

Structure Data Query Language

SELECT * | SEVERAL COLUMNS

NAMA_TABLE.NAMA_KOLOM AS NAMA_ALIAS
FROM NAMA_TABEL_SEMESTA

REQUEST STATEMENT

JOIN STATEMENT

JOIN NAMA_TABEL ON
NAMA_KOLOM.NAMA_TABEL_PENGHUBUNG1=NAMA_KOLOM.NAMA_TABEL_PENGHUBUNG2

WHERE (CONDITION)
AND (CONDITION)
OR (CONDITION)

FILTER STATEMENT

GROUP BY ()
ORDER BY ()

GROUP and SORT STATEMENT

*GROUP BY digunakan **harus bersamaan** dengan fungsi agregasi
Fungsi agregasi = (SUM, COUNT, AVERAGE)

HANDS ON 1



theLook eCommerce

[BigQuery Public Data](#)

Synthetic eCommerce and Digital Marketing data

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1. Akses URL → cloud.google.com/bigquery
2. Go to console
3. Create your own project
4. Go to Bigquery
5. Go to SQL Workspace
6. Run your query

--Example of Query Execution

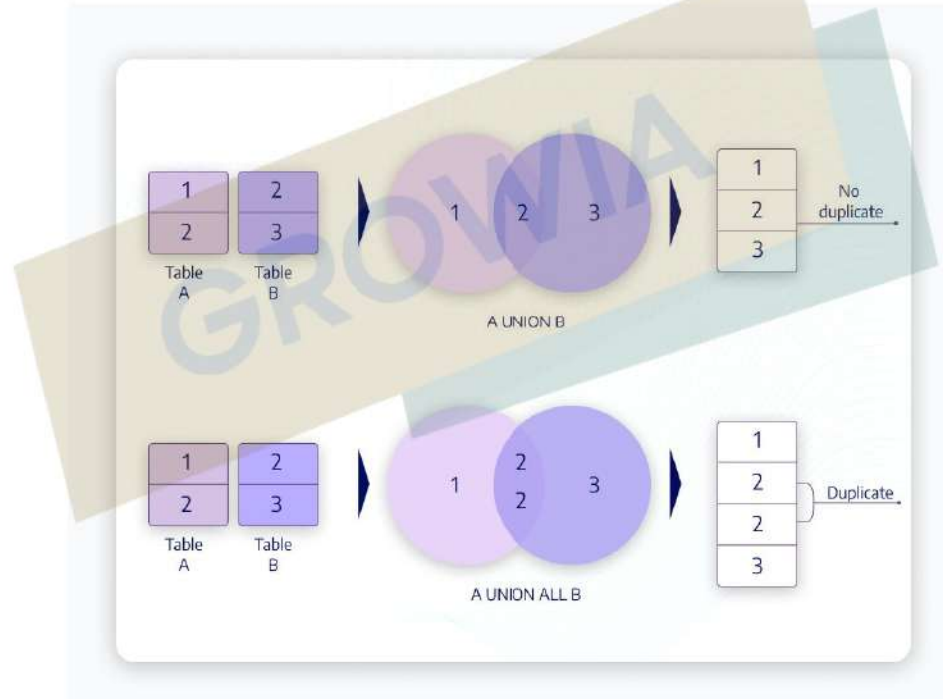
```
SELECT
country,
COUNT(DISTINCT id) jumlah_customer
FROM
`bigquery-public-data.thelook_ecommerce.users`u
WHERE
country = 'Brasil' OR age >= 25 AND gender = 'F'
GROUP BY country
ORDER BY country DESC
```

JOIN CONDITION

INNER JOIN	<div>1</div> <div>2</div> <div>3</div>	INNER JOIN	<div>A</div> <div>B</div> <div>C</div>	=	<div>1</div> <div>2</div>	<div>B</div> <div>A</div>	Only returns rows that meet the join condition
RIGHT OUTER JOIN	<div>1</div> <div>2</div> <div>3</div>	RIGHT OUTER JOIN	<div>A</div> <div>B</div> <div>C</div>	=	<div>1</div> <div>2</div>	<div>B</div> <div>A</div> <div>C</div>	Returns all rows from the table on the right side of JOIN and matched rows from the left side of the JOIN
LEFT OUTER JOIN	<div>1</div> <div>2</div> <div>3</div>	LEFT OUTER JOIN	<div>A</div> <div>B</div> <div>C</div>	=	<div>1</div> <div>2</div> <div>3</div>	<div>B</div> <div>A</div>	Returns all rows from the table on the left side of JOIN and matched rows from the right side of the JOIN
FULL OUTER JOIN	<div>1</div> <div>2</div> <div>3</div>	FULL OUTER JOIN	<div>A</div> <div>B</div> <div>C</div>	=	<div>1</div> <div>2</div> <div>3</div>	<div>B</div> <div>A</div> <div>C</div>	Returns all rows from both sides even if join condition is not met
CROSS JOIN	<div>1</div> <div>2</div> <div>3</div>	CROSS JOIN	<div>A</div> <div>B</div> <div>C</div>	=	<div>1</div> <div>1</div> <div>1</div> <div>2</div> <div>2</div> <div>2</div> <div>3</div> <div>3</div> <div>3</div>	<div>A</div> <div>B</div> <div>C</div> <div>A</div> <div>B</div> <div>C</div> <div>A</div> <div>B</div> <div>C</div>	Cartesian product between the two sides is a join but without a join condition. Returns all rows joined from both sides

UNION CONDITION

UNION vs UNION ALL



HANDS ON 2



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5. Go to SQL Workspace
6. Run your query

--Example of Query Execution

```
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GROUP BY country
ORDER BY country DESC
```

CONCLUSION

1. **SQL statements are not case-sensitive;**
2. **SQL statements can be on one or more lines;**
3. **Keywords cannot be abbreviated or split across lines;**
4. **Clauses are usually placed on separate lines;**
5. **Indents are used to enhance readability;**
6. **SQL statements can optionally be terminated by a semicolon (;).**
7. **Semicolons are required if you execute multiple SQL statements;**
8. **You are required to end each SQL statement with a semicolon (;).**

The logo consists of the word "GROWIA" in black capital letters on a yellow rectangular background, which is partially overlaid by a teal-colored shape.

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THANK YOU