**IS 456 IT Database Systems Management**

**HOP01A Basic SQLite Queries**

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**Before You Start**

* The directory path shown in screenshots may be different from yours.
* Some steps are not explained in the tutorial**.** If you are not sure what to do:
  1. Consult the resources listed below.
  2. If you cannot solve the problem after a few tries, ask a TA for help.

**Learning Outcomes**

Students will be able to:

Students will be able to:

* Understand the SQLite queries.
* Run queries in SQLite.
* Build a table

Execute the following statement: -

-- 03 The SELECT statement

-- world.db

SELECT 'Hello, World';

SELECT 'Hello, World' AS Result;

SELECT \* FROM Country;

SELECT \* FROM Country ORDER BY Name;

SELECT Name, LifeExpectancy FROM Country ORDER BY Name;

SELECT Name, LifeExpectancy AS "Life Expectancy" FROM Country ORDER BY Name;

-- 04 Selecting Rows

-- world.db

SELECT Name, Continent, Region FROM Country;

SELECT Name, Continent, Region FROM Country WHERE Continent = 'Europe';

SELECT Name, Continent, Region FROM Country WHERE Continent = 'Europe' ORDER BY Name;

SELECT Name, Continent, Region FROM Country WHERE Continent = 'Europe' ORDER BY Name LIMIT 5;

SELECT Name, Continent, Region FROM Country WHERE Continent = 'Europe' ORDER BY Name LIMIT 5 OFFSET 5;

-- 05 Selecting Columns

-- world.db

SELECT \* from Country;

SELECT Name, Continent, Region from Country;

SELECT Name AS Country, Continent, Region from Country;

SELECT Name AS Country, Region, Continent from Country;

-- 06 Counting Rows

-- world.db

SELECT COUNT(\*) FROM Country;

SELECT COUNT(\*) FROM Country WHERE Population > 1000000;

SELECT COUNT(\*) FROM Country WHERE Population > 100000000;

SELECT COUNT(\*) FROM Country WHERE Population > 100000000 AND Continent = 'Europe' ;

SELECT COUNT(\*) FROM Country;

SELECT COUNT(LifeExpectancy) FROM Country;

-- 07 Inserting Data

-- test.db

SELECT \* FROM customer;

INSERT INTO customer (name, address, city, state, zip)

VALUES ('Fred Flintstone', '123 Cobblestone Way', 'Bedrock', 'CA', '91234');

INSERT INTO customer (name, city, state)

VALUES ('Jimi Hendrix', 'Renton', 'WA');

-- 08 Updating Data

-- test.db

SELECT \* FROM customer;

UPDATE customer SET address = '123 Music Avenue', zip = '98056' WHERE id = 5;

UPDATE customer SET address = '2603 S Washington St', zip = '98056' WHERE id = 5;

UPDATE customer SET address = NULL, zip = NULL WHERE id = 5;

-- 09 Deleting Data

-- test.db

SELECT \* FROM customer WHERE id = 4;

DELETE FROM customer WHERE id = 4;

SELECT \* FROM customer;

DELETE FROM customer WHERE id = 5;

SELECT \* FROM customer;

Provide at least 3 screenshots as part of HOP submission.

Write a 150-word summary to explain your understandings and findings from this lab assignment.