Aggregate Functions and Group By

Aggregate Functions

- Can reference in select or order by statements

- min(ColumnName)
- max(ColumnName)
- sum(ColumnName)
- avg(ColumnName)
- count(ColumnName)

Count the Unique Values

- **count**(**distinct** ColumnName)

Give your aggregates aliases

```sql
select count(ColumnName) as Total
from TableName;
```

group by

- Displays information aggregated by a certain column(s)
- Must use with an aggregate – can be in the select or in the order by following

select Column1, agg(Column2)
from TableName
group by ColumnName

select Column1
from TableName
group by ColumnName
order by agg(Column2)

having

- group by for aggregate functions

select Column1
from TableName
having agg(Column2)