

Intermediate SQL – Lesson 6: Aliasing Columns and Tables

What You'll Learn

In this lesson, you'll learn how to:

- Use **aliases** to temporarily rename columns and tables
 - Improve query readability with cleaner output and more meaningful labels
 - Apply aliases in real-world scenarios including joins and aggregations
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What is Aliasing in SQL?

Aliasing is a way to give a temporary name to a column or table in your SQL query. It doesn't affect the data in your database — it's purely for readability and cleaner outputs.

Why Use Aliases?

Aliasing:

- Makes your query easier to read
 - Helps label custom or calculated columns
 - Simplifies long or complex table names
 - Clarifies which table a column is from — especially when joining multiple tables
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Column Aliases

You can rename a column in your output using an alias. This is helpful when:

- Combining columns (e.g., full names)
- Using aggregate functions (e.g., `AVG(Salary)`)
- Creating calculated or derived columns



Example:

Instead of showing a column called `no column name`, alias it as `AverageSalary` so your output is clear and meaningful.



Table Aliases

You can also shorten a **table name** using an alias. This is useful when:

- A table name is long
- You're using the same table multiple times (like in a join)
- You want to keep your query clean, especially with multiple joins



Best practice:

Use **meaningful aliases** (e.g., `demo` for `EmployeeDemographics`) instead of single-letter aliases like `a` or `b`. This helps others (and future-you) understand your query faster.



Bad Practice vs. Good Practice

 **Poor Aliasing**

```
SELECT a.EmployeeID  
  
FROM  
EmployeeDemographics AS  
a
```

 **Good Aliasing**

```
SELECT demo.EmployeeID  
  
FROM EmployeeDemographics  
AS demo
```

Avoid generic aliases like `a`, `b`, `c`. Instead, give your aliases context, like `sal` for `EmployeeSalary`.

Recap

- ✓ Aliasing helps improve **query clarity and output presentation**
- ✓ Use it for columns (especially custom or aggregated ones)
- ✓ Use it for tables in complex joins or long queries
- ✓ Avoid one-letter aliases; aim for meaningful, self-explanatory names
- ✓ Aliases are **temporary** and **do not change** your actual data