


Group By in SQL (xxx VVIP)

↳ Grouping → Creating smaller chunks

Ecomm data

↳ Cust_id
↳ order_id
↳ Country
↳ date

Cust_id, order_id, Country, date

1, 100, USA, 11-Nov

2, 101, INDIA, 12-Nov

3, 105, USA, 12-Nov

3, 106, USA, 12-Nov

4, 107, INDIA, 13-Nov

6, 108, UK, 13-Nov

Q.1 ~~For~~ How many were placed on Amazon platform by each country wise?

- Create a group of records Countrywise
- For each country, Calculate the Count
- display result

After grouping
how it looks

→ for grouping we need the columns
↳ more than one columns can be used

cust_id, order_id, Country, date				
Count inside each window/group	1	100	USA	11-NOV
	3	105	USA	12-NOV
	3	106	USA	12-NOV
	2	107	INDIA	12-NOV
	4	108	INDIA	13-NOV
	6	108	UK	13-NOV

Aggregated
Data

Country	Order_Count
USA	3
INDIA	2
UK	1

Rules for grouping

→ With group by clause we can only perform aggregation functions

- ↳ Count(*)
- ↳ max(c1)
- ↳ min(c1)
- ↳ Sum(c1)
- ↳ avg(c1)

→ Apart from Group by Columns, we can use other columns in aggregation functions. They can't be used in select statement.

Syntax

✓ select c1, sum(c2) from tbl group by c1;

✗ select c1, c2 from tbl group by c1)