SQL Zero to Hero

SQL

- **ALIAS**
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- **GROUP BY**
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  - Having
- **ORDER BY**
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- **JOINS**
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- **WHERE**
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  - In
  - Between
  - Any
  - Exists
  - And, Or, Not

1.

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);
```

2.

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 Column 1, Column 2, ...
FROM table_name
ORDER BY column 1, column 2, ... Asc/Des;

JOINS

➡️ **INNER JOIN**

This keyword selects that have matching values in both tables

Example:

SELECT column_name(s)
FROM table 1
INNER JOIN table 2
ON table.column_name = table 2.column.name;

➡️ **LEFT JOIN**

Example:

SELECT column_name(s)
FROM table 1
LEFT JOIN table 2

3.

⇒ **RIGHT JOIN**

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

⇒ **FULL JOIN**

Example:
```
SELECT column_name (s)
FROM table 1
FULL OUTER JOIN table 2
ON table 1. 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;
```
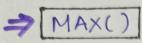
⇒ MIN ( )

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 Column 1, Column 2...
FROM table_name
WHERE Column LIKE Pattern

⇒ IN

Example:
SELECT column_name (S)
FROM table_name
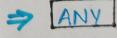WHERE column_name IN
(value 1, value 2, ...);

⇒ 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**

Example:
```
SELECT column_name(s)
FROM table_name
WHERE Exists
SELECT column_name FROM table_name
                  WHERE (condition);
```

⇒ **ALL**

Example:
```
SELECT ALL column_name(s)
FROM table_name
WHERE condition;
```

⇒ **AND**

Example:
```
SELECT Column 1 , Column 2,...
FROM table_name
WHERE Condition 1 AND Condition 2 AND
                 Condition 3 ....;
```

⇒ **OR**

Example:
```
SELECT Column 1 , Column 2,....
FROM table_name
WHERE Condition 1 OR Condition 2 OR
                 Condition 3 ... ;
```

⇒ **NOT**

Example:
```
SELECT Column 1, Column 2,....
FROM table_name
WHERE NOT Condition;
```

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