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Exercices SGBD manipulation correction

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Terminale - NSI

BDD 05

Exercices SGBD manipulation correction

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ercice 3

exercice 4

- colonne, column, attribut
- entité, ligne, row
- domaine, type
- relation, table
- schéma (description d'une relation)
- base de données (ensemble des relations)

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Exercices SGBD manipulation correction

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Exercice 2

- Especes(id Integer, nom String)
- Animaux(<u>id Integer</u>, nom String, age Integer, <u>id_espece</u> <u>Integer</u>)
- ► Soins(id Integer, id_animal Integer, soin String)

```
id Integer PRIMARY KEY AUTOINCREMENT,
        nom String);
CREATE TABLE Animaux (
        id Integer PRIMARY KEY AUTOINCREMENT,
        nom String,
        age Integer,
        id_espece Integer,
        FOREIGN KEY (id espece) REFERENCES Especes(
  id));
CREATE TABLE Soins (
    id Integer PRIMARY KEY AUTOINCREMENT,
    id animal Integer,
    soin String,
    FOREIGN KEY (id animal) REFERENCES Animaux(id));
```

Code 1 – Création des 3 tables

CREATE TABLE Especes (

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```
INSERT INTO Especes (nom) VALUES
("chien"),
("chat"),
("poisson");
```

Code 2 - Insertion espèces

```
INSERT INTO Animaux (nom, age, id_espece) VALUES
("Minou", 15, 2),
("Tex", 8, 1),
("Rrrrr", 2, 1);
```

Code 3 - Insertion animaux

Remarque

Les identifiants des espèces peuvent varier.

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```
INSERT INTO Soins (id_animal, soin) VALUES
(2, "patte cassée - plâtre"),
(1, "fièvre - antibiotiques");
```

Code 4 – Insertion soins

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Exercice 2

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Soundex : algorithme phonétique d'indexation corriger les erreurs orthographiques https://fr.wikipedia.org/wiki/Soundex 1

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exercice 2

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Remarque

- ► SQLite LIKE operator is case-insensitive. It means "A" LIKE "a" is true.
- ► However, for Unicode characters that are not in the ASCII ranges, the LIKE operator is case sensitive e.g., "Ä" LIKE "ä" is false

```
SELECT departement_nom FROM Departements WHERE departement_nom LIKE '%haut%';

SELECT departement_nom FROM Departements WHERE departement_nom NOT LIKE '%-%' AND departement nom NOT LIKE '% %';
```

Exercice

Remarque

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Il est possible de comparer des *String* comme des *Integer*. Le SQL est très permissif : departement_code est de type *String*, pourtant il accepte la comparaison avec un *Integer*.

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```
SELECT * FROM employees WHERE name = 'GARFIELD';
SELECT name FROM employees WHERE designation = '
  TECH';
SELECT name FROM employees WHERE name LIKE 'H%';
SELECT name FROM employees WHERE hired on > '
  1997-01-01';
SELECT name, salary FROM employees WHERE
salary > 25000 AND
salary < 55000;
```

```
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```

```
SELECT name, salary FROM employees WHERE
salary > 25000 AND
salary < 55000 AND
commission IS NOT NULL;

--ou bien
SELECT name, salary FROM employees WHERE
salary > 25000 AND
salary < 55000 AND
commission > 0;
```

Remarque

NULL est différent de 0; commission = 0 ne renverrait rien ici

```
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```

```
INSERT INTO employees (name, designation, manager,
  hired_on, salary, dept) VALUES ('DURAN', 'TECH',
  6, '1999-01-13', 35000, 4);

UPDATE employees SET salary = 60000 WHERE
name = 'FILLMORE';
```

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