SQL Cheatsheet

Last updated Fall 2019

Disclaimer: These are not official class notes. They're just meant to be a quick reference. Please let me know if there are any typos or mistakes.

Creating a table

```
CREATE TABLE <name> AS

SELECT <value> AS <name>, <value> AS <name> ... UNION

SELECT <value> , <value> ... UNION

...;
```

Simple Query

```
SELECT <column list>
FROM ;
```

Full Query

```
SELECT <column list>
FROM 
[WHERE] <condition> AND <condition> ...
[GROUP BY] <column list>
[HAVING] <condition> AND <condition> ...
[ORDER BY] <column> ASC/DESC, <column> ASC/DESC
[LIMIT] <amount>;
```

Notes:

- SELECT: selects columns from a table, can give column name if use AS
- FROM: signals which tables to SELECT from
- WHERE: used to condition on FROM, combine conditions with AND
- GROUP BY: groups rows of the query on a col
- HAVING: is used to condition on GROUP BY
- ORDER BY: defaults to ASC (ascending), use DESC for descending

SQL Strategy

Notes

- capitalization for keywords doesn't matter
- only need to alias tables that share column names
- joining two tables is like taking the cross product
- don't forget semicolons!