SQL ZERO TO HERO!

SQL

- **ALIAS**
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- **GROUP BY**
  - Group by column
  - Having
- **ORDER BY**
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- **JOINS**
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  - ANY
  - EXISTS
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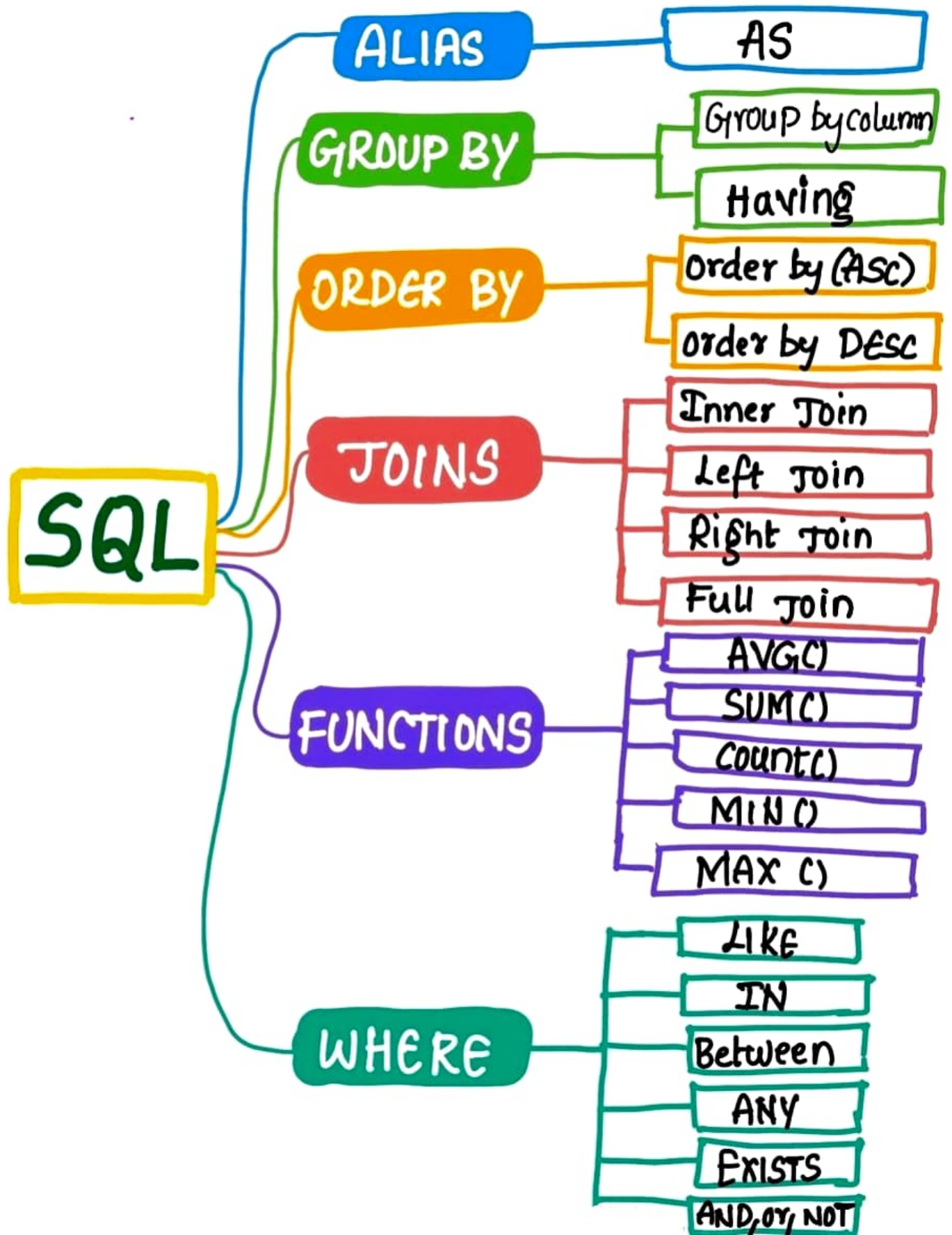
ALIAS — AS

Example:

An Alias is created with 'AS' Keyword.

```
SELECT column_name AS alias_name
FROM   table_name;
```

GROUP BY

⟹ **GROUP BY COLUMN**

Example:

```
SELECT column_name (s)
FROM table_name
WHERE condition
GROUP BY column_name(s)
ORDER BY column_name (s);
```

⟹ **Having**

Example:

```
SELECT column name(s)
FROM  table name
WHERE condition
GROUP BY column_name (s)
HAVING condition
ORDER BY column_name (s);
```

ORDER BY

→ **ORDER BY (ASC)** or **ORDER BY DES**

The order by keyword is used to Sort the result-set in ascending or descending order

Example:

```
SELECT column1, Column2, .....
FROM table_name
ORDER BY column1, column2,..... Asc/DES;
```

JOINS

→ **INNER JOIN**

This keyword Selects that have matching values in both tables

Example:
```
SELECT column_name(s)
FROM table1
INNERJOIN table2
ON table.column_name = table2.column_name;
```

→ **LEFT JOIN**

Example:
```
SELECT column_name(s)
FROM table1
LEFT JOIN table2
```

RIGHT JOIN

Example: SELECT column_name(s)
FROM table 1
RIGHT JOIN table 2
ON table1.column_name = table 2.column_name;

FULL JOIN

Example: SELECT column_name(s)
FROM table1
FULL outer join table2
ON table1.column_name = table 2.column_name;
WHERE condition

FUNCTIONS

AVG ()

Example:
SELECT AVG(column_name)
FROM table_name
WHERE condition;

SUM ()

Example:
SELECT SUM(column_name)
FROM table_name
WHERE condition;

COUNT ()

Example:
SELECT (Product ID)
FROM Products;

⇒ **MIN ()**

Example:

```
SELECT MIN (column_name)
FROM table_name
WHERE condition;
```

→ **MAX ()**

Example:

```
SELECT MAX (column_name)
FROM table_name
WHERE condition;
```

WHERE

⇒ **LIKE**

Example:

```
SELECT column1, coum2,....
FROM table_name
WHERE columnN LIKE Pattern
```

⇒ **IN**

Example:

```
SELECT column_name (s)
FROM table_name
WHERE column_name IN
      (value1, value2,....);
```

⇒ **BETWEEN**

Example:

```
SELECT column_name
FROM table_name
WHERE column_name BETWEEN
       Value1 AND Value2;
```

⇒ **ANY**

Example:

```
SELECT column_name (s)
FROM table_name
WHERE column_name
         Operator ANY
(SELECT column_name
 FROM table_name
```

⇒ **Exists**

SELECT column_name(s)
FROM table_name
WHERE EXISTS

SELECT column_name FROM table_name
WHERE condition);

⇒ **ALL**

SELECT ALL column_name(s)
FROM table_name
WHERE condition;

⇒ **AND**

SELECT column1, column2, ...
FROM table_name
WHERE condition1 AND condition2 AND condition3...;

⇒ **OR**

SELECT column1, column2, ...
FROM table_name
WHERE condion1 OR condition2 OR condition3....;

⇒ **NOT**

SELECT column1, column2, ...
FROM table_name
WHERE NOT condition;