WEEK 7

Constructing a Select Statement



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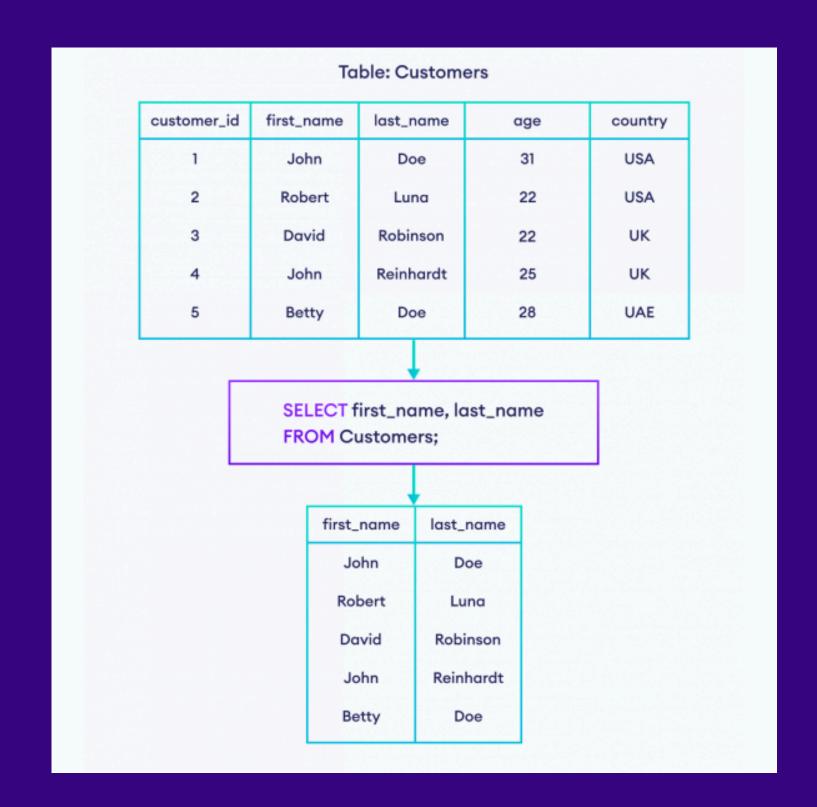


- Understand the SELECT and FROM clauses.
- Learn how to retrieve data using SQL syntax
- Explore the use of DISTINCT and ALIASES for efficient querying.
- Apply these concepts to real-world examples.
- Recap and Next Steps

Overview of SELECT Statement

What is SELECT?

- The fundamental clause for retrieving data.
- Pulls columns or manipulated data from specified tables.



What is FROM?

- Identifies the table(s) to retrieve data from.
- Specifies the database for accurate table referencing.

Using SELECT: Retrieve All Columns



Explanation:

Retrieves all columns from a table.

Using SELECT: Retrieve Specific Columns

```
Syntax Example:

sql

SELECT column_1

FROM table_a;
```

```
sql

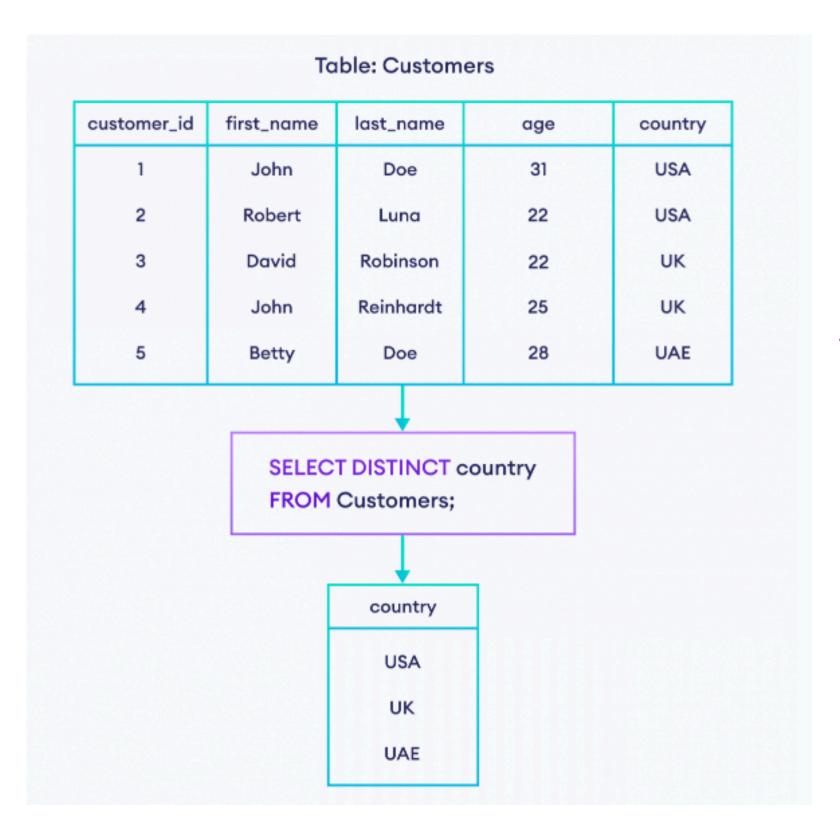
SELECT column_1, column_2, column_3

FROM table_a;
```

Explanation:

- Retrieves only the specified column(s)
- Specify multiple columns using commas

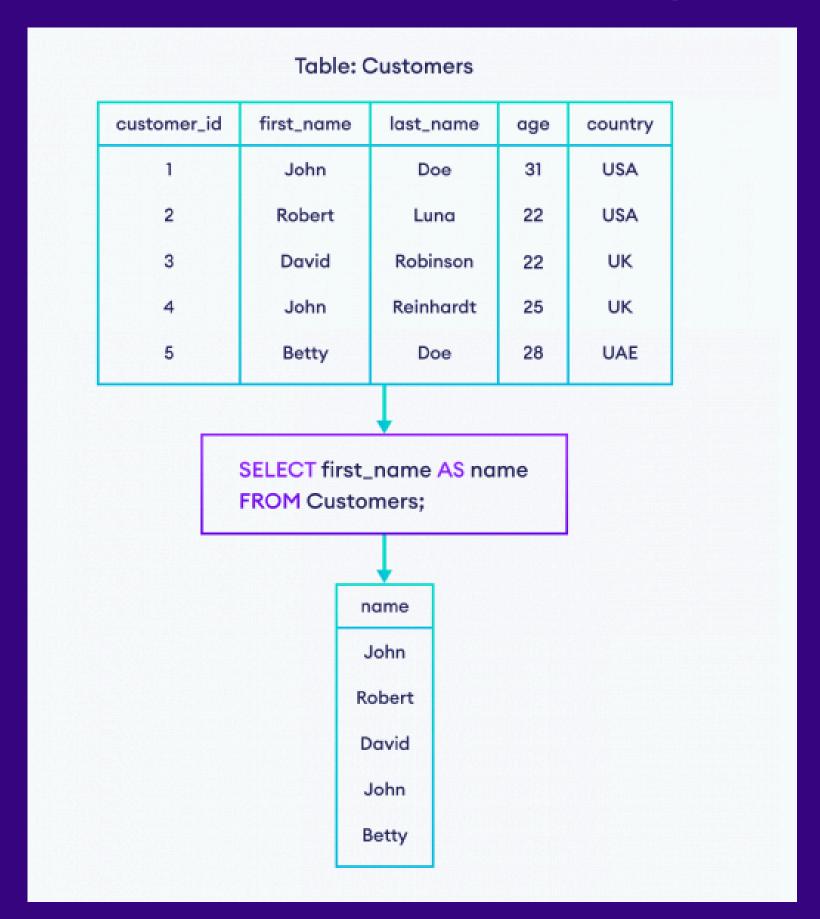
DISTINCT: Eliminating Duplicates



What is DISTINCT?

• Extracts unique values from a column.

ALIASES: Temporary Nicknames



What are ALIASES?

- Temporary names for columns and tables.
- Improve query readability and usability.

Note:

The "AS" keyword is optional.

Aliases can follow directly after the name.

Practical Application

Scenario: Retrieve unique product names and assign them a user-friendly alias.

SQL Example: sql SELECT DISTINCT product_name AS Product

Explanation:

FROM sales_data AS Sales;

Retrieves unique product names and renames them for simplicity.

Recap and Next Steps

• Summary:

- SELECT and FROM are the foundation of SQL queries.
- Use DISTINCT to filter out duplicates.
- ALIASES enhance readability and simplify complex queries.
- Always tailor queries to your data needs.
- Next Steps:
 - Complete Week 7 Quiz

