

### 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 condition 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%'
```

### 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 ("str1", "str2") Compare strings
LOWER("str") Left trim
UPPER("str")
LTRIM("str") Left trim
SUBSTRING("string", 1, 10) Substring of a string
CONCAT("str1", "str2") Concatenate
ROUND(column, 10) round number
```

### Aggregations

```
COUNT
SUM
AVG
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(2),
    surname VARCHAR(32),
    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 conditions];
```



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Not published yet.

Last updated 2nd March, 2022.

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