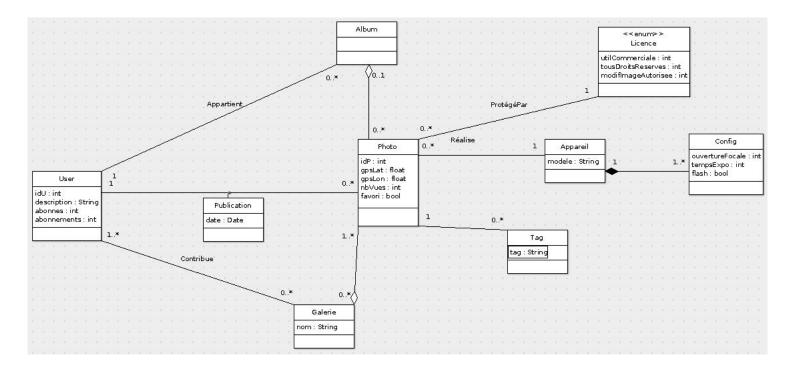
$\mbox{HMIN106M}$ - Bases de données Avancé $\mbox{TP1}$ et $\mbox{TP2}$

Meryll Essig Tamara Rocacher

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1 TP1

1.1 Question 2:



1.2 QUESTION 4:

1.2.1

Photo(idP: int, date: Date, gpsLat: float, gpsLon: float, nbVues: int, idUser: int, idAlbum: int,

idLicence:int, idAppareil:int)

Tag(idTag : int, tag : String, idPhoto : int)

Galerie(idG : int, nom : String)

photo galerie(idPhoto: int, idGalerie: int)

User(idU: int, description: String, preferee: bool, abonnes: int, abonnements: int)

 $user_galerie(idUser:int, idGalerie:int)$

Appareil(idAppareil: int, modeleAppareil: String)

Config(idConfig: int, ouvertureFocale: int, tempsExpo: int, flash: bool, idAppareil: int)

 $\operatorname{Licence}(\operatorname{\underline{idLicence}}:\operatorname{\underline{int}},\operatorname{licence}:\operatorname{\underline{enum}})$

1.2.2

Notre modèle ne paraît violer ni la 2NF ni la 3NF.

1.2.3

a- violation 2NF : déplacer gpsLat de Photo en attribut de Photo_galerie : gpsLat ne dépendra que d'une partie de la clef primaire (ipPhoto).

b- violation 3NF: deplacer l'attribut abonnés de User dans Photo: Abonnes dependra donc de la clef etrangere idUser, qui ne fait pas partie de la clef primaire.

QUESTION 5: 1.3

```
1.3.1 a)
```

```
SELECT * FROM Photo WHERE gpsLat = 43.62505 AND gpsLon = 3.862038;
SELECT * FROM User, Appareil WHERE User.idAppareil = Appareil.idAppareil AND description = "fan de pingouins"
```

AND modeleAppareil = "KODAC Pingouin"; // Tous les Utilisateurs fan de pingouins possdant un Appareil " KODAC Pingouin"

SELECT COUNT(*) FROM User, Galerie, user_galerie WHERE User.idU = user_galerie.idUser AND user_galerie. idGalerie = Galerie.idGalerie AND Galerie.nom = "Montpellier" GROUP BY idU; // Compte le nombre d' utilisateurs ayant une galerie nomme "Montpellier"

1.3.2b)

SELECT idP FROM Photo, Licence WHERE Licence.idP = Photo.idP AND Licence.licence = "Tous droits rservs " AND nbV > (SELECT AVG(nbVues) FROM Photo);

1.3.3 **c**)

SELECT idUser FROM User, Photo, DUAL WHERE User.idU = Photo.idP AND trunc(sysdate)-to_date(date, 'dd/mm/ yyyy') DAYS > 365*5 GROUP BY idUser;

1.3.4 d)

SELECT COUNT(idGalerie) FROM Photo, photo_galerie WHERE Photo.idP = photo_galerie.idPhoto GROUP BY idPhoto ORDER BY COUNT(idGalerie) DESC LIMIT 5;

1.3.5 **e**)

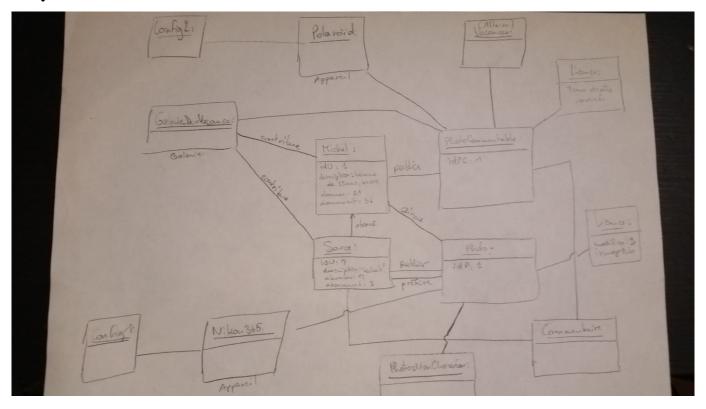
```
SELECT idUser FROM User, Galerie, Photo, photo_galerie, Album WHERE
        User.idUser = Photo.idUser AND
2
        Photo.idP = photo_galerie.idPhoto AND
```

photo_galerie.idGalerie = Galerie.idGalerie AND 4

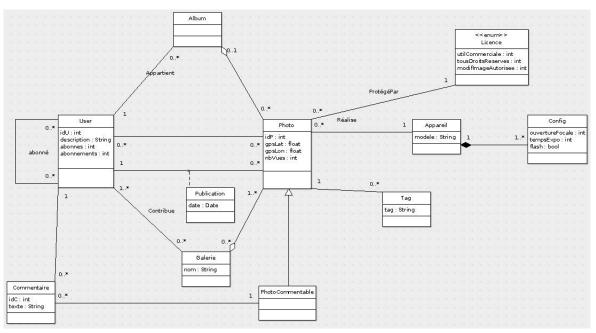
Photo.idAlbum = Album.idAlbum AND 5 Galerie.nom = Album.nom;

2 TP2

2.1 Question 1:



2.2 Question 2:



2.3 Question 4:

Le modèle relationnel reprend le même que celui du TP1, avec les ajouts suivants :

 $user_photo_aime(\mathit{idUser}:\mathit{int},\,\mathit{idPhoto}:\mathit{int})$

abonneA(idUser1:int, idUser2:int)

 $commentaire(\underline{idCommentaire:int},\ texte: String,\ date: Date,\ \mathit{idUser:int})$

 $PhotoCommentable(\underline{idPC:int},\,date:Date,\,gpsLat:float,\,gpsLon:float,\,nbVues:int,\,\mathit{idUser:int},\,\mathit{idAlbum:int},$

idLicence : int, idAppareil : int)