SQL Basics & Querying Data





Purpose: Specifies the columns (data) you want to retrieve from a table	
Basic Syntax:	
SQL	٥
SELECT column1, column2, FROM table_name;	
Example:	
SQL	0
SELECT customer_name, city FROM Customers;	
 Explanation: This will show you the customer_name and city for a Customers table. 	all entries in the
Selecting Everything: Use * to select all columns:	
SQL	0
SELECT * FROM Customers;	



FROM

• Purpose: Indicates the table where the data you need is located. Always follows the SELECT statement. Basic Syntax: 0 SQL SELECT ... FROM table_name; Example: 0 SQL SELECT product_name FROM Products; · Explanation: The data is in the 'Products' table.



WHERE

- · Purpose: Allows you to set conditions to filter which rows are returned.
- Syntax:

```
SELECT column1, column2, ...
FROM table_name
WHERE condition;
```

· The condition can involve comparison operators and logical operators.

= (Equal to)

```
SQL

SELECT order_id FROM Orders WHERE order_date = '2025-03-17';
```

> (Greater than)

```
SQL

SELECT product_name FROM Products WHERE price > 50.00;
```

< (Less than)

```
SQL

SELECT customer_name FROM Customers WHERE age < 30;
```

>= (Greater than or equal to), <= (Less than or equal to), != (Not equal to)



WHERE





ORDER BY

 Purpose: Sorts the result set based on one or more columns. Syntax: SQL SELECT column1, column2, ... FROM table_name ORDER BY column_to_sort [ASC|DESC]; · ASC : Ascending order (default). DESC: Descending order. Examples: SQL SELECT product_name FROM Products ORDER BY product_name; SELECT customer_name, registration_date FROM Customers ORDER BY registratio SELECT city, customer_name FROM Customers ORDER BY city ASC, customer_name



Thank you

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- Date: March 2025
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