



Category	Verb Examples	Effect of <code>group_by()</code>	Explanation
 Summarizing / Aggregating	<code>summarize()</code> , <code>summarise()</code> , <code>reframe()</code>	✔ Yes	Calculates summaries <i>within each group</i> (e.g., mean per state).
 Row Filtering	<code>filter()</code>	✔ Yes	Keeps rows <i>within groups</i> that meet the condition (e.g., max per group).
 Within-Group Mutation	<code>mutate()</code> , <code>transmute()</code>	✔ Yes	New variables use group-specific values (e.g., mean, rank).
 Row Slicing	<code>slice_head()</code> , <code>slice_max()</code> , <code>slice_sample()</code>	✔ Yes	Selects rows <i>within each group</i> .
 Group Operations	<code>group_map()</code> , <code>group_modify()</code> , <code>group_split()</code>	✔ Yes	Explicitly runs code or returns data per group.
 Sorting / Ordering	<code>arrange()</code>	⚠ No (ignores grouping)	Still sorts the <i>whole</i> dataset; grouping info is kept but not used.
 Column Operations	<code>select()</code> , <code>rename()</code> , <code>relocate()</code>	🚫 No	Affects columns only — grouping unchanged.
 Distinct / Counting	<code>distinct()</code> , <code>count()</code>	⚠ Partially	<code>distinct()</code> ignores groups unless <code>.keep_all=TRUE</code> ; <code>count()</code> creates its own grouping.
 Ungrouping / Structure	<code>ungroup()</code>	✔ Removes groups	Clears grouping so later verbs act on the full dataset.