

SQL Documentation

Selecting from a table.

```
SELECT * FROM Table;
```

Selecting only certain fields from a table.

```
SELECT field1, field2 FROM Table;
```

WHERE clauses.

```
-- Basic WHERE clause
SELECT * FROM Table
WHERE condition;

-- Compound WHERE clauses
SELECT * FROM Table
WHERE condition1
AND condition2;
```

Condition operators

=	equal
<	less than
>	greater than
<>	not equal
IN (a, b, c)	Value is in a list
BETWEEN x AND y	Value is between x and y
LIKE "%"	String matches a pattern

String patterns.

```
"A%" (words starting with "A")
"%a" (words ending with "a")
"%a%" (words with "a" in it)
```

Ordering / Sorting queries.

```
// Sort by a field name
ORDER BY field_name;

-- Sort by a field name in reverse
ORDER BY field_name DESC;

-- Sort by a field and then sort by a 2nd field when the 1st field is equal
ORDER BY field_1, field_2;
```

Renaming fields in results

```
SELECT field_name AS "Field Name"

SELECT first_name AS "First Name"
```

Joining Tables.

```
-- Select all fields in both tables combined.
SELECT *
FROM TableA JOIN TableB;

-- Select only the rows in the joined table where the ids match
SELECT *
FROM TableA JOIN TableB
WHERE TableA.id = TableB.id;

-- Select only the relevant columns from each table
-- Where their ids match
SELECT TableA.value, TableB.value
FROM TableA JOIN TableB
WHERE TableA.id = TableB.id;
```

The COUNT Function

```
-- Return the number of rows in Table
SELECT COUNT(*) FROM Table;

-- Return the number of houses and name
-- the column "Num Houses"
SELECT COUNT(*) As "Num Houses" FROM House;
```

Grouping

```
-- Syntax for grouping and counting
SELECT field_name, COUNT(*)
FROM Table
GROUP BY field_name;
```

Filtering with HAVING

```
-- You use HAVING instead of WHERE if you are
-- filtering after a GROUP BY
SELECT field_name, COUNT(*)
FROM Table
GROUP BY field_name
HAVING condition;
```

Limiting results

```
-- Use LIMIT after any query to limit the number of results
SELECT * FROM Table LIMIT 10;

-- Ex) Show the 5 highest values only
SELECT field_name, COUNT(*)
FROM Table
GROUP BY field_name
ORDER BY COUNT(*) DESC
LIMIT 5;
```