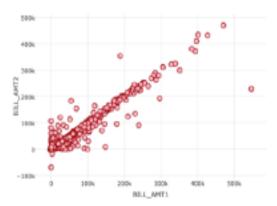
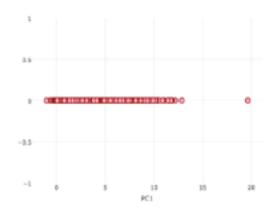


Principal Components Analysis

 Orthogonal rotation of covariance or correlation matrix that orders derived measures from highest to lowest variation Useful for dimensionality reduction / removing collinearities





H20 Principal Components Analysis

```
h2o.prcomp(training_frame, x, model_id = NULL, validation_frame = NULL, ignore_const_cols = TRUE, score_each_iteration = FALSE, transform = c("NONE", "STANDARDIZE", "NORMALIZE", "DEMEAN", "DESCALE"), pca_method = c("GramSVD", "Power", "Randomized", "GLRM"), k = 1, max_iterations = 1000, use_all_factor_levels = FALSE, compute_metrics = TRUE, impute_missing = FALSE, seed = -1, max_runtime_secs = 0)
```

from h2o.estimators.pca import H2OPrincipalComponentAnalysisEstimator
pca = H2OPrincipalComponentAnalysisEstimator(...)
pca.train(x = x, training_frame = data)





Principal Components Analysis

- Orthogonal rotation of covariance or correlation matrix that orders derived measures from highest to lowest variation
- Useful for dimensionality reduction / removing collinearities



