10/1/18 Notes

Aggregate Queries

- **GROUP BY** - the fields to group together to apply an aggregate function to
  - *Ex.* If you're trying to find the average GPA of each major given a table of students, their major, and their GPA, you may want to **GROUP BY** major

- **HAVING** - SQL statement to specify that only aggregate values meeting a specific condition should be returned by the **SELECT** clause
  - Unaggregated fields in the **SELECT** clause must be a subset of the ones specified in the **GROUP BY** clause

- **COUNT()** - counts the amount of values of a field
  - **COUNT(*)** will return even **NULL** values
  - **COUNT(field)** will return the count of that field, excluding **NULL** values
  - **COUNT(DISTINCT field)** will return the number of distinct values of a field