

# Leadsquared Online Test

## Reports Developer

### Section 1: Queries

1. SELECT Department, COUNT (\*) FROM Employee GROUP BY Department
2. SELECT First\_Name, Last\_Name, Department, MAX(Manager) FROM Employee GROUP BY Department
3. SELECT SUM(Incentive\_Amount) FROM Employee INNER JOIN Incentives ON Employee\_Ref\_ID = Employee\_ID WHERE First\_Name = "John" AND MONTH(Incentive\_Date) = "JAN"
4. SELECT First\_Name, Last\_Name, MONTH (Incentive\_Date), MAX(Incentive\_Amount) FROM Employee, Incentives WHERE Employee\_Ref\_ID = Employee\_ID)

### Section 2:

5. Two sand timers 4 minutes and 7minutes respectively,  
Start Flipping both 4 and 7 minute times at a time, at the end of 4<sup>th</sup> minute flip the 4 minute timer (then 3 minutes is still left in 7 minute timer), at the end of 7<sup>th</sup> minute flip the 7 minute timer (at this moment 1 minute is still left in 4 minute timer), at the end of 8<sup>th</sup> minute flip both the timers( at this moment 1 minute is calculated in 7 minute timer and when it is flipped we can calculate 1 minute) by this we can calculate 9 minutes time.
6. Probability of other child is also a girl is 1/3 (because total possible results is boy-girl,girl-boy,girl-girl and we can eliminate boy-boy as they have provided with the information that 1 child is a girl, by this total outcomes is 3 and expected outcomes is 1, **probability = expected outcomes/total outcomes** )
- 7.