**Assignment 5 – Ron Garcia**

**Chebotko Diagram**

**A picture containing text, whiteboard

Description automatically generated**

**Queries**

1. Q1 – We are searching by a named person, so that’s part of our primary key. We are also adding university name as a cluster column. I am assuming that a near distance means less than 100 km.

*SELECT university\_name, university\_phone, university\_address, person\_name FROM assignment5.universities\_near\_person WHERE person\_name = 'Ron Garcia' AND distance\_km < 100 ALLOW FILTERING;*

1. Q2 – We are getting the details for a given university name. Our application will take care of the duplicated values

*SELECT university\_name, university\_phone, university\_address FROM assignment5.universities\_near\_person WHERE university\_name = 'University of Victoria' ALLOW FILTERING;*

1. Q3 – This query is the review of Q1 – looking for universities near a person, rather than people near a university. We are using the same universities\_near\_person table and the same criterion for the distance – “near” means < 100 km

*SELECT person\_name FROM assignment5.universities\_near\_person WHERE university\_name = 'University of Victoria' AND distance\_km < 100 ALLOW FILTERING;*

1. Q4 – I am assuming for this query that the available\_courses\_by\_registration\_date table has an up-to-date is\_avaliable value based on the current day, thus I am using the is\_avalialable Boolean attribute as part of the WHERE clause.

*SELECT \* FROM assignment5.available\_courses\_by\_registration\_date WHERE university\_name = 'University of Victoria' AND is\_available = true ALLOW FILTERING;*

1. Q5 - We are getting the details for a given person name. Our application will take care of the duplicated values

*SELECT person\_name, person\_phone, person\_address FROM assignment5.universities\_near\_person WHERE person\_name = 'Ron Garcia' ALLOW FILTERING;*

**Commands to execute:**

cqlsh> DROP KEYSPACE assignment5;

cqlsh> SOURCE '/your path …./assignment5\_RonGarcia.cql'

cqlsh> SOURCE '/your path …./assignment5\_queries\_RonGarcia.cql'