

Cassandra Assignment

Prerequisites: Setup Cassandra (Installation Instructions already provided)

Objectives : Understand how to design Data Model for Cassandra using Chebotko Diagrams

Deliverables: There are 2 deliverables.

1. Draw Logical Data Model using Chebotko Diagram
2. cql file that creates the keyspace, tables, types as required (Add 2 rows of any sample data for all the tables created)

Problem: Design data model for a database which stores information about all universities which offer a course in Data Science.

Each university has following information: (Name, Phone, Address)

Each course has following information : (Course Name, ID, Cost, Course Registration Date)

Each person has following information: (Name, Phone, Address)

Assumptions: Distance km range between a university and a person is already available.

Design a Data Model for storing data in Cassandra based on these Query requirements

Q1. Find universities(including university info) near a person

Q2. Find information about a given university

Q3. Find people(Only names) interested near a university

Q4. Find courses whose registration date is in future based on universities found in Q1.

Q5. Find details about a person found in Q3.

Resources(Video on Chebotko by DataStax): <https://academy.datastax.com/units/logical-chebotko-diagrams>