# Atelier 2

2.1 Sélectionnez le nom de famille de tous les employés.

```
SELECT LastName FROM employees --
```

2.2 Sélectionnez le nom de famille de tous les employés, sans doublons.

```
SELECT DISTINCT LastName FROM employees --
```

2.3 Sélectionnez toutes les données des employés dont le nom de famille est "Smith".

```
 SELECT * FROM employees WHERE LastName = 'Smith' --
```

2.4 toutSélectionnezes les données des employés dont le nom de famille est "Smith" ou "Doe".

```
SELECT * FROM employees WHERE LastName = 'Smith' OR LastName = 'Doe' --
```

2.5 Sélectionnez toutes les données des employés qui travaillent dans le département 14.

```
SELECT * FROM employees WHERE Department = 14 --
```

2.6 Sélectionner toutes les données des employés qui travaillent dans le département 37 ou le département 77.

```
 SELECT * FROM employees WHERE Department =37 OR Department = 77 --
```

2.7 Sélectionner toutes les données des employés dont le nom de famille commence par un "S".

```
SELECT * FROM employees WHERE LastName LIKE 'S%'; --
```

2.8 Sélectionner la somme des budgets de tous les départements.

```
 SELECT SUM(Budget) FROM departments --
```

2.9 Sélectionnez le nombre d'employés dans chaque département (vous devez seulement indiquer le code du département et le nombre d'employés).

```
 SELECT Department,COUNT(Name) FROM employees GROUP BY Department; --
```

2.10 Sélectionnez toutes les données des employés, y compris les données du département de chaque employé.

```
SELECT * FROM employees INNER JOIN departments ON employees.Department = departments.Code
```

# Atelier 3

```
1- SELECT * FROM warehouses

2- SELECT * FROM boxes WHERE VALUE > 150

3- SELECT `Code`, `Contents`, `Value`, `Warehouse` FROM `boxes` WHERE Value >=150

4- SELECT DISTINCT Contents FROM boxes

5- SELECT AVG(Value) FROM boxes

6- SELECT Warehouse, AVG(Value) FROM Boxes GROUP BY Warehouse

7- SELECT Warehouse, AVG(Value) FROM boxes GROUP BY Warehouse HAVING
AVG(Value)>150

8- SELECT Boxes.Code, Location FROM Warehouses INNER JOIN Boxes ON
Warehouses.Code = Boxes.Warehouse
9- SELECT warehouse, COUNT(*) FROM boxes GROUP BY Warehouse

10- SELECT Code FROM warehouses WHERE Capacity < ( SELECT COUNT(*) FROM boxes
WHERE Warehouse = warehouses.Code )

11- SELECT Boxes.Code
   FROM Warehouses LEFT JOIN Boxes
   ON Warehouses.Code = Boxes.Warehouse
   WHERE Location = 'Chicago';

12- INSERT INTO `Warehouse` values (6, 'New York',3);
13- INSERT INTO boxes (Code, Contents, Value, Warehouse) VALUES ('H5RT','Papers',
200,2)

14-
15- DELETE FROM boxes WHERE Value<100

16- DELETE FROM `boxes` WHERE Warehouse IN ( SELECT Code FROM warehouses
WHERE Capacity < ( SELECT COUNT(*) FROM boxes WHERE Warehouse =
warehouses.Code ) )
17- CREATE INDEX INDEX_WAREHOUSE ON Boxes (warehouse);

18- SHOW INDEX FROM Boxes FROM warehouses;
```

# Atelier 4

```
1- SELECT titre from films
2- SELECT DISTINCT Rating FROM movies

3- SELECT * FROM Movies WHERE Rating IS NULL

4- SELECT*FROM movietheaters WHERE (Movie IS NULL)

5- SELECT * FROM MovieTheaters LEFT JOIN Movies ON MovieTheaters.Movie =
Movies.Code

6- SELECT * FROM MovieTheaters RIGHT JOIN Movies ON MovieTheaters.Movie =
Movies.Code

7- SELECT Title FROM Movies WHERE Code NOT IN ( SELECT Movie FROM MovieTheaters
WHERE Movie IS NOT NULL )

8- INSERT INTO Movies(Code, Title,Rating) VALUES(9,'One, Two, Three',NULL)

9-  UPDATE movies
SET Rating = "G"
WHERE Rating IS NULL

10- DELETE FROM movitheathre WHERE movie IN (SELECT Code FROM Movies WHERE
Rating = 'NC-17')
```

# Atelier 5

```
1- CREATE DATABASE atelier5

2- SELECT  name FROM providers

3- SELECT `piece`, AVG(price) FROM `provides` GROUP BY piece

4- select Name
from Providers
where Code in (
select  Provider from provides where Piece = 1
);

5- SELECT Name FROM `pieces` WHERE Code IN(SELECT piece FROM `provides`
WHERE Provider = 'HAL');

6- SELECT Pieces.Name, Providers.Name, Price FROM Pieces INNER JOIN Provides
ON Pieces.Code = Piece INNER JOIN Providers ON Providers.Code = Provider
WHERE Price = ( SELECT MAX(Price) FROM Provides WHERE Piece = Pieces.Code )

7- INSERT INTO Provides
  VALUES (1, 'TNBC', 7);

8- UPDATE Provides SET Price = Price + 1;

9- DELETE FROM Provides
   WHERE Provider = 'RBT'
     AND Piece = 4;
```

## Atelier 6

```
1- CREATE DATABASE atelier6

2- SELECT Name, Project FROM Scientists ORDER BY Name
```