

WITH

```
WITH query_tab_name AS (
    SELECT ....
)
SELECT ...
FROM query_tab_name ....
```

Full Syntax Order

```
SELECT [ DISTINCT ]
expressions
FROM tables
[JOIN other_table ON conditions]
[WHERE conditions]
[GROUP BY expressions]
[HAVING conditions]
[ORDER BY expression [ ASC |
DESC ]]
[LIMIT number_rows OFFSET
offset_value];
```

CASE WHEN

```
CASE
    WHEN condition1 THEN x
    WHEN condition2 THEN y
    ELSE z
END
```

JOINS

SQL Server & Oracle

```
[INNER] JOIN
LEFT [OUTER] JOIN
RIGHT [OUTER] JOIN
FULL [OUTER] JOIN
CROSS JOIN -- cartesian_join
example:
SELECT * FROM tabA INNER JOIN
tabB ON tabA.id = tabB.id;
```

Conditions

```
column BETWEEN x AND y
IS NULL / IS NOT NULL
column LIKE pattern -- eg. '%value%' AVG
```

UPDATE

```
UPDATE table
SET column1 = expression1,
    column2 = expression2,
    ...
[WHERE conditions];
UPDATE table1
SET column1 = (SELECT expression1
FROM table2
WHERE conditions)
[WHERE conditions];
UPDATE table1, table2, ...
SET column1 = expression1,
    column2 = expression2,
    ...
WHERE table1.column =
table2.column
[AND conditions];
```

Functions

```
STRCMP ("string1", "string2") Compare strings
LOWER("string")
UPPER("string")
LTRIM("string") Left trim
SUBSTR (string, "start_index", "length") Substring of a string
CONCAT ("string1", "string2") Concatenate
ROUND (column, 10) round number
```

Aggregations

```
COUNT
SUM
MIN
MAX
```

INSERT

```
INSERT INTO table
(column1, column2, ... column_n)
VALUES
(expression1, expression2, ...
expression_n);
INSERT INTO table
(column1, column2, ... )
SELECT expression1, expression2, ...
FROM source_table
[WHERE conditions];
```

EXCEPT

```
SELECT expression1, expression2,
... expression_n
FROM tables
[WHERE conditions]
EXCEPT
SELECT expression1, expression2,
... expression_n
FROM tables
[WHERE conditions];
```

CREATE

```
CREATE TABLE table_name (
    id INT AUTO_INCREMENT,
    name VARCHAR(20),
    surname VARCHAR(20),
    PRIMARY KEY (id)
);
```

ALTER TABLE

```
ALTER TABLE table ADD COLUMN  
column;  
ALTER TABLE table DROP COLUMN  
column;  
ALTER TABLE table ADD PRIMARY  
KEY (column);
```

DELETE

```
DELETE FROM table  
[WHERE condit ions];
```



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