

←📄→

Leçon N° 04

Data Manipulation Language

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Chapitre 04 : Le Langage SQL

INSERT, DELETE, UPDATE

←📄→Leçon N°

INSERT INTO NomTable(Colonne1,Colonne2,...)  
VALUES(Value1,Value2,...)

INSERT INTO Client(id,nom,prenom)  
VALUES (1,'Ali','Amar'), (2,'Ahmed','Ahmed'), (3,'Ali','Malik')

DELETE FROM NomTable  
WHERE Condition

UPDATE NomTable  
SET Colonne1=Valeur1, Colonne2=Valeur2,...  
WHERE Condition

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Le SELECT

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SELECT [ALL | DISTINCT] champ1 [AS new\_name], champs2 ...  
FROM Table1 [AS Alias] [,Table2...]  
[WHERE Condition [AND]OR[NOT Condition2]]

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Les Conditions

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Leçon N°

BASE

Colonne Opérateur Constante. Avec Opérateur : = , <> , < , <= , > , >=

BETWEEN

SELECT \* FROM Client WHERE age BETWEEN 25 And 45

IN

SELECT \* FROM Client WHERE Nom IN ('Ali','Malik','Ahmed')

LIKE

SELECT \* FROM Client WHERE Nom LIKE '\_h%d'

IS NULL

SELECT \* FROM Client WHERE Nom IS NOT NULL

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Les Jointures

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Leçon N°

Table1, Table2

Table1 [CROSS] JOIN Table2

Table1 [INNER] JOIN Table2 ON Condition

Table1 NATURAL JOIN Table2

Table1 LEFT | RIGHT | FULL [OUTER] JOIN Table2 ON Condition

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Tri du résultat

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Leçon N°

SELECT \*

FROM Client

ORDER BY Nom ASC, Age Desc

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Les Agrégats

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Leçon N°

Etudiant

Matricule

Nom

DateNaissance

Moyenne

Wilaya

Sexe

COUNT

MAX

MIN

AVG

SUM

SELECT AVG(Moyenne)

FROM Etudiant

GROUP BY Wilaya, Sexe

HAVING AVG(Moyenne) > 10

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Les Requêtes imbriquées

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Leçon N°

Requête Principale

SELECT

FROM

WHERE

SELECT

ID, Nom

, (SELECT COUNT(\*) FROM Contrat C WHERE C.AssureID=A.ID) AS NBCContrat

FROM Assure A

WHERE OrganismeID=1601

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Les Requêtes imbriquées

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Leçon N°

Requête Principale

SELECT

FROM

WHERE

SELECT

ID, Nom, C.AssureID

FROM Assure A, (SELECT Distinct AssureID FROM Contrat ) AS C

WHERE C.OrganismeID=1601 And C.AssureID=A.ID

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Les Requêtes imbriquées

Leçon N°

Requête Principale

SELECT

FROM

WHERE

```
SELECT *
FROM Etudiant E
WHERE Moyenne > (SELECT AVG(Moyenne) FROM Etudiant)
AND Moyenne <> ALL (SELECT Distinct Moyenne FROM Etudiant WHERE Wilaya = 01)
AND Wilaya IN (SELECT Distinct Wilaya FROM Etudiant WHERE DateNais = '01/01/2000')
AND EXISTS (SELECT * FROM Véhicule V WHERE V.Propriétaire = E.Matricule)
```

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Leçon N° 05

Data Control Language

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Chapitre 04 : Le Langage SQL

MySQL : DCL

Leçon N°

Utilisateur

Application

Base de données

```
graph LR
    User[Utilisateur] --> App[Application]
    App --> DB[Base de données]
    App --> DB
    App --> DB
    App --> DB
```

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Chapitre 04 : Le Langage SQL

MySQL : DCL

Leçon N°

Listes des utilisateurs : Table user de la base de données mysql

mysql> use mysql;  
Database changed  
mysql> select \* from user;  
+-----+-----+-----+  
| Host | User | Password |  
+-----+-----+-----+  
| localhost | root | \*DE1496A99A431A6094522B05938E509478253739 |  
| localhost | a | \*667F407DE7C6AD07358FA38DAED7828A7201484E |  
+-----+-----+-----+  
2 rows in set (0.00 sec)

Créer un user : create user

mysql> create user moi identified by 'moi';  
Query OK, 0 rows affected (0.00 sec)  
  
mysql> select \* from user;  
+-----+-----+-----+  
| Host | User | Password |  
+-----+-----+-----+  
| localhost | root | \*DE1496A99A431A6094522B05938E509478253739 |  
| % | moi | \*50FCF8E13E2C881F44C81C3ED8C826E1E6A85FD4 |  
+-----+-----+-----+

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Chapitre 04 : Le Langage SQL

MySQL : DCL

Leçon N°

Renommer un user: Rename user

mysql> rename user moi to lui;  
Query OK, 0 rows affected (0.00 sec)  
  
mysql> select \* from user;  
+-----+-----+-----+  
| Host | User | Password |  
+-----+-----+-----+  
| localhost | root | \*DE1496A99A431A6094522B05938E509478253739 |  
| % | lui | \*50FCF8E13E2C881F44C81C3ED8C826E1E6A85FD4 |  
+-----+-----+-----+

Supprimer un user: drop user

mysql> drop user lui;  
Query OK, 0 rows affected (0.00 sec)  
  
mysql> select \* from user;  
+-----+-----+-----+  
| Host | User | Password |  
+-----+-----+-----+  
| localhost | root | \*DE1496A99A431A6094522B05938E509478253739 |  
+-----+-----+-----+

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Chapitre 04 : Le Langage SQL

MySQL : DCL

Leçon N°

Modifier le mot de passe: Set password

mysql> set password for moi=password('lui');  
Query OK, 0 rows affected (0.05 sec)

Utilisateur courant: Select user();

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Chapitre 04 : Le Langage SQL

MySQL : DCL

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Leçon N°

Liste des privilèges : SHOW PRIVILEGES

Attribuer des privilèges : GRANT

mysql> GRANT Select on facturation.client to moi;  
Query OK, 0 rows affected (0.00 sec)  
  
mysql> GRANT Select on facturation.client to toi identified by 'toi';  
Query OK, 0 rows affected (0.00 sec)

Les privilèges d'un utilisateur : SHOW GRANTS for user

mysql> show grants for moi;  
+-----+  
| Grants for moi@% |  
+-----+  
| GRANT USAGE ON \*.\* TO 'moi'@'%' IDENTIFIED BY PASSWORD '\*50fcf8e13e2c881f44c81c' |  
| GRANT SELECT ON 'facturation'.client TO 'moi'@'%' |  
+-----+

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Chapitre 04 : Le Langage SQL

MySQL : DCL

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Leçon N°

Enlever des privilèges : REVOKE

mysql> revoke select on facturation.client from moi;  
Query OK, 0 rows affected (0.00 sec)  
  
mysql> show grants for moi;  
+-----+  
| Grants for moi@% |  
+-----+  
| GRANT USAGE ON \*.\* TO 'moi'@'%' IDENTIFIED BY PASSWORD '\*50fcf8e13e2c88' |  
+-----+

Enlever tous les privilèges : REVOKE ALL

mysql> revoke all on \*.\* from moi;  
Query OK, 0 rows affected (0.00 sec)  
  
mysql> show grants for moi;  
+-----+  
| Grants for moi@% |  
+-----+  
| GRANT USAGE ON \*.\* TO 'moi'@'%' IDENTIFIED BY PASSWORD '\*50fcf8e13e2c88' |  
+-----+

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