# Rendu phase 2 IN513

DESMARRES Loic Création des tables, de vues, rédaction de triggers/procédures/fonctions, requêtes d'exemples, prompt engineering, debugging sur VM et écriture des scripts de méta-données.

GHARIB ALI BARURA Sama
Création des utilisateurs, de vues, rédaction de triggers/procédures/fonctions, utilisation de sql loader, rédaction du fichier de rendu et debugging sur VM.

BERRAHMANE Aissam
Requêtes d'exemples, relecture du fichier de rendu, correction du jeu de données, rédaction de procédures/fonctions.

## A/ Création du schéma de la base de données

```
-- Création de la table 
create table Vote(15), 
160post number(6), 
value Number(1) not null, 
primary key (pseudo, idpost), 
foreign key (pseudo) references Users(pseudo) on delete cascade, 
17 foreign key (sejost) references Post(idpost) on delete cascade, 
18 foreign key (sejost) references Post(idpost) on delete cascade
```

```
-- Création de la table
create table Users (
pseudo varchar(15) primary key,
name varchar(30),
surname varchar(30),
mail varchar(40) not null,
l'Paddress varchar(15) not null,
description varchar(160),
ban_end date,
ban_reason varchar(160));
```

## survey.sql

```
-- Création de la table create table Sevent table sevent considerate de la create table sevent subservé (s) primary key, question workanc/280) not null, idopot number(6), foreign key (idopot) references Post(idopot) on delete cascade, foreign key (idopot) references Post(idopot) on delete cascade.
```

### signal.sql

```
-- Création de la table
creare table Receive(
creare table Receive(
prince table Receive(
prince table Receive(
prince table Receive(
prince table table table table table
prince table table table
foreign key (pseudo) references Users(pseudo) on delete cascade
table tabl
```

## private message.sql

```
-- Création de la table 
create table PrivateMessage( 
idpm Number(6) primary key, 
message varchar(280) not null, 
date send date ont null, 
sender varchar(25), 
foreign key (sender) references Users(pseudo) on delete cascade 
in foreign key (sender) references Users(pseudo) on delete cascade
```

## post.sql

```
-- Création de la table
create table Post (
idpost nubber(s) primary key,
message varchar(289) mot null,
date post date not null,
room varchar(28),
building varchar(28),
building varchar(20),
oronign test (pseudo) references Users(pseudo) on delete cascade
joronign key (pseudo) references Users(pseudo) on delete cascade
```

```
-- Création de la table create table Options(
create table Options(
prisary key,
content vacchar(150) not null,
idsurvey Number(6),
foreign key (idsurvey) references Survey(idsurvey) on delete cascade
```

# hashtag.sql

```
-- Création de la table
create table Hashtag(
content varchar(140) primary key
```

```
-- Création de la table 
create table HasHashtag( 
idpost number(6), 
hashtag varchar(148) 
primary key (idpost, hashtag), 
foreign key (idpost) references Post(idpost) on delete cascade, 
foreign key (hashtag) references imshtag(content) on delete cascade
```

```
-- Création de la table
create table follow(
-- pseudo référence le pseudo d'un utilisateur
pseudo varchar(15),
-- follower référence le ou les utilisateur(s) qui suivent 'pseudo'
primary key (pseudo, follower),
foreign key (pseudo) préferences Users(pseudo) on delete cascade,
foreign key (foeudo) references Users(pseudo) on delete cascade
foreign key (follower) references Users(pseudo) on delete cascade)
 alter table Follow add constraint follow_self check (pseudo!=follower);
```

## draft.sql

```
-- Création de la table
create table Draft(
idoraft Number(5) primary key,
message varchar(280),
pseudo varchar(280),
speudo varchar(13),
state boblean,
foreign (ew) (pseudo) references Users(pseudo) on delete cascade
```

## answer.sql

```
-- Création de la table
create table Answer(
pseudo varchar(15),
idoption Number(6),
primary key (pseudo, idoption),
```

```
foreign key (pseudo) references Users(pseudo) on delete cascade,
  foreign key (idoption) references Options(idoption) on delete cascade);
```

## B/ Jeu de données

## prompts.txt

```
|Prompt n°1 :
|Memorise l'implémentation des tables en 5QL ci joint dans le script. Si tu as correctement mémorisé réponds moi "Ok l".
|*Joindre un script contenant la création des tables*
   Prompt n°2 :
Mémorise l'implémentation des triggers de la BDD ci joint dans le script. Si tu as correctement mémorisé réponds moi "Ok !".
"Joindre l'implémentation des triggers"
  Mémorise l'implémentation des droits des divers utilisateurs accédant à la BDD ci joint dans le script. Si tu as correctement mémorisé réponds moi "Ok !".
*Joindre l'implémentation des droits*
  Prompt n°4 :
Mémorise l'implémentation des vues de la BOO ci joint dans le script. Si tu as correctement mémorisé réponds moi "Ok !".
"Joindre l'implémentation des vues"
 Prompt n's:

Promp
 Prompt 10: 15 contenu de la table Post au format CSV, je veux que tu génère 40 tuples, le champ idpost indiquera simplement le numéro de n ième tuple à être généré. 
En message doût être une chaine de caractère comme les descriptions, mets des langues variées (Français, Espagnols, Anglais, Allemand, Italien), chacun d'entre eux doît être différent. 
Chaque message doût constituer une phrase cohérente. Parmais les d'utples, 25 d'entre ex auront 1 à 7 hashtage danne message (un hashtage correspond au symbole '8' suivit d'un mot et d'un espace). 
Le champs date_post sera rempli ovec une date au format 'AAAL-M-CD' (met bien les tirets et ce doît être une chaine de caractères). Parmis les 40 tuples, 25 d'entres eux contiendrons soit l'indication du champs 'room', soit l'indication
   Prompt n°8 :
Génère 45 tuples pour la table Options tu va te baser sur la table Survey.
Pour chaque tuple de la table survey tu vas générer entre 2 et 5 réponses cohérentes en fonction de la question posée dans chaque tuple de la table Survey
(Pour chaque tuple de la table Survey tu génère 2 à 5 tuples options dont l'idoption est juste un banal compteur comme idpost, le champs content lui doit répondre à la question du tuple auquel il se réfère avec idsurvey).
   Prompt n°9:
Ginère de Tuples pour la table PrivateMessage. Sachant que idpm est un compteur comme idpost, message doit être une phrase cohérente (comme un post mais sans Mashtags).
Les champs dates et sender doivent être cohérent de manière a simuler une veritable discussion.
Exemple : 'luis' envoie: 'Je t'aimes'. 'à 'juju' et 'juju' la FEROM' John John Sach La date du tuple contenant le message de "lulu" doit être antérieure à celle du tuple du message de "juju", car celle ci lui REPOMD.
In per comme toil et mois qui avons une conversation, ce message que j'écris aura une date antérieur à ta réponse. N'oublie pas que le champs "sender" correspond au pseudo d'un utilisateur présent dans la table Users. Enfin je voudrai que 10 utilisateurs soient absent de la table.
   Prompt n°10 :
Génère maintenant 80 tuples pour la table Receive qui simule qui à reçu chaque PrivateMessage, essaie de garder les discussion les plus cohérentes possible.
  (Prompt n°11 :
|Peuple la table Follow avec 80 tuples de telle sorte que les champs pseudo et follower soient toujours différent et qu'ils soient tous deux des pseudo de la table Users.
  Prompt n°12 :
Génère 35 tuples pour la table Draft. Le champs iddraft est fonctionne comme le champs idpost, le message doit être une phrase et le pseudo soit être inclut dans la table Users.
  |Prompt n*13 :
|Génère 80 tuples pour la table Vote. Sachant que pseudo est un pseudo de la table Users, idpost doit être compris dans la table Post et value prend soit la valeur "-1" ou la valeur "1". De plus 15 tuples de la table Post seront absent de la table Vote
  Prompt n°14 :
Génère 40 tuples pour la table Signal. Parmis ceux ci 31 tuples auront la même valeur de idpost. Fais en sorte que tous les pseudo soient unique
  Prompt n°15 :
Génère 80 tuples pour la table Answer (fait bien attention à ce que les clées étrangère existent dans leur tables respectives).
       nformations supplémentaires :
Modèle utilisé: Chat-GPtos
Modèle utilisé: Chat-GPtos
Les données générés ont été retravaillées pour répondre aux enjeux des contraintes d'intégrité de la BDD et d'Oracle
Pour retravailler les données nous avons utilisé Chat-GPT et Pythón.
   Répartition finale des tuples de chaque table :
  Users: 40
Qualquas exemples:
quirig29,Dohn,Doe,john.doe@example.com,192.168.1.1,"Utilisateur actif sur le réseau social.",2024-12-15,"Violation of guidelines"
satthjane,Jane,Satthjane:SaneSatthjane,SaneSatthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Jane,Satthjane,Satthjane,Satthjane,Satthjane,Satthjane,Satthjane,Satthjane,Satthjane,Satthjane,Satthjane,Satthjane,Satthjane,Satthjane,Satthjane,Satthjane,Satthjane,Satthjane,Satthjane,Satthjane,Satthjane,Satthjane,Satthjane,Satthjane,Satthjane,Satthjane,Satt
  Post: 40
Quelques exemples:
1, "The quick brown fox jumps over the lazy dog. Madventure Mnature",2024-03-15,,, "quirfy29"
2, "Un petit pas pour 1 homme, un grand pas pour 1 humanite. Mespace", 2024-07-22,, "saithjame"
3, "Caminante, no hay caming, se bace camino all ander. Mcultura", 2042-01-91, "Moosal", "Buildings", "mikej00"
 Survey: 35
Quelques exemples:
1,"Mhat is the best way to improve communication skills?",1
2,"How do you define success in your own life?",2
3,"What motivates you to wake up every morning?",3
   PrivateMessage : 80
Quelques exemples :
1, "I hope you are having a wonderful day.",2023-12-01 09:15:32,quirfy29
2,"Thank you! I am doing well. How about you?",2023-12-01 09:30:45,smithjane
3,"Old you see the latest updates on the project?",2023-12-01 11:05:12,mixej00
   Receive : 80
Quelques exemples :
1,smithjane
2,quirfy29
3,lindawil
 Follow: 79
Quelques exemples:
quirfy29,smithjane
mikej09,lindawil
brown_55,susie88
  Draft: 35
Quelques exemples:
1, 'The quick brown fox jumps over the lazy dog.",quirfy29
2,'A journey of a thousand miles begins with a single step.",smithjans,'Life is what happens when you're busy making other plans, "mikej09
  Vote : 33
Quelques exemples :
quirfy29,1,1
smithjane,2,-1
mikej09,3,1
  Signal : 40
Quelques exe
dorohills,5
kennysco,5
jadamsk,3
  Answer : 55
Quelques exemples
quirfv29.1
  smithjane,2
mikej09,3
  Hashtag : 40
Quelques exemples (tuples extraits des posts) :
adventure
nature
espace
HasHashtag : 42
Quelques exemples (tuples extraits des posts) :
adventure, 1
nature, 1
espace, 2
```

## insertions.sql

Insert into Users values('quirfy29','John','Doe','John',Ooe','John',Ooe','John',Ooe','John',Ooe','John',Ooe','John',Ooe','John',Ooe','John',Ooe','John',Ooe','John',Ooe','John',Ooe','John',Ooe','John',Ooe','John',Ooe','John',Ooe','John',Ooe','John',Ooe','John',Ooe',John',Ooe'

## vote.csv

```
pseudo, idpost, valute
quirty0,31,-1
santityiane,39,-1
mike/g0,16,1
llandawil,33,1
brown 55,30,1
susie88,7,1
```

```
Trury 38, 52, -1
many 38, 52, -1
many 38, 52, -1
many 38, 52, -1
many 48, 52, -1
many 58, 52,
```

### SQL\*Load

### follow

### control.txt

```
LOAD DATA INFILE '../follow.csv'
INTO TABLE Follow
FIELDS TEMINATED BY ','

(
pseudo,
follower
)
```

### draft

### control txt

## signal

### control.tx

```
LOND DATA INFILE '../signal.csv'
INTO TABLE Signal
FIELDS TERMINATED B' ',' OPTIONALLY ENCLOSED BY '"' TRAILING MULLCOLS
(
pseudo,
idpost
)
```

### receive

### control.t

## private\_messag

## control.txt

```
LOAD DATA INFILE '../private_message.csv'
INTO TABLE privatemessage.csv'
ENGLE privatemessage.csv

idops,
message.gsv 'optionally enclosed By '"' TRAILING MULCOLS

(idops,
message.dsv 'YYYY-MM-DO HH24-MI-55',
senter
```

## vot

## control.txt

```
LOAD DATA INFILE '../vote.csv'
INTO TABLE Vote
FILEDS ITEMURATE BY ',' TRAILING MULLCOLS
(
perudo,
idpost,
value
)
```

## answer

## control.txt

# option

## control.txt

```
LOAD DATA INFILE '../options.csv'
INTO TABLE Options
FIELDS ITEMINATED BY ', OPTIONALLY ENCLOSED BY '"'

(

foption,
content,
idsurvey
)
```

# survey

## control.txt

## post

## post .

```
LOAD DATA INFILE '../posts.csv'
INTO TABLE Post
FELEUS TERMINATED BY ',' OPTIONALLY ENCLOSED BY ''' TRAILING NULLCOLS

(
dosst,
message,
date_post date "YYYY-MP-DD",
room,
```

3 sur 13

```
building,
pseudo
```

```
LOAD DATA INFILE '../users.csv'
INTO TABLE Users
FIELDS TRAILING NULLCOLS
pseudo,
name,
surname,
mail,
IPaddrests
bam_resson
bam_resson
```

### load.sh

```
#!/bin/bash
```

```
# Peuple la base de donnée à grâce à SQL*Load.
selful userid-addin/banane control-user/control.txt log-user/log.txt bad-user/had.txt discard-user/discard.txt errors-0 skip-1 sqlldr userid-addin/banane control-user/control.txt log-user/log.txt bad-user/had.txt discard-pott/discard.txt errors-0 skip-1 sqlldr userid-addin/banane control-user/control.txt log-user/log.txt bad-user/had.txt discard-user/discard.txt errors-0 skip-1 sqlldr userid-addin/banane control-user/control.txt log-user/ylog.txt bad-user/ylog.txt bad-user/log-user/discard.txt errors-0 skip-1 sqlldr userid-addin/banane control-user/control.txt log-user/log.txt bad-user/log-txt bad-user/log-txt
```

```
poutdo, name, surmame, sail, IPaddress, description, han end han reason
upin 792 John, Don, John, Codegocample. Com. 192. 168. 1.3, "Willister actif sur le réseau social.", 2824-12-15, "violation of guidelines"
smithjane, Jame, Smith, jame, smithjeecample. com, 192. 168. 1.3, "Willister actif sur le réseau social.", 2824-12-15, "violation of guidelines"
smithjane, Jame, Smith, jame, smithjeecample. com, 192. 168. 1.4, "Picouvere de nouvelles fonctionnalités ici.", 2825-83-22, "violation of guidelines"
trown, 55, Robert, James, James, garciagecample. 2008, 192. 168. 1.4, "Indeposit of encourage de nouvelles fonctionnalités ici.", 2825-83-22, "violation of guidelines"
trown, 55, Robert, James, garciagecample. 2009, 192. 168. 1.10, "Engloying by time on this platfores",
an gardys, Hary, Davis, nary, daviségocample. 2009, 192. 168. 1.10, "Engloying by time on this platfores",
an gardys, Hary, Davis, nary, daviségocample. 2009, 192. 168. 1.10, "Engloying by time on this platfores",
an gardys, Hary, Davis, nary, daviségocample. 2009, 192. 168. 1.10, "Engloying by time on this platfores",
an gardys, Hary, Davis, nary, daviségocample. 2009, 192. 168. 1.10, "Engloying by time on this platfores",
an gardys, Hary, Davis, nary, daviségocample. 2009, 192. 168. 1.10, "Engloying by time on this platfores",
an gardys, Hary, Davis, nary, daviségocample. 2009, 192. 168. 1.10, "Engloying by time on this platfores",
an gardys, Hary, Davis, nary, daviségocample. 2009, 192. 168. 1.10, "Engloying by time on this platfores",
an gardys, Hary, Davis, nary, daviségocample. 2009, 192. 168. 1.12, "Davis on the conversation of guidelines"
richestys, Etchard, Typler, richard relayoregocample. 2009, 192. 168. 1.12, "Notification actific sur le réseau social.",
poseph650, Doos, homes, joseph. Homes, joseph.
```

```
Survey.csv

Iddurrey, question, idoost
1, "Ment's the best wey to improve communication skills?",1
2, "How of sy the best wey to improve communication skills?",1
3, "Host of sithets you to vake up every morning?",3
4, "Do you believe in the power of positive thinking?",3
4, "Do you believe in the power of positive thinking?",3
5, "How do you styl focused while working from bene?",5
7, "How yis physical fitness essential for mental health?",7
8, "How can one overcome the fear of sfallve?",8
9, "Host are your thoughts on artificial intelligence?",9
10, "Do you believe that history repeats treat?",12
112, "How can technology enhance educational systems?",12
113, "Ment does happiness seen to you personally?",13
14, "Do you prefer working alone or in a team?",14
15, "Ment are the key tratist of a good leader?",15
17, "Ment role does art play in our society?",17
17, "Ment role does art play in our society?",17
18, "How do you handle criticism constructively?",18
19, "Do you believe humans will live on Mens someday?",19
20, "Ment are the benefits of learning mee language?",28
21, "Ment is the most significant book you have read?",23
22, "Ment is the most significant book you have read?",23
23, "Ment are the impacts of social media on youth?", 28
29, "Ment are the impacts of social media on youth?", 28
29, "Ment are the impacts of social media on youth?", 28
29, "Ment are the impacts of social media on youth?", 28
29, "Ment are the impacts of social media on youth?", 28
29, "Ment are the impacts of social media on youth?", 28
29, "Ment are the impacts of social media on youth?", 28
29, "Ment are the impacts of social media on youth?", 28
29, "Ment are the impacts of social media on youth?", 28
29, "Ment are the impacts of social media on youth?", 28
29, "Ment are the impacts of social media on youth?", 28
29, "Ment are the impacts of social media on youth?", 28
29, "Ment are the impacts of social media on youth?", 28
29, "Ment are the impacts of social media on youth?", 28
29, "Ment are the impacts of social media on y
```

## signal.csv

```
41, smithjane

42, quirfy29

43, lindawil

44, mikej09

45, susie88

46, brown 55

47, maryd8

48, furyjams

49, pattie23

50, m mart

51, barbwhite

52, david34mo

53, karenanna

54, richeatay

55, nancyj10

56, joseph56t

57, lisa 1h
63,lindawil
64,mikej09
65,susie88
66,brown_55
67,maryd8
68,furyjams
69,pattie23
70,m_mart
71,barbwhite
72,david34mo
73,karenanna
```

# posts.csv

```
1. The quick brown fox jumps over the lary dog. Badventure Bnature", 2024-83-15,, "quirfy22"
2, "un petit pas pour l homee, un grand pas pour l humanite. Bespace", 2024-07-22,, "saithjace"
3, "Caminante, no hay camino, se hace camino al andar. Roillura", 2024-08-13, "Rooma", "Bulldingx", "mikej80"
4, "Ein Kleiner Schritt fur einen Menschen, ein riesiger sprung fur die Menschheit.", 2024-08-09, "Room8", "lindawil"
5, "La vita e Bells famore Fänglija", 2024-08-15, "Poomus" 5"
6, "Exploring the wonders of the universe. 8science", 2024-06-30, "Bulldingx", "susie88"
```

```
7, "Voyagez a travers le temps et l'espace. Haventure Rexploration", 2024-09-09, "Boonc", "Buildingz", "furyjams" 8, "Das teben ist wie ein Fahrrad. Du musst in Bewegung bleiben, um die Balance zu halten.", 2024-11-22,, "maryds" 9, "Anor omnia vincit. sphilosophia", 2024-12-01,, "mart" 11, "A smoth sea newer made a stilled sailor. metivation", 2024-02-18-15, "Roomb", "pattie23" 11, "A smoth sea newer made a stilled sailor. metivation", 2024-02-18-15, "Mordiamo" 11, "A smoth sea newer made a stilled sailor. metivation", 2024-02-18-15, "Mordiamo" 11, "A smoth sea newer made a stilled sailor. metivation", 2024-02-18-15, "Mordiamo" 11, "A smoth sea newer made a stilled sailor. metivation", 2024-02-18-15, "Mordiamo" 11, "Mordiamo" 11, "Mordiamo 11, "Mor
```

```
Idoption, content, idsurvey
1, "Spend more time communicating with others.", 1
2, "Practica extive listening daily.", 1
4, "Define what happiness means to you.", 2
4, "Define what happiness means to you.", 2
5, "Focus on what inspires you every day.", 3
6, "Think about your passions and goals.", 3
7, "Maintain a positive attitude and saile.", "4
9, "Create a dedicated workspace at home.", 5
11, "Understand basic budgeting principles.", 6
12, "Learn has to sudgeting principles.", 6
13, "Learn has to sudgeting principles.", 6
13, "Learn has to invest your savings wisely.", 6, 12
14, "Adopt a balanced diet and sindfulness.", 7
15, "Take sail, calculated risks.", 8
16, "Seek advice from a mentro or coach.", 8
18, "Consider extinction sind evelopment.", 9
19, "Analyze historical patterns carefully.", 10
19, "Analyze historical patterns carefully.", 10
19, "Reflect on lessons learned from the past.", 11
22, "Support remeable energy projects worldwide.", 11
22, "Incorporate technology in lesson planning.", 12
24, "Provide students with interactive learning tools.", 12
25, "Fursue hobbies that bring you joy.", 31
27, "Collaborate with peers for better results.", 14
29, "Stepy adaptable to different situations.", 13
29, "Stepy adaptable to different situations.", 13
29, "Stepy adaptable to different situations.", 13
21, "Exchange young artist through education.", 17
24, "Encorage young artist through education.", 17
28, "Support premable remains with your interests.", 16
29, "Stepy informed about new scientific discoveries.", 19
30, "Support public finding for nuseums and art.", 17
34, "Encorage young artist through education.", 17
37, "Stay informed about new scientific discoveries.", 19
39, "Support public finding for nuseums and art.", 17
34, "Encorage young artist through education.", 17
30, "First activities that align with your interests.", 16
32, "Experiment with creative pursuities with peers.", 19
39, "Support public finding for nuseums and art.", 17
30, "First activities that peers, 19
30, "Support public find
```

pseudo, follower quirfy29, smithjane mikej89, lindawil brown\_55, susie88 furyjams, maryd8 m\_mart, pattie23 david34mo, barbwhite richeatay, karenanna joseph56t, nancyjl0 charlttc, lisa lh cmartinez, clarks danl33, walkerem phal192, angieall phall92,angieall keviny25.dherna phall92, angleall keviny25, dherong test some control of the contr

georgem15,smithjane

### draft.csv

```
doubtf, message pseudo

1. The quick brome fox jumps over the lary dog.",quirfy29

2. The South brome fox jumps over the lary dog.",quirfy29

2. The South brome fox jumps over the lary dog.",quirfy29

3. The first brome fox jumps over the lary dog.",quirfy29

4. To be yourself in a world that is constantly trying to make you something else is the greatest accomplishment.",

5. The the sidel of every difficulty lies opportunity. "horworld for the greatest accomplishment.",

5. The first was the belong to those who believe in the beauty of their oreams.", maryd8

7. Too not watch the clock. Do what it does, keep going. "furyjams

8. The future belongs to those who believe in the beauty of their oreams.", maryd8

9. The best way to predict the future is to invent it.", mg mart

10. The large the blongs to those who believe in the beauty of their oreams.", maryd8

9. The best way to predict the future is to invent it.", mg mart

11. The large list is the large the days count.", partice23

12. The six really simple, but we insist on making it complicated. "harbhite

13. The only list to our realization of toomorow will be our doubts of today.", richestay

14. The way to get started is to quit talking and begin doing.", karenanna

15. The large seems impossible until it's dome. "josephost"

17. Too what you can, with what you have, where you are. "josephost"

17. Too what you can, with what you have, where you are. "charitte

18. "Am and who drares to waste one hour of the has not discovered the value of life.", lisa_lh

19. "hoppiness is not something ready made. It comes from your own actions.", cmartinez

20. "Too're will be an accepted to the side of fear.", danl23

21. The propose of our lives its to be happy.", dhernz

22. "Mant you get by achieving your goal is not as important as what you become by achieving your goals." phall92

24. Too not go where the path may lead, go instead where there is no path and leave a trail.", kevinyz5

25. The purpose of our lives its to be happy.", dhernz

26. The minuse of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            mething else is the greatest accomplishment.".lindawil
```

### answer.csv

```
walkerem,59
phal192,60
angieal1,61
keviny25,62
dhernz,63
markkings,64
mwright45,65
donaldlop,66
dorohills,67
kennysco,68
```

# C/ Manipulation des données

# moderator

```
-- R28 : Quelle est l'adresse IP de pseudo ?
create on replace function get_IPadress(TARGET_USER in varchar2)
return varchar2;
RESULT varchar2(15) := '';
begin
        gin
select IPaddress into RESULT
from Users
where pseudo = TARGET_USER;
```

```
-- Requêtes concernant les Posts
    R8 : Quels sont les récents posts de [TARGET_USER] ?
select *
from admin.Post
where pseudo = 'lulu'
order by date_post desc;
    - R9 : Quels sont les post émis depuis [BUILDING] et/ou [ROOM] ?
select *
from admin.Post
where building = 'Fermat'
and room = 'Amphi 3'
order by date_post desc;
-- RIO : Quels sont les posts postés entre [DATE_START] et [DATE_END] ? select * from admin.Post
```

```
The property of the property o
```

### hashtag.sq

```
List 1 galls offiliations on thisse in hondrag or bowness

From Action March

1 sept 1
```

## message\_thread.sql

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```
where R.1dpm = PM.idpm
and (
(R.pseudo = lower(user) and PM.sender = TARGET_USER)
or (R.pseudo = TARGET_USER and PM.sender = lower(user)) \( \),
      group by R.idpm;
      select count(*) into total_send
from Receive R, PrivateMessage PM
where R.idom = PM.idom
and R.pseudo = TARGET_USER and PM.sender = lower(user)
group by R.idom;
    if total_messages < 1 then
return 0;
else
else -,
return (total_send*100)/total_messages;
end if;
end;
create or replace function new_id_private_message return number AS
   RSSULT number(6);
begin extent Nut(max(idpm)+1, 0) into RESULT
   from PrivateWessage;
    eate or replace procedure send_message(esg_IN varchar, recipients_csv_IN varchar) as 

new_id_number(6) = := new_id_private_message; 

field_index_number(6) := 0; 

current varchar(1) := ''; 

buffer varchar(6) := '';
 egin
      insert into PrivateMessage values (new_id, msg, current_date, lower(user));
      -- Pour chaque champ du CSV, on insert dans Receive.
             -- Fin d'un champ
if current = ',' then
dbms_output.put_line('new receive : {'||new_id||','||buffer||'}');
                     insert into Receive values (new_id, buffer);
buffer := '';
            buffer := '';
field_index := field_index + 1;
else
buffer := buffer || current;
end if;
    dbms_output.put_line('buffer : '||buffer);
    - On envois le dernier champ si le CSV de se finit pas par ','
    if lengt(buffer) > 0 then
    if lengt(buffer) > 0 then
    insert into Receive values (new_id, buffer);
    insert into Receive values (new_id, buffer);
```

### draft.sql

```
-- R24 : Quel est le brouillon le plus récent que j'ai rédigé ?
select message
from admin.NyDraft
fetch first 1 rows only;
-- R25 : Quel est le draft (brouillon) le plus long que j'ai rédigé ? select message from addin.NyOraft where length(message) = (select max(length(message)) from admin.NyOraft);
```

```
-- Renvoie 1 si le dernier post de l'utilisateur actuel date
-- d'au moins deux secondes, 0 sinon.
create or replace function is, post codioun_up return boolean as
aux, date date := current_date;
delay number := 0.0;
post_count number := 0;
pest_
               -- S'il n'y a aucun post, il n'y a pas de cooldown.
select
               count(idpost) into post_count
from Post;
              if post_count = 0 then
return TRUE;
end if;
            select
max(date_post) into max_date
from
Post
where
upper(pseudo) = user;
              delay := current_date - max_date;
-- Conversion en secondes
delay := delay * 24 * 3600;
    return FALSE;
end if;
   if occurences = 0 then
   insert into Hashtag values (hashtag);
end if;
       insert into HasHashtag values (post, hashtag);
    -- Insère tous les mots précédés par un '#' dans la table
-- Hashtag.
-- Hasht
            -- Parsing:
-- - Etat 0: Recherche du caractère '#'
-- - Etat 1: Récupération du hashtag dans buffer
                                             else state := 0;

else buffer := buffer || c;

end if;

end loop;

end loop;
    create or replace function new_idpost return number AS
RESULT number(6);
   begin
    select NVL(max(idpost)+1, θ) into RESULT
    from Post;
```

```
rest or replace frontion on_discrept return number as
FRONT restance;

**SERVIC AND COLUMN TEACH TO THE STREET

**TEACH TO THE STREET

**COLUMN TEACH TEACH
```

### users.sql

```
- 1 - Oalt out that this does buildings willings are [Taboutt 10000] ;
where dividing Majority
where dividing Majority
where dividing Majority
where findings A plants
where f
```

## survey.sql

```
-- Procedure pour ajouter un nouveau Survey
(create or replace procedure add_survey(QUESIION in varchar, ID_POST in number) as
begin

Insert into Survey values(new_idsurvey, QUESTION, ID_POST);

ond;

-- Procedure pour ajouter une nouvelle Option à un Survey
(create or replace procedure add_option(CONTENT in varchar, ID_SURVEY in number) as
begin

Insert into Options values(new_idoption, CONTENT, ID_SURVEY);

ord;

-- Procedure pour répondre a un Survey
(create or replace procedure add_minuer(ID_OPTION) in number) as
begin

sert into Answer values(Iower(user), ID_OPTION);

end;

-- R19 ; Quels sont les sondages contenant [mot] dans sa question ?

select

-- R20 ; Quels sont les sondages contenant [mot] dans ces options ?
```

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### admin

### admin\_procedures.sql

```
create or replace function mail_unicity(new_mail in varchar) return number as
begingth number(): 0 or sealt
from Users
select count() into result
from Users
where mail: new_mail;
if re not then
return 0;
end f;

-- Procédure permettant l'ajout d'un nouveau post
create or replace procedure add_user(pseudo IN varchar, mail IN varchar, password in VARCHAR) as
teget
mail_unicity(mail) = 0 then
insert into Users values (pseudo, null, null, mail, 'unknown', null, null);
execute immediate 'create user '|| pseudo|| identified by '|| password;
execute immediate 'create user '|| pseudo|| identified by '|| password;
execute immediate 'create user '|| pseudo|| identified by '|| password;
execute immediate 'create user '|| pseudo|| identified by '|| password;
end off;
end;
```

## D/ Vues et droits

## my\_messages.sql

```
create or replace view MyMessages as select
pm. sender as sender, r.pseudo as recipient, pm.message as message,
pm.date_sende as date_send
from
voluteMessage pm, Receive r
where
pm.idpm = r.idpm and
(pm.sender = lower(user) or r.pseudo = lower(user));
grant select, update, delete on MyMessages to client, moderator;
```

# my\_draft.sql

```
-- Procédure créant ou remplacant la vue MyGraft
-- Vue modélisant les broulions (drafts) de l'utilsateur
create or replace view MyGraft as
select *
from Draft
where pseudo = lower(user)
order by iddraft desc;
grant select, update, delete on MyGraft to client, moderator;
```

# my\_data.sql

```
create or replace view MyOsta as
select select where pseudo = lower(user);
grant select, update on MyOsta to client, moderator;
```

## grades.sql

```
-- Procedure ordant ou rentacent la vou Inflamence
-- des cilisteres en fenction de leur rank
-- des cilisteres en fenction de leur rank
-- grant select on Goat to client, moderator;

-- grant select on Goat to cl
```

## user\_ranks.sql

```
-- Procédure créatir ou remplacant la vue Mank
-- Vue modéliant le rank de tous les utilisateurs

create or replace view Rank as
select Dest. pseudo as pseudo, sum(Yote.value) as rank
where Post.ighost = Vote.ighost
group by Post.idpost, post.pseudo
order by rank desc;
grant select on Rank to client, moderator;
```

### urgent\_signal.sql

```
-- Procédure créant au remplacant la vue UrgentSignal
-- Vue modelisant les posts signalés plus de 30 fois
create or replace view UrgentSignal as
select idopost
from Signal
group by idopost
having count(*) >> 30;
grant select on UrgentSignal to moderator;
```

## top\_user.sql

```
-- Procédure créat ou repolacent la vus Toptiser
-- Vue modélisant le classement des utilisateurs les plus suivis

create on replace view Toptiser as
select Users, pseudo, count(*) as nb_followers
from Users left foin Follow on Users, pseudos
group by Users, pseudo
order by nb_followers desc;
grant select on Toptiser to client, moderator;
```

### tendance.sq

```
-- Procédure créant ou remplaçant la vue Tendance
-- Vue modélisant les haistags (tendance) des 7 derniers jours
create or replace view Tendance as
select HH. haistag as haistag, count(HH.idpost) as nb_posts
from Hasiahstafig HM, Post P
where P.idpost-HH.idpost and P.date_post><(SYSDATE-7)
group by HH.haistag
order by nb_posts desc
fetch first IS rows only;
grant select on Tendance to client, moderator;
```

### sanctions.sq

```
-- Procédure créate du resplacent la vue Sanctions
-- Vue modélisant le temps restant avant la fin du banissement des utilisateurs bannis
create or replace view Sanctions as
select pseudo, ban_end - SYSOATE as time_left, ban_reason
where SYSOATE < ban_end;
grant select on Sanctions to client, moderator;
```

## rank\_post.sql

```
-- Procédure créant ou remplacant la vue RankPost
-- Vue modélisant les statistiques d'un post donné
create or replace view RankPost as
select sum(value) as rank,
sum(case when Vote-value » ê then ê else î end) as downvotes,
sum(case when Vote-value » ê then î else ê end) as upvotes
reproup by idopost;
grant select on RankPost to client, moderator;
```

## feed.sql

```
-- Vue modélisant le fil d'actualité de l'utilisateur

create on replace view Fred as
salect "from Bosta

where spesudo in (select spesudo from Follow where follower=lower(user))
order by date_post desc;

grant select on Feed to client, moderator;
```

## client\_execute.sql

```
-- Draits d'esécution des Fonctions / Procédures utilisées par le role client :

-- attivitée :

-- attivitée :

grant execute on signet concison pur to client, moderator;

grant execute on add_habitage to client, moderator;

grant execute on me_isfavire to client, moderator;

grant execute on add_past to client, moderator;

grant execute on add_past to client, moderator;

grant execute on add_past to client, moderator;

grant execute on add_vate to client, moderator;

grant execute on me_isfavires to client, moderator;

grant execute on me_isfavires to client, moderator;

grant execute on get_postnon_habitage to client, moderator;

grant execute on get_postnon_making to client, moderator;

grant execute on get_postnon_making to client, moderator;

grant execute on me_isfavires resigne to client, moderator;

grant execute on me_isfavires resigne to client, moderator;

grant execute on me_isfavires resigne to client, moderator;

grant execute on add_survey to client, moderator;

grant execute on grant-past_past_past_past_client, moderator;

grant execute on add_survey to client, moderator;

grant execute on add_survey to client, moderator;

grant execute on add_survey to client, moderator;
```

## moderator.sql

```
remain role moderator;
grant create session to moderator;
grant create session to moderator;
grant create view to moderator;
grant create view to moderator;
grant select on admin. add user to moderator;
grant select on Post, Survey, Options, Follow, Vote, Hashtag, HasHashtag to moderator;
-- Moderateurs test, normalement les moderateurs doivent
-- terc creas par l'admin.
create user modol identified by peche;
grant moderator to modol;
```

## client.sql

```
-- /!\ Attention ! On ne peut pas donner les droits sur les
-- procédures ici car les utilisateurs sont crées avant
-- la precédures duns l'oute d'execution specifé dus
-- la spracédures duns l'oute d'execution specifé dus
-- la RADME nd .3 els si déplace à la fin de "rights/client_procedures.sql"

create role client;
grant create vels client;
grant create vels to client;
grant create vels to client;
-- Droits de sélection sur certaines tables :
-- grant sealect on Dost to client, noderator;
```

```
grant select on Survey to client, moderator; grant select on Options to client, moderator; grant select on daswer to client, moderator; grant select on fallow to client, moderator; grant select on Vote to client, moderator; grant select on Wote to client, moderator; grant select on Hashfast to client, moderator; grant select on Hashfast to client, moderator;
-- Utilisateurs test, normalement les utilisateurs doivent

-- être crées par l'admin.

call add user('jean', 'jean@jean.fr', 'pasteque');

call add_user('lola', 'lola@lola.fr', 'kiwi');
```

```
- Administrateur de la BD
- C'est lui qui crée les tables, les vues, les triggers, etc.
create user admin identified by banane; grant create session to admin; grant create session to admin; grant unimited tablespace to admin; grant create table to admin; grant create procedure to admin; grant create trigger to admin; grant create trigger to admin; grant create view to admin; grant grant arm and process to admin; grant grant arm arm and process to admin; grant grant
```

# E/ Intégrité des données

## user activities.sql

```
-- On empêche les utilisateur de voter pour leurs propres posts
create or replace trigger vote_self before insert on Vote for each row
 create or replace trigger vote_self before insert on Vote for each row
declare
POST_PSEUDO varchar2(15);
begin
select pseudo into POST_PSEUDO
from PoST
where idpost = :new.idpost;
if :new.pseudo = POST_PSEUDO
from PoST
where idpost = :new.idpost;
if :new.pseudo = POST_PSEUDO
then
dist_APPLICATION_ERROR(-2009R), '' || :new.pseudo || ' tried to vote his own post');
end
end
if;
end
              On empêche les utilisateurs de s'envoyer des messages à eux même
eate or replace trigger recipient_self before insert on Receive for each row
        reate or representation of the colore SENDER varichar2(15); RECIPIENT number(5);
              if SENDER = :new.pseudo then
select count(*) into RECIPIENT
from Receive
where idpm = :new.idpm
group by pseudo;
    by vope by pseudo;

if RECIPIENT = 0 then
delete from PrivateMessage where idpm = :new.idpm;
RAISE_APPLICATION_ERROR(-20030, '' || :new.pseudo || ' tried to send a private message to himself.');
end if;
end if;
end;
           - Un draft est posté, puis supprimé
reate or replace trigger post_draft after update of state on Draft for each row
   create or replace trigger post_draft after update of st:
begin
  if :new.state = TRUE then
    ad_post(:new.message, null, null);
    delete from Draft where iddraft = :new.iddraft;
    else
 else delete from Draft where iddraft = :new.iddraft; end if; end;
           - On ajoute un utilisateur de la BD à chaque insertion dans la table Users
reate or replace trigger user_creation before insert on Users for each row
   declare
PRAGMA AUTONOMOUS_TRANSACTION;
 PRADOR NO. ACCEPTANCE OF THE PROPERTY OF THE P
             Insertion automatique des hashtags d'un post 
eate or replace trigger extract_hashtags after insert on Post for each row
 create or replace trigger extraction begin admin.parse_hashtags(:new.idpost, :new.message);
```

```
- Gère les droits de l'utilisateur en fonction de l'état de son banissement create or replace trigger ban_user after update of ban_end on Users for each row begin
```

# F/ Méta-données

```
-- Renvide la liste de tous les utilisateurs de la BDD select username from all users where username not in (
'SYS', SYSTEM', 'OUTLN', 'OBSIMP', 'MONT_VIEN', 'APPQOSSYS', 
'AUDSYS', 'CTRSYS', 'UNSYS', 'FILOR, FILES', 'MODATA', 'MOSYS', 
'OBBOATA', 'OBDSYS', 'AUS, 'MONSY', 'LEASSY', 'OLARSYS', 'OLARSYS', 
'OBBOATA', 'OBDSYS', 'AUS, 'MONSY', 'LEASSY', 'OLARSYS', 'OLARSYS', 'OBSIS'S', 
'OBBOATA', 'OBDSYS', 'AUS, 'MONSY', 'ENDATE, LAGE, 'MOTHULUSER', 'WECTS', 
'STATIAL, MES, AUMINUSE', 'SHATIAL, MES, AUMINUSE', 'YECTS', 
'GENCATUSER', 'GONGSER', 'REMOTE S, OFFIDULER, AGENT', 'SYSSAG', 
'KSSMLE', 'O'OWNEST', 'ISBORISES', 'O'ORDULER, AGENT', 'SYSSAG', 'GOSYAG', 'SYSSAGNES', 'O'ORDULER, AGENT', 'SYSGAG', 'GOSYAG', 'SYSGAMP', 'SYSSAGNES', 'O'ORDULER, AGENT', 'SYSGAG', 'GOSYAG', 'SYSGAMP', 'SYSSAGNES', 'O'ORDULER, AGENT', 'SYSGAG', 'GOSYAG', 'SYSGAMP', 'S
                         order by username;
```

## liste ora trigger.sql

```
from user_triggers
order by table_name, trigger_name;
```

## $liste\_ora\_constraints.sql$

```
ucc.column_name,
ucc.position,
uc.search_condition as constraint_body
from user_constraints uc left_join user_cons_columns ucc
from user_constraints uc left_join user_cons_columns ucc
on uc.constraint_name = ucc.constraint_name and uc.table_name
on uc.constraint_name = ucc.constraint_name and uc.table_name
on uc.constraint_name = ucc.constraint_name and uc.table_name
order by uc.table_name, uc.constraint_type, uc.constraint_name;
```

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