profile, date\_hour\_register)

PK(id)

UK(email)

Dom(id) = serial

Dom(email) = character varying (100) NOT NULL

Dom(first\_name) = character varing (20) NOT NULL

Dom(last\_name) = character varing (50) NOT NULL

Dom(password) = character varing (200) CK in (senha > 8) NOT NULL

Dom(date\_birth) = date CK in (data\_nasc < now()) NOT NULL

Dom(permission) = character varing (30) CK in (‘Administrator, ‘User’)

Dom(economic\_profile) = character varing (20) CK in ('Conservative', 'Moderate', 'Moderate-Aggressive', 'Aggressive')

Dom(date\_hour\_register) = timestamp without timezone DEFAULT now() NOT NULL

# NEWS (id, title, description, content, source, link\_image, link, date\_hour, locality, engagement)

PK(id)

UK(link)

Dom(id) = serial

Dom(title) = character varying (100) NOT NULL

Dom(description) = text

Dom(content) = text

Dom(source) = character varying (200) NOT NULL

Dom(link\_image) = text

Dom(link) = text NOT NULL

Dom(date\_hour) timestamp without time zone default (now()) NOT NULL

Dom(locality) = character varying (6) CK in (‘Brazil’, ‘World”) NOT NULL

Dom(engagement) = integer DEFAULT (0) CK in (engagement >= 0) NOT NULL

# USER\_LIKE\_NEWS (id, user\_id(user), news\_id(news), type\_like)

PK(id)

UK(user\_id, news\_id)

Dom(id) = serial

Dom(type\_like) = character varying (12) CK in (‘Like’, ‘Did Not Like’) NOT NULL

Dom(user\_id) = integer FK NOT NULL

Dom(news\_id) = integer FK NOT NULL

# COMMENT (id, date\_hour, content, user\_writer\_id(user), news\_id(news), comment\_father\_id(news))

PK(id)

UK(news\_id, user\_writer\_id)

Dom(id) = serial

Dom(date\_hour) = timestamp without timezone DEFAULT now() NOT NULL

Dom(content) = text NOT NULL

Dom(user\_writer\_id) = integer FK NOT NULL

Dom(news\_id) = integer FK NOT NULL

Dom(comment\_father\_id) = integer FK

# USER\_LIKE\_COMMENT (id, user\_id(user), comment\_id(comment), type\_like)

PK(id)

UK(user\_id, comment\_id)

Dom(id) = serial

Dom(type\_like) = character varying (12) CK in (‘Like’, ‘Did Not Like’) NOT NULL

Dom(comment\_id) = integer FK NOT NULL

Dom(user\_id) = integer FK NOT NULL

# WORD (id, name, description)

PK(id)

UK(name)

Dom(id) = serial

Dom(name) = character varying (50) NOT NULL

Dom(description) = text NOT NULL

# SOLICITATION (id, name, description, status, user\_id(user), word\_id(word))

PK(id)

Dom(id) = serial

Dom(name) = character varying (50) NOT NULL

Dom(description) = text NOT NULL

Dom(status) = character varying (11) CK in (‘Approved, ‘Disapproved’, ‘Waiting’) DEFAULT (‘Waiting’) NOT NULL

Dom(user\_id) = integer FK NOT NULL

Dom(word\_id) = integer FK

# WORD\_ACCESS (id, word\_id(word), date\_hour)

PK(id)

UK(date\_hour, word\_id)

Dom(id) = serial

Dom(date\_hour) = timestamp without timezone NOT NULL

Dom(word\_id) = integer FK NOT NULL

# NEWS\_BLACK\_LIST (id, name)

PK(id)

UK(name)

Dom(id) = serial

Dom(name) = character varying (50) unique NOT NULL

# INVESTMENT (id, name, description, group, period, yield)

PK(id)

UK(name)

Dom(id) = serial

Dom(name) = character varying (50) NOT NULL

Dom(description) = text NOT NULL

Dom(group) = character varying (50) NOT NULL

Dom(period) = integer NOT NULL

Dom(yield) = double precision NOT NULL

# SIMULATION (id, initial\_value, final\_value, date\_hour, user\_id(user), investment\_id(investment))

PK(id)

Dom(id) = serial

Dom(initial\_value) = money CK in (initial\_value > 0) NOT NULL

Dom(final\_value) = money NOT NULL

Dom(date\_hour) = timestamp without timezone NOT NULL

Dom(user\_id) = integer FK NOT NULL

Dom(investment\_id) = integer FK NOT NULL