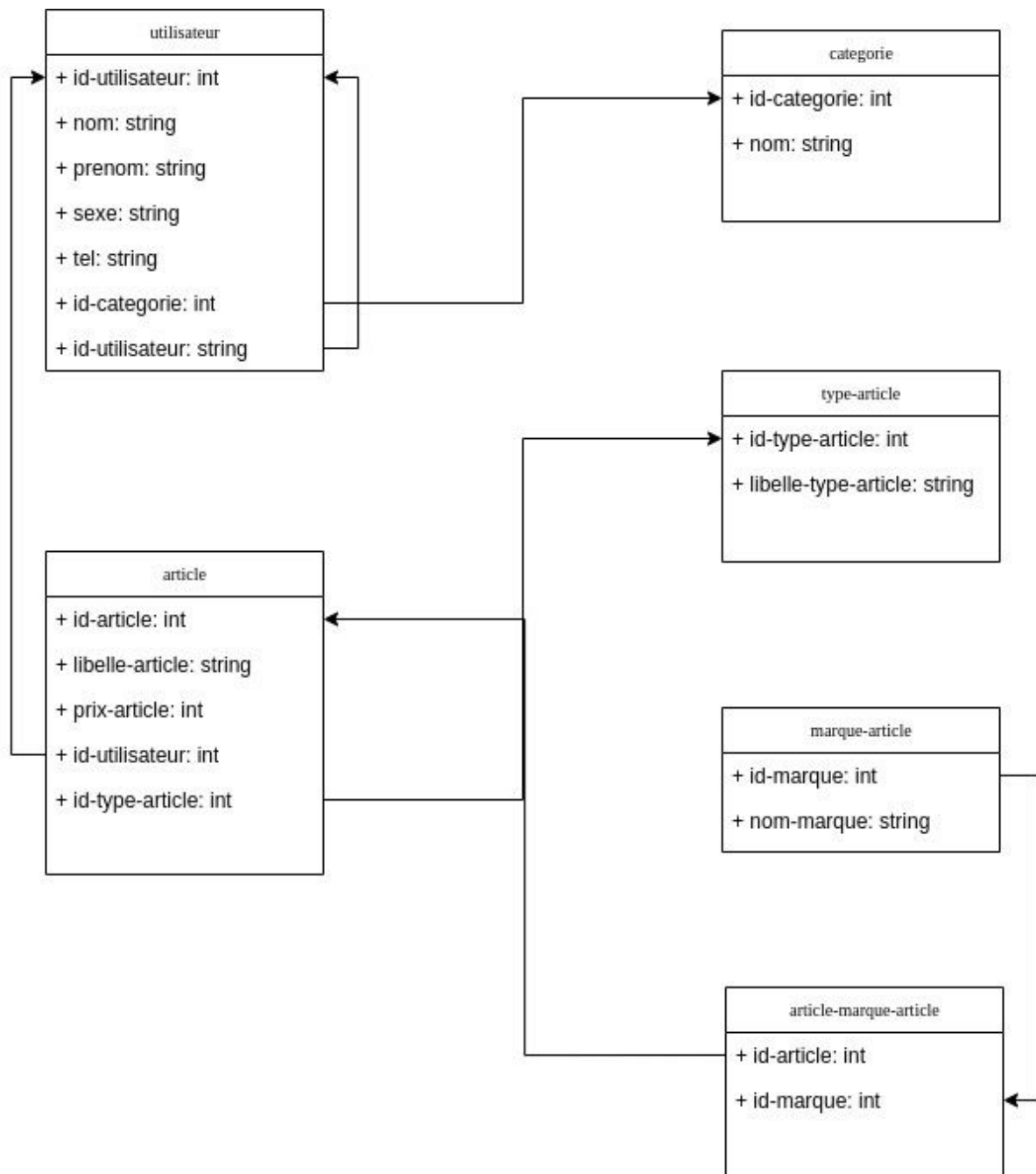


Diagramme



1. Création de la base de données

```
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| employedb |
| gael |
| kda_test |
| mysql |
| performance_schema |
| phpmyadmin |
| shop |
| sys |
| wordpress |
+-----+
10 rows in set (0.41 sec)

mysql> create database multodb;
Query OK, 1 row affected (0.10 sec)
```

`create database multodb;`

Création de la base de données multodb.

2. Création des tables

```
mysql> create table categorie (id_categorie int, nom_categorie varchar(50), constraint pk_categorie primary key (id_categorie));
Query OK, 0 rows affected (0.62 sec)
```

`create table categorie (id_categorie int, nom_categorie varchar(50), constraint pk_categorie primary key (id_categorie));`

Création de la table categorie.

```
mysql> create table type_article( id_type_article int not null, libelle_type_article varchar(50), constraint pk_article primary key (id_type_article));
Query OK, 0 rows affected (0.55 sec)
```

`create table type_article(id_type_article int not null, libelle_type_article varchar(50), constraint pk_article primary key (id_type_article));`

Création de la table type_article.

```
mysql> create table marque_article (id_marque_article int not null, nom_marque_article varchar(50), constraint pk_marque_article primary key (id_marque_article));
Query OK, 0 rows affected (0.56 sec)
```

```
create table marque_article (id_marque_article int not null,
nom_marque_article varchar(50), constraint pk_marque_article primary key
(id_marque_article));
```

création de la table marque_article

```
mysql> create table utilisateur( id_utilisateur int not null, nom_utilisateur varchar(50), prenom_utilisateur varchar(50), sexe_utilisateur varchar(1), id_categorie int not null, id_utilisateurbis int, constraint pk_id_utilisateur primary key (id_utilisateur), constraint fk_id_categorie foreign key (id_categorie) references categorie(id_categorie));
Query OK, 0 rows affected (0.31 sec)
```

```
create table utilisateur( id_utilisateur int not null, nom_utilisateur varchar(50),
prenom_utilisateur varchar(50), sexe_utilisateur varchar(1), id_categorie int
not null, id_utilisateurbis int, constraint pk_id_utilisateur primary key
(id_utilisateur), constraint fk_id_categorie foreign key (id_categorie) references
categorie(id_categorie));
```

création de la table utilisateur.

```
mysql> create table article( id_article int not null, libelle_article varchar(50), prix_article int, id_utilisateur int not null, id_type_article int not null, constraint pk_article primary key (id_article), constraint fk_id_utilisateur foreign key (id_utilisateur) references utilisateur(id_utilisateur), constraint fk_id_type_article foreign key (id_type_article) references type_article(id_type_article));
Query OK, 0 rows affected (0.75 sec)
```

```
create table article( id_article int not null, libelle_article varchar(50),
prix_article int, id_utilisateur int not null, id_type_article int not null,
constraint pk_article primary key (id_article), constraint fk_id_utilisateur
foreign key (id_utilisateur) references utilisateur(id_utilisateur), constraint
fk_id_type_article foreign key (id_type_article) references
type_article(id_type_article));
```

création de la table article.

```
mysql> create table article_marque_article( id_article int not null, id_marque_a  
rticle int not null, constraint fk_id_article foreign key (id_article) reference  
s article (id_article), constraint fk_id_marque_article foreign key (id_marque_a  
rticle) references marque_article(id_marque_article));  
Query OK, 0 rows affected (0.45 sec)
```

create table article_marque_article(id_article int not null, id_marque_article
int not null, constraint fk_id_article foreign key (id_article) references article
(id_article), constraint fk_id_marque_article foreign key (id_marque_article)
references marque_article(id_marque_article));

création de la table article_marque_article.

```
mysql> show tables;  
+-----+  
| Tables_in_multidb |  
+-----+  
| article            |  
| article_marque_article |  
| categorie          |  
| marque_article     |  
| type_article       |  
| utilisateur        |  
+-----+  
6 rows in set (0.00 sec)
```

3. Insertion des données

```
mysql> insert into categorie values(1,"client");  
Query OK, 1 row affected (0.23 sec)
```

insert into categorie values(1,"client");

insertion du client dans categorie

```
mysql> insert into categorie values (2,"commerciaux");
Query OK, 1 row affected (0.09 sec)

mysql> insert into categorie values (3,"administrateur");
Query OK, 1 row affected (0.06 sec)
```

insert into categorie values (2,"commerciaux");
insertion de la categorie commerciaux
insert into categorie values (3,"administrateur");
insertion de la categorie administrateur

```
mysql> insert into type_article values (1,"chaussure");
Query OK, 1 row affected (0.13 sec)

mysql> insert into type_article values (2,"basket");
Query OK, 1 row affected (0.07 sec)

mysql> insert into type_article values (3,"culotte");
Query OK, 1 row affected (0.04 sec)

mysql> insert into type_article values (4,"chaussures basses");
Query OK, 1 row affected (0.06 sec)
```

```
mysql> insert into marque_article values(1,"nike");
Query OK, 1 row affected (0.09 sec)

mysql> insert into marque_article values(2,"gucci");
Query OK, 1 row affected (0.08 sec)

mysql> insert into marque_article values(3,"addidas");
Query OK, 1 row affected (0.06 sec)
```



```
mysql> insert into utilisateur values(1,"manzako","jonathan","m",1,null);
Query OK, 1 row affected (0.10 sec)

mysql> insert into utilisateur values(2,"mubake","jonathan","m",1,null);
Query OK, 1 row affected (0.06 sec)

mysql> insert into utilisateur values(2,"mubake","jonathan","m",1,null);
ERROR 1062 (23000): Duplicate entry '2' for key 'PRIMARY'
mysql>
mysql> insert into utilisateur values(3,"fashion","jojo","m",1,null);
Query OK, 1 row affected (0.06 sec)

mysql> insert into utilisateur values(4,"tonton","skol","m",1,null);
Query OK, 1 row affected (0.04 sec)

mysql> insert into utilisateur values(5,"semia","semi","f",1,2);
Query OK, 1 row affected (0.06 sec)
```

```
mysql> insert into article values (1,"chaussures",50,1,1);
Query OK, 1 row affected (0.09 sec)
```

```
mysql> insert into article values (2,"culotte",100,4,3);
Query OK, 1 row affected (0.06 sec)
```

```
mysql> insert into article_marque_article values (1,1);
Query OK, 1 row affected (0.12 sec)

mysql> insert into article_marque_article values (2,1);
Query OK, 1 row affected (0.06 sec)
```

```
mysql> insert into article values (3,"chaussure",150,4,4);
Query OK, 1 row affected (0.48 sec)

mysql> insert into article_marque_article values (3,1);
Query OK, 1 row affected (0.04 sec)
```

4. listons les données

```
mysql> select * from utilisateur left join categorie on utilisateur.id_categorie=categorie.id_categorie and categorie.nom_categorie="client";
+-----+-----+-----+-----+-----+-----+-----+-----+
| id_utilisateur | nom_utilisateur | prenom_utilisateur | sexe_utilisateur | id_categorie | id_utilisateurbis | id_categorie | nom_categorie |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | manzako | jonathan | m | 1 | NULL | 1 | client |
| 2 | mubake | jonathan | m | 1 | NULL | 1 | client |
| 3 | fashion | jojo | m | 1 | NULL | 1 | client |
| 4 | tonton | skol | m | 1 | NULL | 1 | client |
| 5 | semia | semi | f | 1 | 2 | 1 | client |
+-----+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.02 sec)
```

```
select * from utilisateur left join categorie on
utilisateur.id_categorie=categorie.id_categorie and
categorie.nom_categorie="client";
```

affichage des utilisateurs de la catégorie client.

```
mysql> select * from article where article.id_article in (select id_article from article_marque_article,marque_article where article_marque_ar
ticle.id_marque_article=marque_article.id_marque_article and marque_article.nom_marque_article="nike") and article.libelle_article="culotte";
+-----+-----+-----+-----+-----+
| id_article | libelle_article | prix_article | id_utilisateur | id_type_article |
+-----+-----+-----+-----+-----+
| 2 | culotte | 100 | 4 | 3 |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
select * from article where article.id_article in (select id_article from
article_marque_article,marque_article where
article_marque_article.id_marque_article=marque_article.id_marque_article
and marque_article.nom_marque_article="nike") and
article.libelle_article="culotte";
```

affichage de toutes les culottes de marque nike se trouvant dans la base de données.

```
mysql> select * from article, marque_article, article_marque_article where article.id_article=article_marque_article.id_article and article_ma
rque_article.id_marque_article=marque_article.id_marque_article and marque_article.nom_marque_article="nike" and article.libelle_article="culo
tte";
+-----+-----+-----+-----+-----+-----+-----+-----+
| id_article | libelle_article | prix_article | id_utilisateur | id_type_article | id_marque_article | nom_marque_article | id_article | id_ma
rque_article |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 2 | culotte | 100 | 4 | 3 | 1 | nike | 2 |
+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
select * from article, marque_article, article_marque_article where
article.id_article=article_marque_article.id_article and
article_marque_article.id_marque_article=marque_article.id_marque_article
and marque_article.nom_marque_article="nike" and
article.libelle_article="culotte";
```

affichage de toutes les culottes de marque nike se trouvant dans la base de données.

```
mysql> select utilisateur.nom_utilisateur from utilisateur, categorie where utilisateur.id_categorie=categorie.id_categorie and categorie.nom_
categorie="client";
+-----+
| nom_utilisateur |
+-----+
| manzako |
| mubake |
| fashion |
| tonton |
| semla |
+-----+
5 rows in set (0.00 sec)
```

```
select utilisateur.nom_utilisateur from utilisateur, categorie where
utilisateur.id_categorie=categorie.id_categorie and
categorie.nom_categorie="client";
```

affichage de tous les clients.

```
mysql> select article.libelle_article from article, article_marque_article, type_article, marque_article where article.id_type_article=type_ar
ticle.id_type_article and type_article.libelle_type_article="chaussure basse" and article.id_article=article_marque_article.id_article and a
rticle_marque_article.id_marque_article=marque_article.id_marque_article and marque_article.nom_marque_article="nike";
Empty set (0.00 sec)
```

```
select article.libelle_article from article, article_marque_article, type_article,
marque_article where article.id_type_article=type_article.id_type_article and
type_article.libelle_type_article="chaussure basse" and
article.id_article=article_marque_article.id_article and
article_marque_article.id_marque_article=marque_article.id_marque_article
and marque_article.nom_marque_article="nike";
```

affichage de tous les articles de la marque nike et de type chaussures basses avec le langage SQL

```
mysql> select article.libelle_article from article, article_marque_article, type_article, marque_article where article.id_type_article=type_ar
ticle.id_type_article and type_article.libelle_type_article="chaussures basses" and article.id_article=article_marque_article.id_article and a
rticle_marque_article.id_marque_article=marque_article.id_marque_article and marque_article.nom_marque_article="nike";
+-----+
| libelle_article |
+-----+
| chaussure       |
+-----+
1 row in set (0.00 sec)
```

```
select article.libelle_article from article, article_marque_article, type_article,
marque_article where article.id_type_article=type_article.id_type_article and
type_article.libelle_type_article="chaussures basses" and
article.id_article=article_marque_article.id_article and
article_marque_article.id_marque_article=marque_article.id_marque_article
and marque_article.nom_marque_article="nike";
```

affichage tous les articles de la marque nike et de type chaussures basses avec le langage SQL

5. suppressions

```
mysql> delete from article_marque_article where id_article=3;
Query OK, 1 row affected (0.11 sec)

mysql> delete from article where id_article=3;
Query OK, 1 row affected (0.06 sec)
```



```
delete from article_marque_article where id_article=3;  
delete from article where id_article=3;
```

suppression d'un article ainsi que ses liens.