Curso SQL

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Curso SQL

☐ Consultas - SELECT
☐Combinar - JOIN
☐Anexar - UNION
☐Subconsultas y CTE
☐ Funciones de ventana
☐ Modificar Datos - INSERT, UPDATE, DELETE
□ Transacciones
Modificar Estructura - CREATE, ALTER, DROP
Procedimientos almacenados
☐ Triggers

Configuración del entorno de trabajo



MySQL

https://dev.mysql.com/downloads/mysql/



DBeaver

https://dbeaver.io/download/

SELECT

SELECT DISTINC

FROM

WHERE

GROUP BY

HAVING

ORDER BY

LIMIT

Orden de ejecución

FROM

WHERE

GROUP BY

HAVING

SELECT

DISTINCT

ORDER BY

LIMIT

FUNCIONES DE TEXTO

UPPER, LOWER
LEFT, RIGHT
LENGTH
TRIM, LTRIM, RTRIM, BTRIM
SUBSTRING
CONCAT

FUNCIONES DE FECHA Y HORA

CURRENT_DATE
CURRENT_TIME
CURRENT_TIMESTAMP

DATEADD DATEDIFF DATEPART

FILTRADO - WHERE

```
=, <>, <, >, <=, >=
AND, OR, NOT
BETWEEN ... AND
IN (...)
LIKE
```

CASE

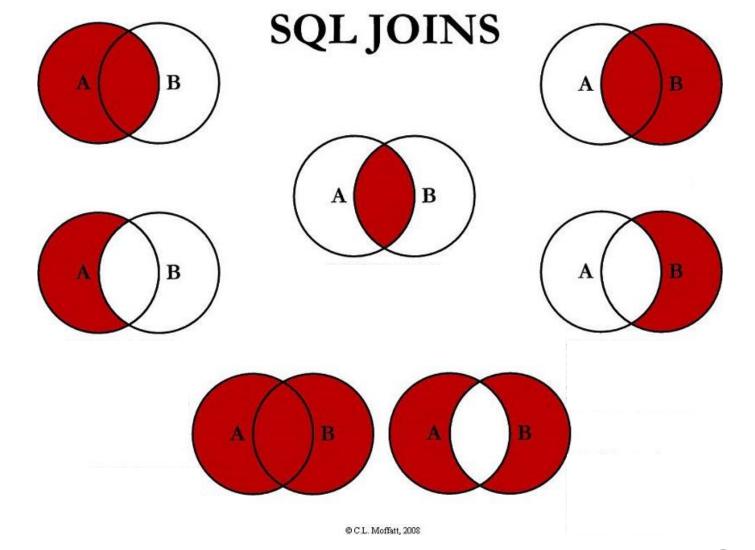
CASE exp
WHEN valor1 THEN res1
WHEN valor2 THEN res2
WHEN valor3 THEN res3
ELSE res4
END

CASE
WHEN cond1 THEN res1
WHEN cond2 THEN res2
WHEN cond3 THEN res3
ELSE res4
END

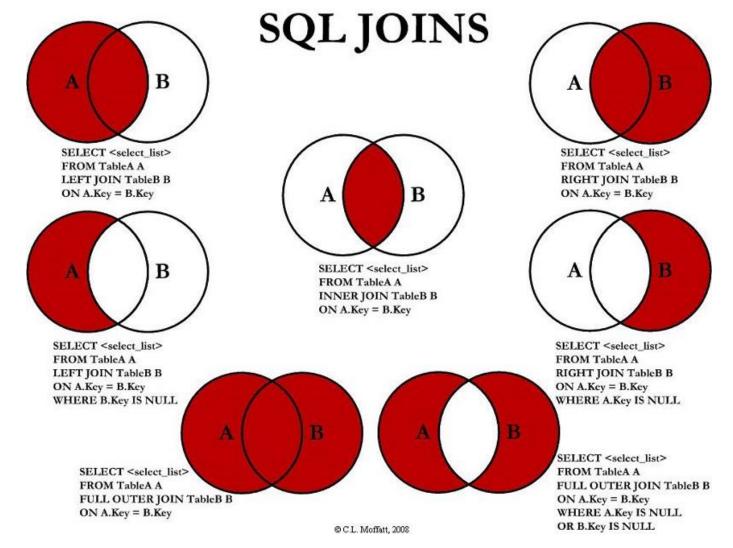
FUNCIONES DE AGREGACIÓN

COUNT SUM MIN, MAX AVG Estas funciones se utilizan frecuentemente en combinación con GROUP BY y con HAVING

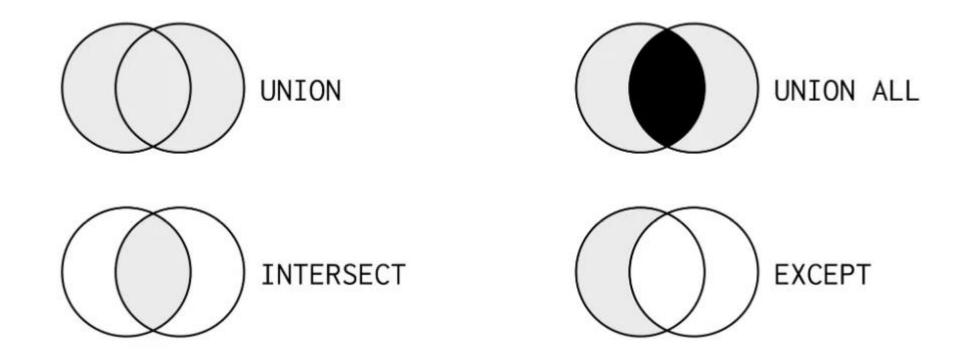
JOIN



JOIN



UNION



SUBCONSULTA

Filtrar una consulta basándose en otra

```
SELECT c1
FROM t1
WHERE
c2 > (
SELECT AVG(c3)
FROM t2
)
```

```
SELECT c1
FROM t1
WHERE
c2 IN (
SELECT c3
FROM t2
WHERE c4 > 200
)
```

SUBCONSULTA

Crear nuevas columnas a partir de agregaciones

```
SELECT
c1,
(
SELECT AVG(c3)
FROM t2
) AS c2
FROM t1
```

SUBCONSULTA

Consultas correlacionadas

```
SELECT
   c1,
   c2
FROM t1
WHERE c2 = (
  SELECT MAX(c3)
  FROM t2
  WHERE t1.c1 = t2.c4
```

CTE: Common Table Expression

Organizar consultas complejas

```
WITH cte1 AS (
SELECT
...
c1,
sUM(c2)
FROM t1
GROUP BY c1
SELECT
...
FROM cte1
SELECT
...
FROM cte1
```

CTE: Common Table Expression

Consulta recursiva

```
WITH cte_recursiva AS ( SELECT ....

c1 FROM cte_recursiva ...

INNER JOIN cte_recursiva ...

...

SELECT ....

INNER JOIN cte_recursiva ...
```