

Outer Join

- Run command -
 - **set hive.auto.convert.join=false;**
- Find the count of those users for every country who have successfully submitted a solution.
 - Those users who have successfully submitted a solution -
 - **select country, count(distinct users.user_id) Count from users
inner join submissions on users.user_id=submissions.user_id
group by country order by Count;**
 - A left join would return all users, who have and haven't submitted a solution -
 - **select country, count(distinct users.user_id) Count from users left
join submissions on users.user_id=submissions.user_id group by
country order by Count;**
 - To only find users who haven't submitted a solution, we filter the data -
 - **select country, count(distinct users.user_id) Count from users left
join submissions on users.user_id=submissions.user_id where
problem_id is null group by country order by Count;**
- Full outer join in Hive -
 - **select * from users full outer join submissions on
users.user_id=submissions.user_id;**

- **Exercise** - Find the count of those problems that were not solved by any user.