**CASSANDRA LAB MANUAL**

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1. **Create a keyspace named customer**

CREATE KEYSPACE customer WITH REPLICATION = { ‘class’:’SimpleStrategy’, ‘replication\_factor’:1};

1. **DESCRIBE – details the keyspaces**

DESCRIBE KEYSPACES;

1. **creates the table structure in the keyspace**

CREATE TABLE cust\_info (cust\_id INT PRIMARY KEY, cust\_name TEXT, cust\_addr TEXT);

1. **Create data**

INSERT INTO cust\_info(cust\_id, cust\_name, cust\_addr) VALUES (1101, ‘William’, ‘CA’)

1. **Read data**

SELECT cust\_id, cust\_name, cust\_addr FROM cust\_info;

1. **Update data**

UPDATE cust\_info SET cust\_addr=‘WA’ WHERE cust\_name = ‘William’;

1. **Delete data**

DELETE FROM cust\_info WHERE cust\_name = ‘William’;

1. **Add new list type collection**

ALTER TABLE cust\_info ADD cust\_phone list<text>;

1. **Insert multiple values to list type collections**

UPDATE cust\_info SET cust\_phone = cust\_phone + {‘816-234-789’,’212-456-789’} WHERE cust\_name = ‘William’;

1. **Read multiple values from cust\_phone column**

SELECT cust\_name, cust\_phone FROM cust\_info WHERE cust\_name = ‘William’;

1. **Delete values from cust\_phone column**

UPDATE cust\_info SET cust\_phone = cust\_phone – {’212-456-789’};

1. **Delete all the values from cust\_phone column**

UPDATE cust\_info SET cust\_phone = []

1. **Add a billing info column to store billing date and amount**

ALTER TABLE cust\_info ADD billing\_info MAP<timestamp, float>;

1. **Update one billing cycle for customer ‘William’**

UPDATE cust\_info SET billing\_info = {‘2021-08-15’:1200.00} WHEREcust\_name = ‘William’;

1. **Update another billing cycle for customer ‘William’**

UPDATE cust\_info SET billing\_info = {‘2021-09-15’:800.00} WHEREcust\_name = ‘William’;

1. **Modify the billing info for ‘William’ and billing cycle ‘2021-09-15’**

UPDATE cust\_info SET billing\_info[‘2021-09-15’] = 1100.00 WHERE cust\_name = ‘William’;

1. **Delete the billing info for ‘William’ and billing cycle ‘2021-09-15’**

DELETE billing\_info[‘2021-09-15’] FROM cust\_info WHERE cust\_name = ‘William’;

1. **Add an OTP value to cust\_info table**

ALTER TABLE cust\_info ADD OTP\_value text

1. **Insert a OTP generated for customer ‘William’ valid for 180 seconds only.**

UPDATE cust\_info USING TTL 180 SET OTP\_value = ‘1234’ WHERE cust\_name = ‘William’;

1. **Insert OTP generated for customer ‘William’ valid for 1 day (60\*60\*24 = 86400)**

UPDATE cust\_info USING TTL 86400 SET OTP\_value = ‘5678’ WHERE cust\_name = ‘William’;