

## Chapter 5 – Query Execution

### Exercise

1. Use EXPLAIN to view the execution plan for this query:  

```
hive> EXPLAIN SELECT count(1) FROM Movies  
WHERE movie_name LIKE '%Star%';
```
2. Find the "Filter Operator". What is it doing?
3. Find the "Group By Operator". What is it doing?
4. Use EXPLAIN to view the execution plan for the query in step 6 of the previous lab.  

```
hive> EXPLAIN SELECT movie_name, avg(rating) AS avgrating  
FROM movies JOIN userratings  
ON (movies.movieid = userratings.movieid)  
WHERE sci_fi= 1  
GROUP BY movie_name  
ORDER BY avgrating DESC LIMIT 1;
```
5. How many MapReduce phases are required?
6. For the first MapReduce (Stage-1), what is the "Filter Operation" doing on the movies table?
7. What is the reduce doing in Stage-1?
8. What is the general purpose of the second MapReduce (Stage-2)?
9. How does the ORDER BY get done?