

8 SQL TECHNIQUES FOR DATA CLEANING





Replace NULL values with a default value or remove them based on the context.

```
SELECT COALESCE(column_name, 'DefaultValue') AS column_name FROM table_name;
```

Identify and delete duplicate rows based on key columns.

```
WITH CTE AS (
SELECT id, column1, column2,

ROW_NUMBER() OVER (PARTITION BY column1, column2 ORDER BY id) AS row_num

FROM table_name
)

DELETE FROM table_name
WHERE id IN (
SELECT id
FROM CTE
WHERE row_num > 1
);
```



Convert text to lower or upper case to ensure consistency.

SELECT LOWER(column_name) AS cleaned_column
FROM table_name;

Remove extra spaces from text fields.

SELECT TRIM(column_name) AS cleaned_column
FROM table name;



Convert date strings into a consistent date format.

```
SELECT STR_TO_DATE(column_name, '%m/%d/%Y') AS formatted_date
FROM table_name;
```

Identify and manage outliers in numerical data.

```
SELECT *
FROM table_name
WHERE column_name BETWEEN lower_limit AND upper_limit;
```



Replace or remove special characters in text fields.

```
SELECT REGEXP_REPLACE(column_name, '[^a-zA-Z0-9]', '') AS cleaned_column
FROM table_name;
```

Standardize values in categorical columns

```
UPDATE table_name
SET column_name = 'Male'
WHERE column_name IN ('M', 'male');
```

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