

HAVING

why we use **HAVING** with aggregate functions like SUM(), AVG(), COUNT().



WHERE vs HAVING

Clause	Works On	Can Use Aggregates?	Purpose
Where	Raw rows (before grouping)	NO	Filters rows before grouping
Having	Grouped rows (after GROUP BY)	Yes	Filters groups after aggregation

Why can't we use aggregates in **WHERE**?

Because **WHERE** is executed **before grouping**, so Oracle doesn't know the result of SUM(), AVG() etc. yet.

- ☐ **WHERE** filters **individual employees** before grouping.
- ☐ **HAVING** filters **grouped departments** after calculating SUM(salary).



Query execution order

1. **FROM**
2. **WHERE** → **before any grouping or aggregation.**
3. **GROUP BY**
4. **HAVING** → **groups after aggregates**
5. **SELECT**
6. **ORDER BY**