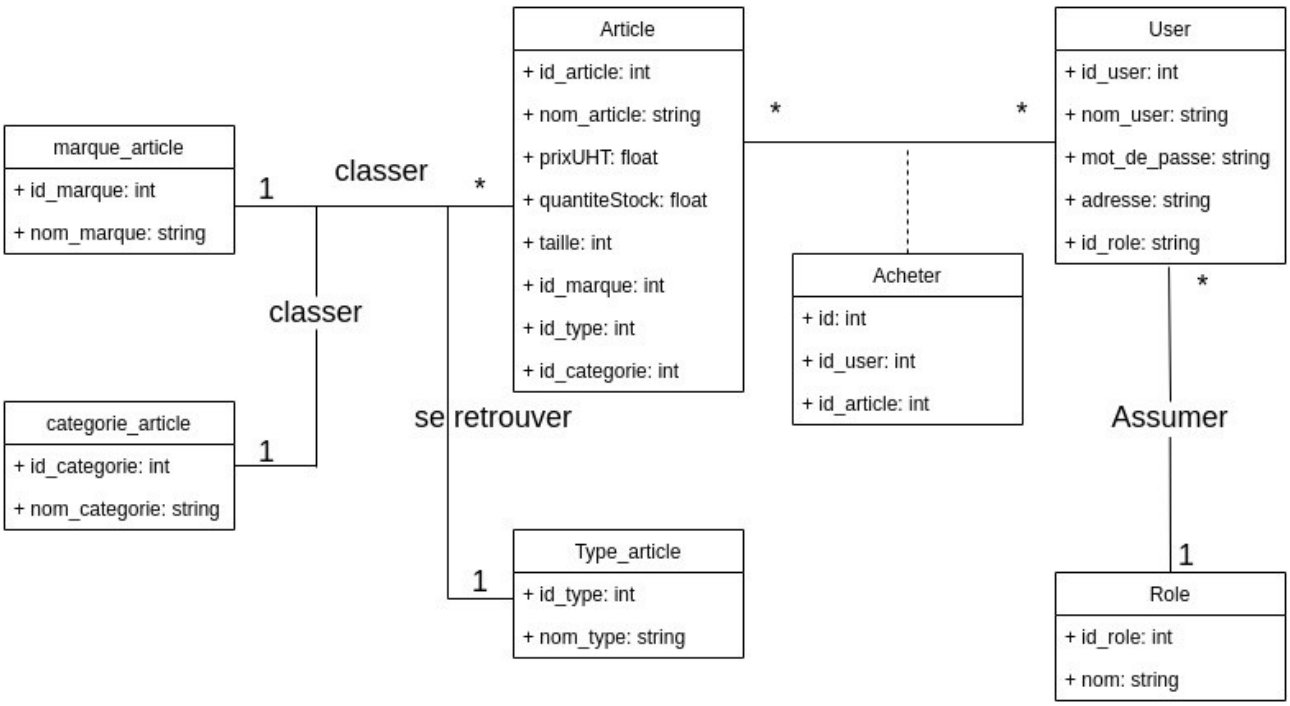
Creation d'une base de donnée multi table

1. Créer un diagramme de la base de données avec UML ou une représentation du formalisme Entité-Relation



2. Créez la base de données avec le langage SQL

create Database fashionJojo;

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

3. Créez les tables avec des requêtes SQL

```
create table marque_article(
    id_marque int primary key auto_increment not null,
    nom_marque varchar(20)
   );
```

```
mysql> create table marque_article(
    -> id_marque int primary key auto_increment not null,
    -> nom_marque varchar(20)
    -> );
Query OK, 0 rows affected (0.86 sec)
```

create table categorie_article(id_categorie int not null primary key auto_increment,nom_categorie varchar(20));

```
mysql> create table categorie_article(id_categorie int not null primary key auto_increment,nom_categorie varchar(20));
Query OK, 0 rows affected (0.27 sec)
```

create table type_article(id_type int not null primary key auto_increment,nom_type varchar(20));

```
mysql> create table type_article(id_type int not null primary key auto_increment,nom_type varchar(20));
Query OK, 0 rows affected (0.33 sec)
```

create table role_user(id_role int not null primary key auto_increment,nom_role varchar(20));

```
mysql> create table role_user(id_role int not null primary key auto_increment,nom_role varchar(20));
Query OK, 0 rows affected (0.41 sec)

mysql>
```

create table user(id_user int not null primary key auto_increment,nom_user varchar(20),mot_de_passe varchar(20), adresse_user varchar(20),id_role int ,INDEX(id_role), FOREIGN KEY(id_role) REFERENCES role_user(id_role));

```
mysql> create table user(id_user int not null primary key auto_increment,nom_user varchar(20),mot_de_passe varchar(20), adresse_user varchar(2
0),id_role int ,INDEX(id_role), FOREIGN KEY(id_role) REFERENCES role_user(id_role));
Query OK, 0 rows affected (0.43 sec)
```

create table article(
id_article int primary key auto_increment,
nom_article varchar(20) not null,
prixUHT int not null,
quantiteStock int not null,
taille int not null,
id_marque int not null,
foreign key (id_marque) references marque_article(id_marque) on delete cascade,
id_type int not null,
foreign key (id_type) references type_article(id_type) on delete cascade,
id_categorie int not null,
foreign key (id_categorie) references categorie_article(id_categorie) on delete cascade);

```
mysql> create table article(
    -> id_article int primary key auto_increment,
    -> nom_article varchar(20) not null,
    -> prixUHT int not null,
    -> quantiteStock int not null,
    -> taille int not null,
    -> id_marque int not null,
    -> foreign key (id_marque) references marque_article(id_marque) on delete cascade,
    -> id_type int not null,
    -> foreign key (id_type) references type_article(id_type) on delete cascade,
    -> id_categorie int not null,
    -> foreign key (id_categorie) references categorie_article(id_categorie) on delete cascade);
Query OK, 0 rows affected (0.52 sec)
```

```
create table acheter(
    id_achat int primary key auto_increment ,
    id_article int not null,
    foreign key (id_article) references article(id_article) on delete cascade,
    id_user int not null,
    foreign key (id_user) references user(id_user) on delete cascade);
```

```
mysql> create table acheter(
    -> id_achat int primary key auto_increment ,
    -> id_article int not null,
    -> foreign key (id_article) references article(id_article) on delete cascade,
    -> id_user int not null,
    -> foreign key (id_user) references user(id_user) on delete cascade);
Query OK, 0 rows affected (0.37 sec)
```

4.Insérez les données dans toutes les tables avec SQL tout en tenant compte des relations

```
insert into  article(nom_article,prixUHT,quantiteStock,taille,id_marque,id_type,id_categorie) values("princess",10,20,38,3,3,1), ("love",150,40,39,1,1,2), ("ma fille",20,100,35,2,2,3), ("mon bebe",10,55,18,3,3,4);
```

```
mysql> insert into article(nom_article,prixUHT,quantiteStock,taille,id_marque,id_type,id_categorie) values("princess",10,20,38,3,3,1), ("love"
,150,40,39,1,1,2), ("ma fille",20,100,35,2,2,3), ("mon bebe",10,55,18,3,3,4);
Query OK, 4 rows affected (0.06 sec)
Records: 4  Duplicates: 0  Warnings: 0
```

```
insert into role_user(nom_role)
 values("Agent Comm"),
 ("gerant"),
 ("internaute");
```

```
mysql> insert into role_user(nom_role)
    -> values("Agent Comm"),
    -> ("gerant"),
    -> ("internaute");
Query OK, 3 rows affected (0.06 sec)
Records: 3  Duplicates: 0  Warnings: 0
```

```
insert into user(nom_user,mot_de_passe,adresse_user,id_role)
  values("stanislas","1234","matete",1),
  ("ruth","ruth","gombe",2),
  ("joseph","joseph","kitambo",3);
```

```
mysql> insert into user(nom_user,mot_de_passe,adresse_user,id_role)
    -> values("stanislas","1234","matete",1),
    -> ("ruth","ruth","gombe",2),
    -> ("joseph","joseph","kitambo",3);
Query OK, 3 rows affected (0.06 sec)
Records: 3  Duplicates: 0  Warnings: 0
```

insert into acheter(id_article,id_user) value(29,3),(30,4), (32,5),(33,6);

```
mysql> insert into acheter(id_article,id_user) value(29,3),(30,4), (32,5),(33,6);
Query OK, 4 rows affected (0.06 sec)
Records: 4  Duplicates: 0  Warnings: 0
```

insert into type_article(nom_type)
values("chaussures luxes"),
("chaussures moyens"),
("chaussures basses");

```
mysql> insert into type_article(nom_type)
    -> values("chaussures luxes"),
    -> ("chaussures moyens"),
    -> ("chaussures basses");
Query OK, 3 rows affected (0.12 sec)
Records: 3  Duplicates: 0  Warnings: 0
```

insert into marque_article(nom_marque)
values("zara"),
("paul smith"),
("nike");

```
mysql> insert into marque_article(nom_marque)
    -> values("zara"),
    -> ("paul smith"),
    -> ("nike");
Query OK, 3 rows affected (0.08 sec)
Records: 3  Duplicates: 0  Warnings: 0
```

insert into categorie_article(nom_categorie)
values("chaussures majeurs"),
("chaussures adolecents"),
("chaussures enfants"),
("chaussures bebes");

```
mysql> insert into categorie_article(nom_categorie) values("chauss majeurs"), ("chauss adolecents"), ("chauss enfants"), ("chauss bebes");
Query OK, 4 rows affected (0.06 sec)
Records: 4  Duplicates: 0  Warnings: 0
```

5.Supprimez une catégorie d'articles tout en supprimant aussi tous les articles associés

```
DELETE categorie_article, article
FROM categorie_article
INNER JOIN article on categorie_article.id_categorie = article.id_categorie
WHERE categorie_article.nom_categorie = "chauss enfants";
```

```
mysql> DELETE categorie_article, article
    -> FROM categorie_article
    -> INNER JOIN article on categorie_article.id_categorie = article.id_categorie
    -> WHERE categorie_article.nom_categorie = "chauss enfants";
Query OK, 0 rows affected (0.15 sec)
```

6.Supprimer des enregistrements avec le langage SQL

```
DELETE FROM article
WHERE prixUHT > 100 ;
```

```
mysql> DELETE FROM article
    -> WHERE prixUHT > 100 ;
Query OK, 2 rows affected (0.06 sec)
```

7.Lister tous les articles de la marque nike et de type chaussures basses avec le langage SQL

```
SELECT *
FROM marque_article a
INNER JOIN article b on a.id_marque = b.id_marque
INNER JOIN type_article c on c.id_type= b.id_type
WHERE a.nom_marque = "nike" and c.nom_type = "chaussures basses";
```

```
mysql> SELECT *
    -> FROM marque_article a
    -> INNER JOIN article b on a.id_marque = b.id_marque
    -> INNER JOIN type_article c on c.id_type= b.id_type
    -> WHERE a.nom_marque = "nike" and c.nom_type = "chaussures basses";
+-----------+------------+------------+-------------+---------+----------------+--
```

8.Lister tous les clients de Jojo Fashion en sachant qu'il n'existe pas de tables clients et qu'il faut faire une requête ou l'on va partir de la catégorie de l'utilisateur

```
SELECT *
```

FROM user a INNER JOIN role_user b on a.id_role = b.id_role
WHERE b.nom_role ="internaute";

```
mysql> SELECT *
    -> FROM user a INNER JOIN role_user b on a.id_role = b.id_role
    -> WHERE b.nom_role ="internaute";
+---------+----------+--------------+--------------+---------+---------+------------+
| id_user | nom_user | mot_de_passe | adresse_user | id_role | id_role | nom_role   |
+---------+----------+--------------+--------------+---------+---------+------------+
|       3 | joseph   | joseph       | kitambo      |       3 |       3 | internaute |
|       4 | ajax     | 1234         | matete       |       3 |       3 | internaute |
|       5 | wifi     | ruth         | gombe        |       3 |       3 | internaute |
|       6 | jojo     | joseph       | kitambo      |       3 |       3 | internaute |
+---------+----------+--------------+--------------+---------+---------+------------+
```

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

SELECT *
FROM article a INNER JOIN marque_article b on a.id_marque = b.id_marque
WHERE a.nom_article = "cullotte" and b.nom_marque = "nike";

```
mysql> SELECT *
    -> FROM article a INNER JOIN marque_article b on a.id_marque = b.id_marque
    -> WHERE a.nom_article = "cullotte" and b.nom_marque = "nike";
+------------+-------------+---------+--------------+--------+-----------+---------+--------------+-----------+------------+
| id_article | nom_article | prixUHT | quantiteStock | taille | id_marque | id_type | id_categorie | id_marque | nom_marque |
+------------+-------------+---------+--------------+--------+-----------+---------+--------------+-----------+------------+
|         34 | cullotte    |     180 |           20 |     38 |         3 |       1 |            6 |         3 | nike       |
+------------+-------------+---------+--------------+--------+-----------+---------+--------------+-----------+------------+
```