#### **SQL WHERE Clause**

#### Overview

The **SQL WHERE Clause** is used to filter records in a database query. It allows users to specify conditions that must be met for records to be selected. This clause is commonly used in **SELECT**, **UPDATE**, **DELETE**, and other **SQL** statements.

## **Syntax**

```
SELECT column1, column2, ...

FROM table_name
WHERE condition;
```

## **Example Usage**

#### **Selecting Specific Records**

The following query selects all customers from Mexico:

```
SELECT * FROM Customers
WHERE Country = 'Mexico';
```

#### Using WHERE in Different SQL Statements

UPDATE Statement:

```
UPDATE Customers
SET ContactName = 'Juan Perez'
WHERE Country = 'Mexico';
```

DELETE Statement:

```
DELETE FROM Customers
WHERE Country = 'Mexico';
```

### Text Fields vs. Numeric Fields

• Text Fields: SQL requires single quotes ( ' ') around text values.

```
SELECT * FROM Customers
WHERE Country = 'Mexico';
```

• Numeric Fields: Numbers should not be enclosed in quotes.

```
SELECT * FROM Customers
WHERE CustomerID = 1;
```



# Operators in the WHERE Clause

You can use various operators to refine your search conditions.

Operator	Description
=	Equal to
>	Greater than
<	Less than
>=	Greater than or equal to
<=	Less than or equal to
<>	Not equal to
BETWEEN	Between a range
LIKE	Search for a pattern
IN	Specify multiple possible values



#### **Example: Using Comparison Operators**

To select all customers with a **CustomerID** greater than 80:

```
SELECT * FROM Customers
WHERE CustomerID > 80;
```

### Conclusion

The SQL WHERE clause is essential for filtering data in queries. By using different operators and conditions, users can retrieve only the necessary records, making database operations more efficient.

