CCAS 4.3

Lab 4

CREATE TABLE fruits (

fruit\_id INT PRIMARY KEY,

F\_name VARCHAR(50),

color VARCHAR(20),

taste VARCHAR(50),

season VARCHAR(20)

);

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');

select \* from fruits;

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;CREATE TABLE fruits (

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(3, 2, 235),

(3, 3, 4);

select \*from fruit\_nutrients;

1)

insert into fruits values

(8, 'Avocado', 'Green', 'Creamy', 'Fall');

2)

select \*from fruits

where F\_name like 'A%';

3)

select F.f\_name, fn.amount, f.taste

from fruits f

join Fruit\_nutrients fn on f.fruit\_id = fn.fruit\_d

join nutrients n on n.n\_name = 'Vitamin C' and n.nutrient\_id = fn.nutrient\_id;

4)

update fruits

set taste = 'Tart'

where fruit\_id = 5;

5)

delete from Fruit\_nutrients

where fruit\_id = 3;

6)

select AVG(amount) as avg\_vitamin\_c

from Fruit\_nutrients where nutrient\_id = 1;

7)

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;