```
//Projection, excluded because Neo4J does not allow string in projection
CALL gds.graph.project(
 'author-coauthorship-graph',
 ['Author'],
 {
  CO AUTHORED: {
   orientation: 'UNDIRECTED',
   aggregation: 'SINGLE'
  }
}
);
// Pipeline created
CALL gds.beta.pipeline.linkPrediction.create('author-lp');
// degree and fastRP properties added
CALL gds.beta.pipeline.linkPrediction.addNodeProperty('author-lp', 'degree', {
 mutateProperty: 'degree'
});
CALL gds.beta.pipeline.linkPrediction.addNodeProperty('author-lp', 'fastRP', {
 mutateProperty: 'embedding',
 embeddingDimension: 64
});
// hadmard chosen for feature extraction
CALL gds.beta.pipeline.linkPrediction.addFeature('author-lp', 'hadamard', {
 nodeProperties: ['embedding']
});
// Train & Test configuration
CALL gds.beta.pipeline.linkPrediction.configureSplit('author-lp', {
 trainFraction: 0.1,
 testFraction: 0.1,
 negativeSamplingRatio: 1.0
});
// Random forest chosen as the prediction model
CALL gds.beta.pipeline.linkPrediction.addRandomForest('author-lp', {
```

```
numberOfDecisionTrees: 10
});
// Model Training
CALL gds.beta.pipeline.linkPrediction.train('author-coauthorship-graph', {
 pipeline: 'author-lp',
 modelName: 'author-lp-model',
 targetRelationshipType: 'CO AUTHORED'
});
// Link Prediction
CALL gds.beta.pipeline.linkPrediction.predict.stream('author-coauthorship-graph', {
 modelName: 'author-lp-model',
 writeRelationshipType: 'PREDICTED CO AUTHOR',
 topN: 2
})
YIELD node1, node2, probability
WITH gds.util.asNode(node1) AS author1, gds.util.asNode(node2) AS author2, probability
WHERE NOT (author1)-[:CO AUTHORED]-(author2)
RETURN author1.name AS Author1, author2.name AS Author2, probability
ORDER BY probability DESC
LIMIT 20;
```