

# Multiple Group Summary Statistics: Takeaways



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## Syntax

- Counting rows grouped by several columns:

```
SELECT group_column_1, group_column_2, COUNT(*) AS num_row
FROM table
GROUP BY group_column_1, group_column_2;
```

- Computing statistics grouped by several columns:

```
SELECT group_column_1, group_column_2, AVG(col) AS avg_col, MIN(col) AS min_col, MAX(col)
AS min_col
FROM table
GROUP BY group_column_1, group_column_2;
```

- Adding conditions on an aggregated column:

```
SELECT group_column_1, group_column_2, AVG(col) AS avg_col, MIN(col) AS min_col, MAX(col)
AS min_col
FROM table
GROUP BY group_column_1, group_column_2
HAVING condition_on_aggregated_columns;
```

- Combining WHERE and HAVING clauses:

```
SELECT group_column_1, group_column_2, AVG(col) AS avg_col, MIN(col) AS min_col, MAX(col)
AS min_col
FROM table
WHERE conditions
GROUP BY group_column_1, group_column_2
HAVING condition_on_aggregated_columns;
```

## Concepts

- Aggregate functions allow operations combining several rows over groups.
- We can aggregate rows grouped by several columns.
- With the new clause, the new SQL order of clauses is as follows:

```
SELECT > FROM > WHERE > GROUP BY > HAVING > ORDER BY > LIMIT
```

- With the new clause, the new SQL execution order is as follows:

```
FROM > WHERE > GROUP BY > HAVING > SELECT > ORDER BY > LIMIT
```

## Resources

- [SQL aggregate functions](#)

