**ARINDA HILLARY**

**DBMS**

**LAB 4: Cassandra**

**3/15/2024**

**PART 2**

**﻿**Write the following queries:

1. [1] Retrieve all data from the user with email 'joe@datastax.com'.

select \* from ratings\_by\_user where email='joe@datastax.com' ;

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2) [1] Retrieve all rating data from the user with email 'joe@datastax.com' for the

movie 'Alice in Wonderland' from the year 2010

SELECT \* FROM ratings\_by\_user WHERE email='joe@datastax.com' AND title='Alice in Wonderland';

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**PART 3**

﻿3) [1] Write the query to select all ratings for 'Alice in Wonderland' from 2010.

Submit the CQL code and the output from the CQL shell.

select \* from ratings\_by\_movie where title ='Alice in Wonderland' and year=2010

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**PART 4**

﻿**4) [5] Design the tables that you need in Cassandra.**

**Create these tables in Cassandra and populate the tables with the given data**

**above.**

**﻿a. Get all courses for a specific student in ascending order of course number.**

CREATE TABLE courses\_by\_student (

student\_number text,

student\_name text,

course\_number text,

course\_name text,

PRIMARY KEY ((student\_number), course\_number)

);

INSERT INTO courses\_by\_student (student\_number, student\_name, course\_number, course\_name) VALUES ('S122', 'James Black', 'CS522', 'Databases');

INSERT INTO courses\_by\_student (student\_number, student\_name, course\_number, course\_name) VALUES ('S122', 'James Black', 'CS430', 'Programming 1');

INSERT INTO courses\_by\_student (student\_number, student\_name, course\_number, course\_name) VALUES ('S145', 'Frank Brown', 'CS430', 'Programming 1');

INSERT INTO courses\_by\_student (student\_number, student\_name, course\_number, course\_name) VALUES ('S145', 'Frank Brown', 'CS522', 'Databases');

INSERT INTO courses\_by\_student (student\_number, student\_name, course\_number, course\_name) VALUES ('S145', 'Frank Brown', 'CS458', 'Programming 2');

INSERT INTO courses\_by\_student (student\_number, student\_name, course\_number, course\_name) VALUES ('S265', 'James Bond', 'CS458', 'Programming 2');

**﻿b. Get all students from a specific course.**

CREATE TABLE students\_by\_course (

course\_number text,

course\_name text,

student\_number text,

student\_name text,

PRIMARY KEY ((course\_number), student\_number)

);

INSERT INTO students\_by\_course (course\_number, course\_name, student\_number, student\_name) VALUES ('CS522', 'Databases', 'S122', 'James Black');

INSERT INTO students\_by\_course (course\_number, course\_name, student\_number, student\_name) VALUES ('CS430', 'Programming 1', 'S122', 'James Black');

INSERT INTO students\_by\_course (course\_number, course\_name, student\_number, student\_name) VALUES ('CS430', 'Programming 1', 'S145', 'Frank Brown');

INSERT INTO students\_by\_course (course\_number, course\_name, student\_number, student\_name) VALUES ('CS522', 'Databases', 'S145', 'Frank Brown');

INSERT INTO students\_by\_course (course\_number, course\_name, student\_number, student\_name) VALUES ('CS458', 'Programming 2', 'S145', 'Frank Brown');

INSERT INTO students\_by\_course (course\_number, course\_name, student\_number, student\_name) VALUES ('CS458', 'Programming 2', 'S265', 'James Bond');

**5) [2] Write the 2 given queries and see if they work.**

**Submit the CQL code and the output from the CQL shell.**

1. **﻿Get all courses for a specific student in ascending order of course number.**

select \* from courses\_by\_student where student\_number = 'S122' ORDER BY course\_number ASC;

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1. **﻿Get all students from a specific course**

select \* from students\_by\_course where course\_number='CS430' ;

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