## Spark DF, SQL, ML Exercise

## **GBM - CV Model Evaluate**

```
Cmd 79
   print_performance_metrics(gbCvPredictions)
  auc = 0.8989499756467929
  aupr = 0.7665167913162426
  Area under PR = 0.6435054710769732
  Area under ROC = 0.7508083832335329
  Accuracy = 0.8484006993726216
  DenseMatrix([[ 6919., 429.],
               [ 1045., 1330.]])
  F1 = 0.8401553392826959
  Precision = 0.8412623026104288
  Recall = 0.8484006993726216
  FPR = 0.34678393290555576
  TPR = 0.8484006993726216
Command took 21.18 seconds -- by a user at 6/15/2018, 7:01:12 AM on unknown cluster and 80
```

## **Logistic Regression - Model Explore**