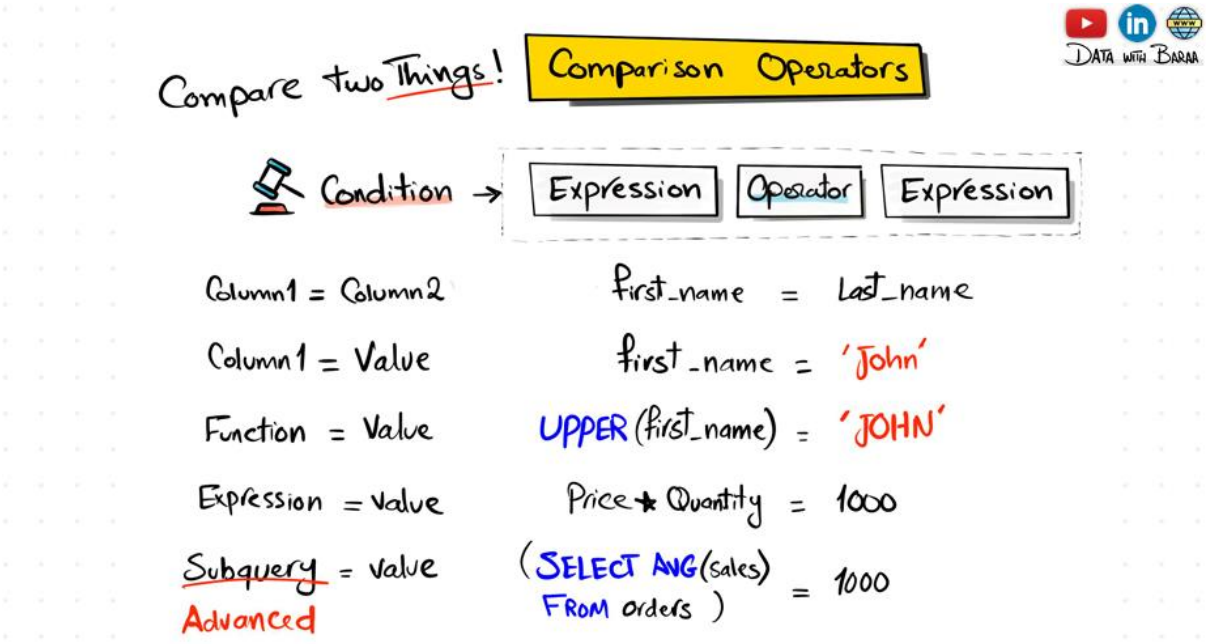
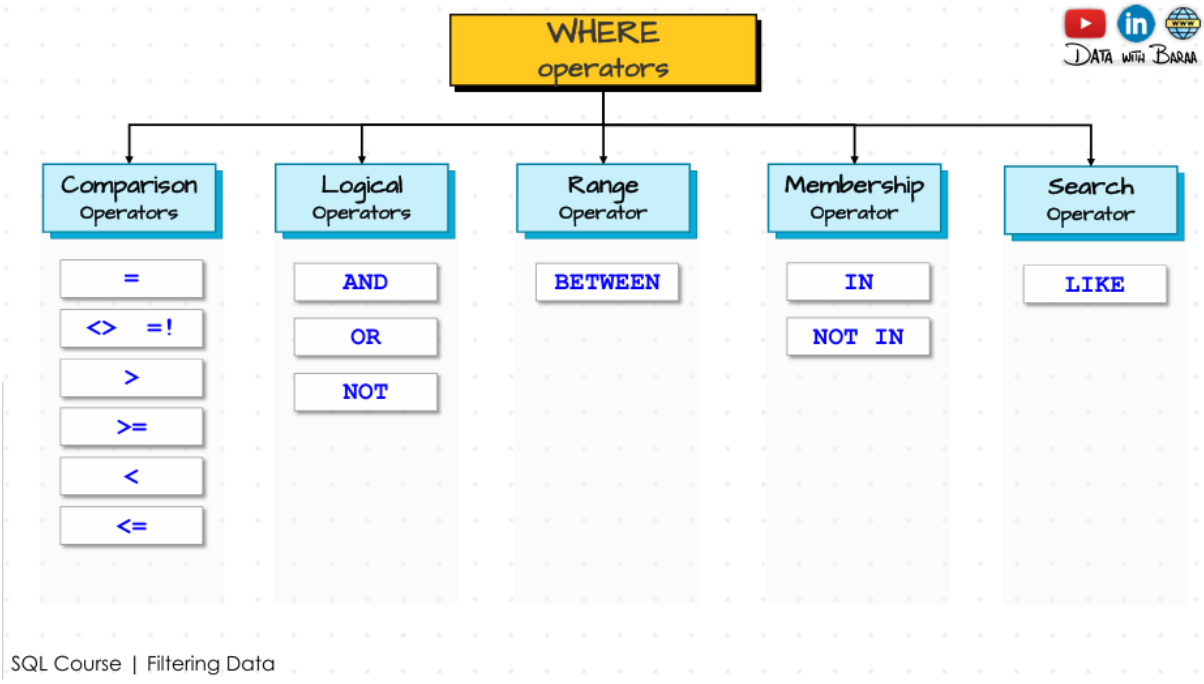
FILTERING DATA

(OPERATORS USED INSIDE WHERE CLAUSE)



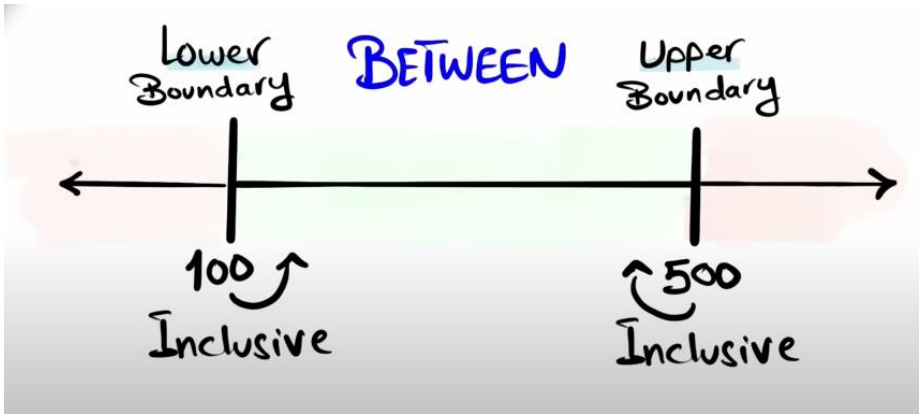


QUERY 1: Retrieve all customers with a score not less than 500.

```
SELECT *
FROM customers
WHERE NOT score<500
```

	id	first_name	country	score
1	2	John	USA	900
2	3	Georg	UK	750
3	4	Martin	Germany	500

BETWEEN OPERATOR(RANGE OPERATOR): Check if a value is in range



QUERY 1: RETRIEVE ALL CUSTOMERS WHOSE SCORE FALL IN THE RANGE BETWEEN 100 AND 500.

```
SELECT *
FROM customers
WHERE score BETWEEN 100 and 500
```

	id	first_name	country	score
1	1	Maria	Germany	350
2	4	Martin	Germany	500

It's same like using a comparison operator and logical operator.(SAME RESULTS AS ABOVE)

```
SELECT *
FROM customers
WHERE score >=100 AND score<=500
```

	id	first_name	country	score
1	1	Maria	Germany	350
2	4	Martin	Germany	500

Preferable method is this, because it is clearly visible both boundaries are included (>=100,<=500), whereas between it is confusing by seeing the values.

MEMBERSHIP OPERATOR: IN and NOT IN (Check if a value exists in a list.)

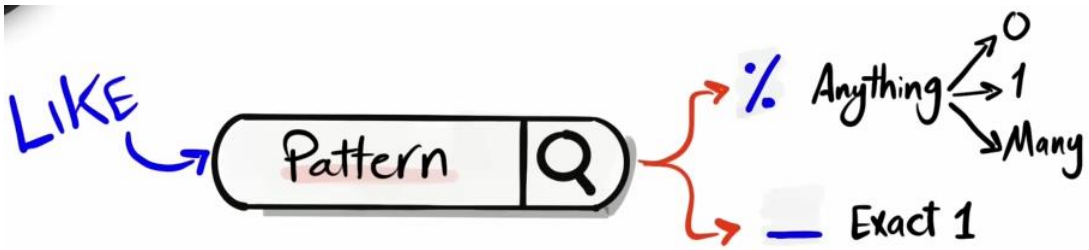
QUERY 1: RETRIEVE ALL CUSTOMERS FROM EITHER GERMANY OR USA

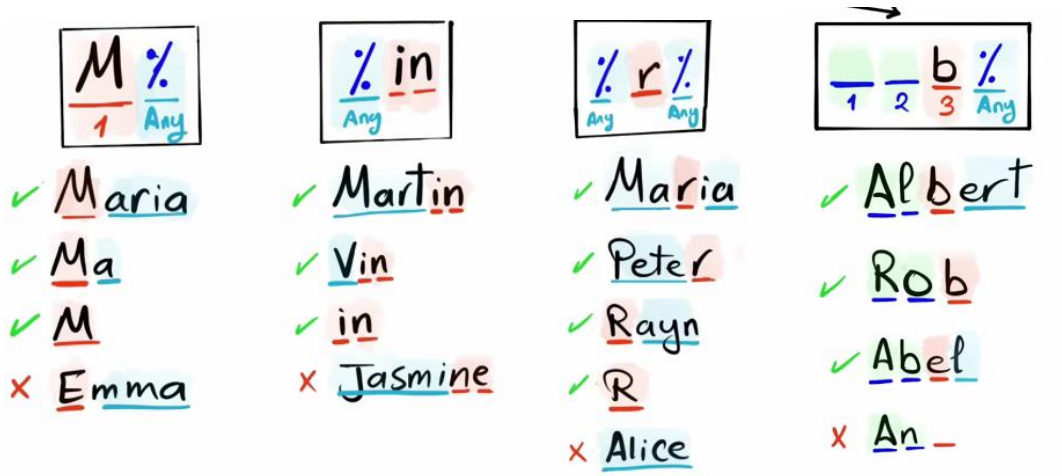
```
SELECT *
FROM customers
WHERE country IN('Germany','USA')
```

```
SELECT *
FROM customers
WHERE country = 'Germany' OR country = 'USA'
```

Use IN instead of OR for multiple values in the same column (in our case we are using only country column to filter) to simplify SQL.

SEARCH OPERATOR: LIKE (Search for a pattern in our text).





QUERY 1: FIND ALL THE CUSTOMERS WHOSE FIRST NAME START WITH 'M'.

```
SELECT *
FROM customers
WHERE first_name LIKE 'M%'
```

	id	first_name	country	score
1	1	Maria	Germany	350
2	4	Martin	Germany	500

QUERY2: FIND ALL CUSTOMERS WHOSE FIRST NAME END WITH 'n':

```
SELECT *
FROM customers
WHERE first_name LIKE '%n'
```

	id	first_name	country	score
1	2	John	USA	900
2	4	Martin	Germany	500

QUERY 3: FINAL ALL CUSTOMERS WHOSE FIRST NAME CONTAIN 'r':

```
SELECT *
FROM customers
WHERE first_name LIKE '%r%'
```

	id	first_name	country	score
1	1	Maria	Germany	350
2	3	Georg	UK	750
3	4	Martin	Germany	500
4	5	Peter	USA	0

QUERY 4: FIND ALL THE CUSTOMERS WHOSE FIRST NAME HAS 'r':

```
SELECT *
FROM customers
WHERE first_name LIKE '__r%'
```

	id	first_name	country	score
1	1	Maria	Germany	350
2	4	Martin	Germany	500