**Lab 4**

Code:

--CREATE TABLE fruits (

--fruit\_id INT PRIMARY KEY,

--F\_name VARCHAR(50),

--color VARCHAR(20),

--taste VARCHAR(50),

--season VARCHAR(20)

--);

--select \* from fruits;

--INSERT INTO fruits (fruit\_id, F\_name, color, taste, season)

--VALUES (1, 'Apple', 'Red', 'Sweet', 'Autumn'),

--(2, 'Banana', 'Yellow', 'Sweet', 'All year round'),

--(3, 'Orange', 'Orange', 'Sweet', 'Winter'),

--(4, 'Strawberry', 'Red', 'Sweet', 'Spring'),

--(5, 'Blueberry', 'Blue', 'Sweet', 'Summer'),

--(6, 'Pineapple', 'Yellow', 'Sweet and tangy', 'All year round'),

--(7, 'Mango', 'Yellow', 'Sweet', 'Summer')

--CREATE TABLE nutrients (

--nutrient\_id INT PRIMARY KEY,

--N\_name VARCHAR(50),

--unit VARCHAR(20)

--);

--INSERT INTO nutrients (nutrient\_id, N\_name, unit)

--VALUES (1, 'Vitamin C', 'mg'),

--(2, 'Potassium', 'mg'),

--(3, 'Fiber', 'g'),

--(4, 'Vitamin A', 'IU'),

--(5, 'Calcium', 'mg'),

--(6, 'Iron', 'mg');

--select \*from nutrients;

--CREATE TABLE fruit\_nutrients (

--fruit\_id INT,

--nutrient\_id INT,

--amount DECIMAL(10,2),

--FOREIGN KEY (fruit\_id) REFERENCES fruits(fruit\_id),

--FOREIGN KEY (nutrient\_id) REFERENCES nutrients(nutrient\_id)

--);

--INSERT INTO fruit\_nutrients (fruit\_id, nutrient\_id, amount)

--VALUES (1, 1, 12),

--(1, 2, 195),

--(1, 3, 4),

--(2, 1, 10),

--(2, 2, 420),

--(2, 3, 3),

--(3, 1, 60),

--(3, 2, 235),

--(3, 3, 4);

--select \*from fruit\_nutrients;

--INSERT INTO fruits (fruit\_id, F\_name, color, taste, season)

--VALUES (8, 'Avocado', 'Green', 'Sweet and creamy', 'Fall');

-- SELECT \* FROM fruits

-- WHERE F\_name LIKE 'A%';

--SELECT f.F\_name AS Fruit\_Name, fn.amount AS Vitamin\_C\_Amount, f.taste

--FROM fruits f

--JOIN fruit\_nutrients fn ON f.fruit\_id = fn.fruit\_id

--WHERE fn.nutrient\_id = 1

--UPDATE fruits

--SET taste = 'Tart'

--WHERE fruit\_id = 5;

--DELETE FROM fruit\_nutrients

--WHERE fruit\_id = 3;

--SELECT AVG(amount) AS Avg\_Vitamin\_C

--FROM fruit\_nutrients

--WHERE nutrient\_id = 1;

--SELECT f.F\_name, fn.amount

--FROM fruits f

--JOIN fruit\_nutrients fn ON f.fruit\_id = fn.fruit\_id

--WHERE f.color = 'Red' AND f.taste = 'Sweet'

--ORDER BY fn.amount DESC;

**Results:**

