**Advanced Databases**

**Cassandra CA**

**Student Number:** <<insert your student number here>>

**Student Name:** << insert your name here>>

**Programme Code:** <<TU856/TU857/TU858 delete as appropriate>>

1. Setting up the cluster and keyspace

<<describe your cluster, now many nodes etc.>>

<<use nodetool status to verify that the cluster is up and normal, include a screenshot, comment on the information provided>>

<<describe your keyspace – what partitioning strategy have you used and why, what replication factor have you used and why>>

1. Porting the data to Cassandra

<<use nodetool status to show the difference from your initial cluster, include a screenshot, comment on the differences to the initial cluster>>

<<use nodetool tablestats to investigate your table, comment on key pieces of information>>

1. Golf data
   1. Basic query on golf data

<<use tracing, capture the output and include it here, comment on what is happening>>

* 1. Query of non-primary index (without index)

<<use tracing, capture the output and include it here, comment on what is happening>>

* 1. Adding a secondary index to golf data

<<use tracing, capture the output and include it here, comment on what is happening>>

<<use nodetool tablestats to investigate your table, comment on key pieces of

information>>

* 1. Adding an SASI index to golf data to facilitate pattern matching

<<use tracing, capture the output and include it here, comment on what is happening>>

<<use nodetool tablestats to investigate your table, comment on key pieces of

Information and differences>>

1. Data including collection data type
   1. Query of non-primary index (without index)

<<use tracing, capture the output and include it here, comment on what is happening>>

* 1. Adding a secondary index

<<use tracing, capture the output and include it here, comment on what is happening>>

<<use nodetool tablestats to investigate your table, comment on key pieces of

Information>>