# Introduction to MySQL Session II

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# Quick review

- SELECT
  - How many games are being played in week 9?
  - How many players have projections in week 7?
  - What's the most projected passing touchdowns in week 11?
  - How many RBs do we have projected stats for in week 15?

#### A useful WHERE function

- LIKE
  - SELECT \* FROM players WHERE name LIKE '%John%';

#### GROUP BY

- What if we want to run the aggregate functions over a group?
  - Total points by player
  - Number of games per week
  - Number of players by position
  - Number of games for each home/away team pair

#### GROUP BY

 SELECT [fields], [aggregate\_function] FROM [table] GROUP BY [fields];

#### GROUP BY

- SELECT player\_id, sum(points) FROM stats GROUP BY player\_id;
- SELECT week, count(\*) FROM schedule GROUP BY week;
- SELECT position\_id, count(\*) FROM players GROUP BY position\_id;
- SELECT home\_id, away\_id, count(\*) FROM schedule GROUP BY home\_id, away\_id;

# Exercises

 https://github.com/dangoldin/mysql-class/blob/ master/session2/exercises2.md

# JOIN

 So far, we've only been doing queries on a single table.

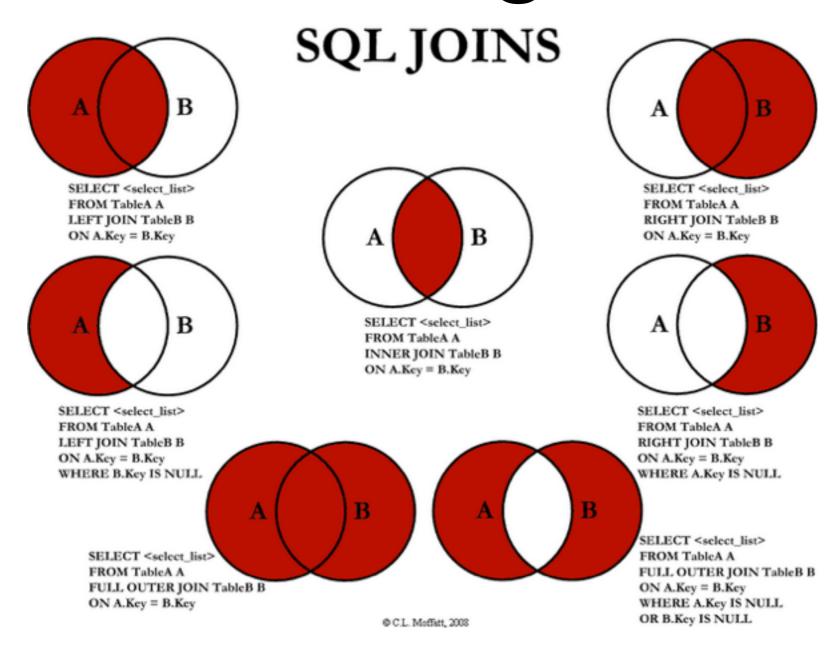
#### JOIN

- Multiple table joins
  - SELECT [fields] FROM [table1] JOIN [table2] ON [join condition];

### JOIN

 SELECT \* FROM players JOIN positions ON players.position\_id = positions.id;

# Inner, Left, Right JOINs



• From: <a href="http://www.codeproject.com/Articles/33052/Visual-Representation-of-SQL-Joins">http://www.codeproject.com/Articles/33052/Visual-Representation-of-SQL-Joins</a>

# Exercises

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