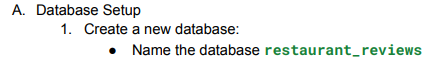
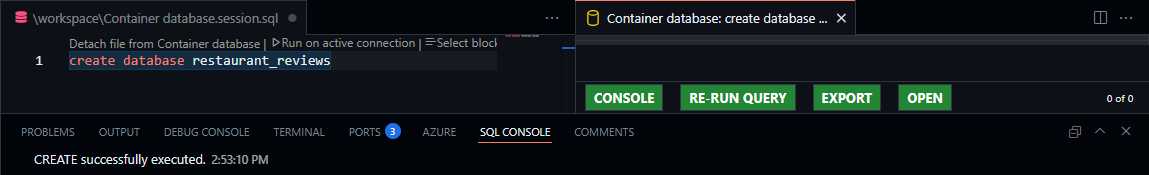
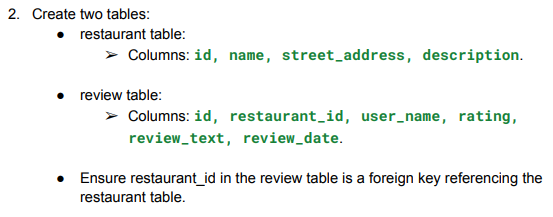
-- Database + Tables Creation



create database restaurant\_reviews;

result:





create table restaurant (

id INT NOT NULL,

name VARCHAR(255),

street\_address VARCHAR(255),

description VARCHAR(255),

primary key (id)

);

create table review (

id INT NOT NULL,

restaurant\_id INT NOT NULL,

user\_name VARCHAR(255),

rating INT,

review\_text VARCHAR(255),

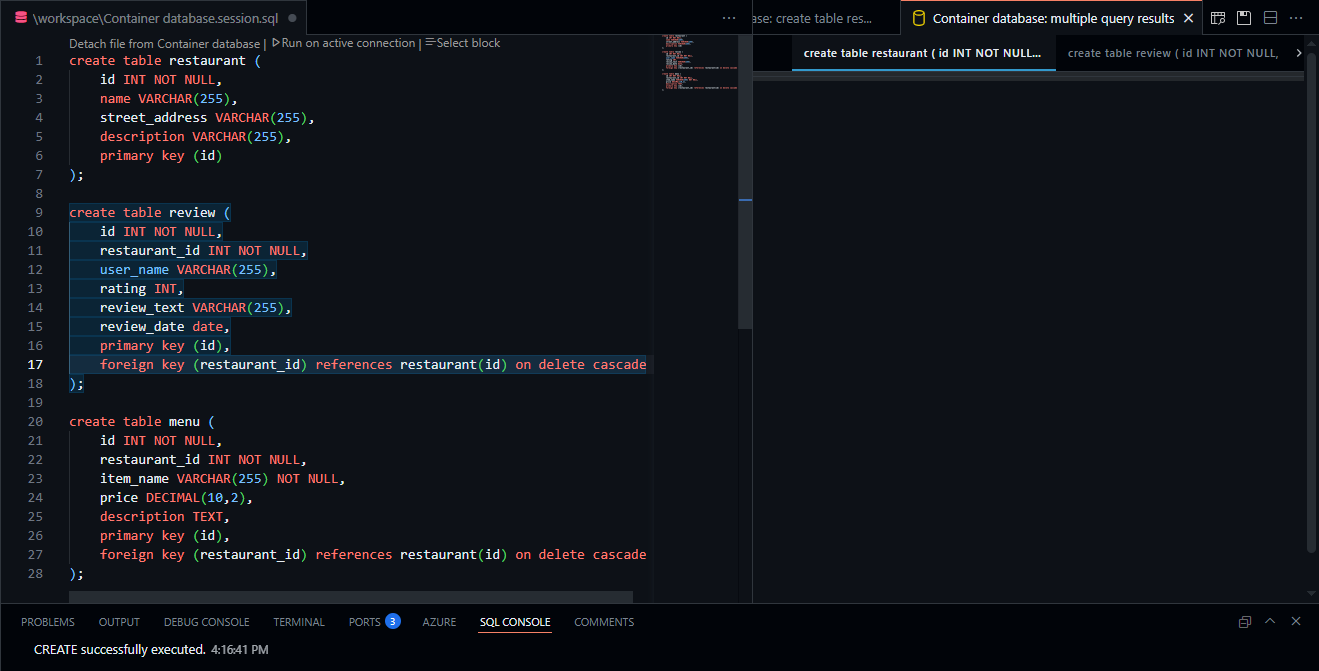
review\_date date,

primary key (id),

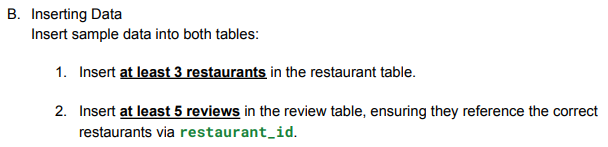
foreign key (restaurant\_id) references restaurant(id) on delete cascade

);

Result:



-- Sample Data Insertion



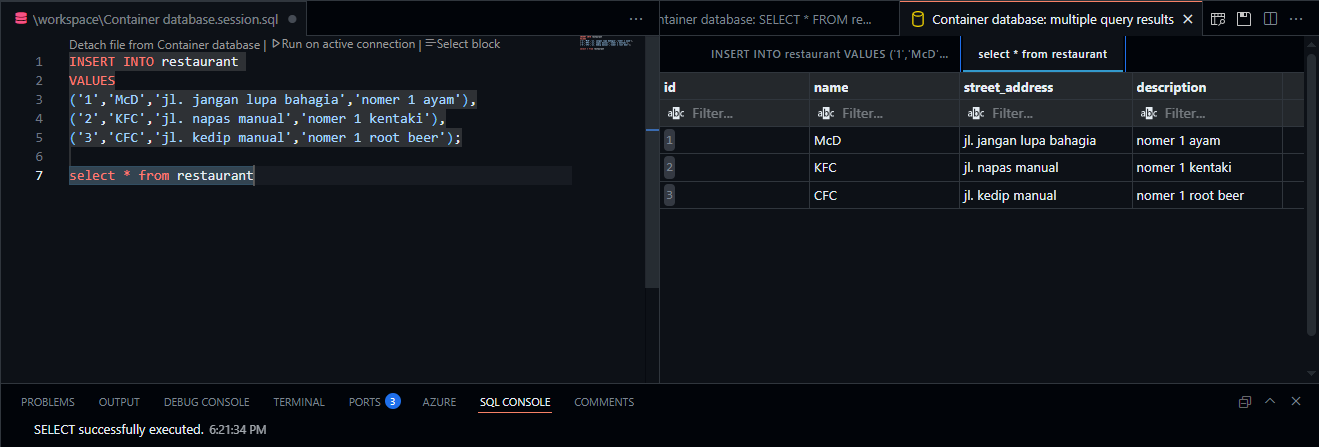
INSERT INTO restaurant

VALUES

('1','McD','jl. jangan lupa bahagia','nomer 1 ayam'),

('2','KFC','jl. napas manual','nomer 1 kentaki'),

('3','CFC','jl. kedip manual','nomer 1 root beer');

Result: 

INSERT INTO review

VALUES

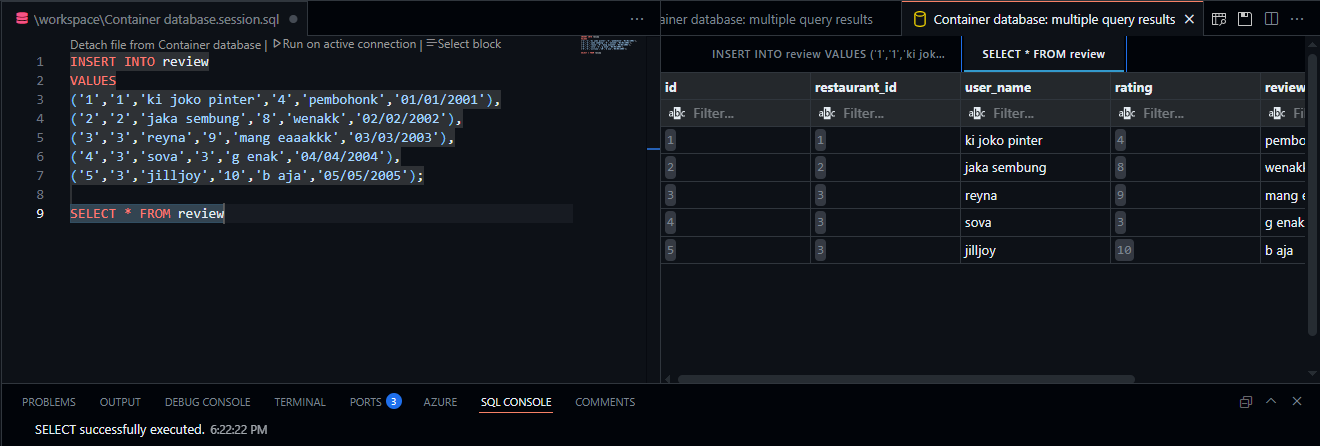
('1','1','ki joko pinter','4','pembohonk','01/01/2001'),

('2','2','jaka sembung','8','wenakk','02/02/2002'),

('3','3','reyna','9','mang eaaakkk','03/03/2003'),

('4','3','sova','3','g enak','04/04/2004'),

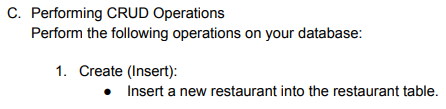
('5','3','jilljoy','10','b aja','05/05/2005');

Result: 

-- Queries for CRUD

-- Create

-- Case1



INSERT INTO restaurant

VALUES

('4','A&W','jl. jalan','nomer 1 diseluruh dunia');

Result: 

-- Case2

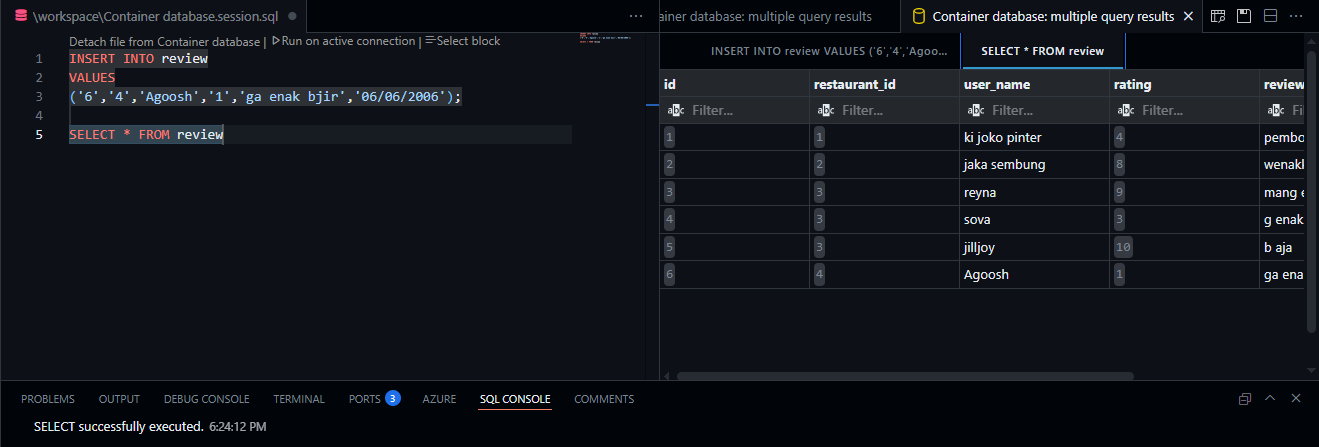


INSERT INTO review

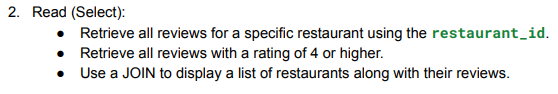
VALUES

('6','4','Agoosh','1','ga enak bjir','06/06/2006');

Result:



-- Read



-- Case1

SELECT t2.name as restaurant\_name,

t1.rating as restaurant\_rating,

t1.review\_text,

t1.review\_date

FROM review as t1

JOIN restaurant as t2 ON t2.id = t1.restaurant\_id

WHERE t1.restaurant\_id = 3

Result: 

-- Case2

SELECT t2.name as restaurant\_name,

t1.rating as restaurant\_rating,

t1.review\_text,

t1.review\_date

FROM review as t1

JOIN restaurant as t2 ON t2.id = t1.restaurant\_id

WHERE t1.rating >= 4

Result:



-- Case3

SELECT \*

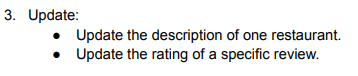
FROM review as t1

JOIN restaurant as t2 ON t2.id = t1.restaurant\_id

Result:



-- Update

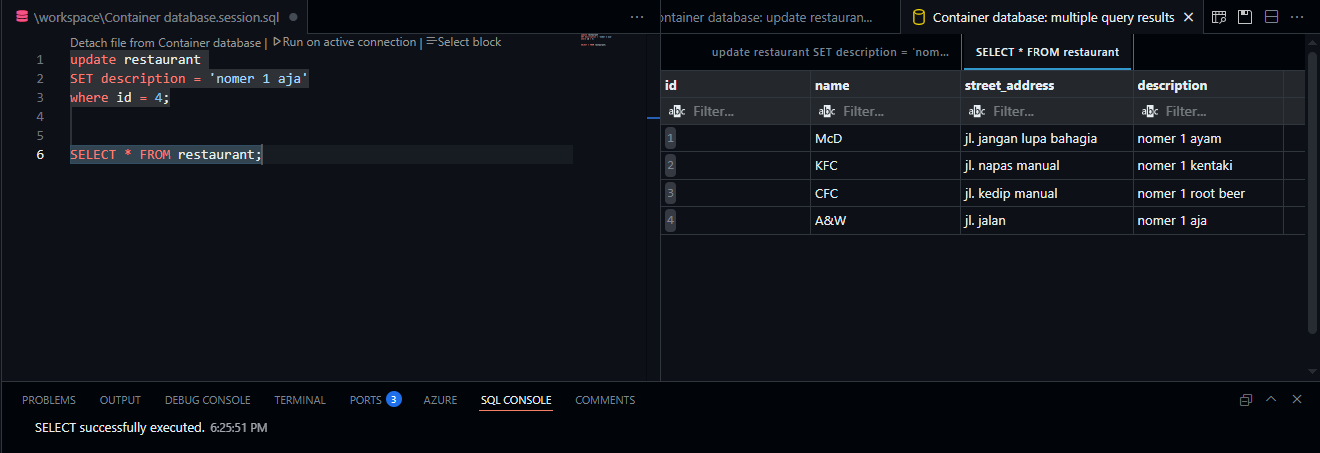


-- Case1

update restaurant

SET description = 'nomer 1 aja'

where id = 4

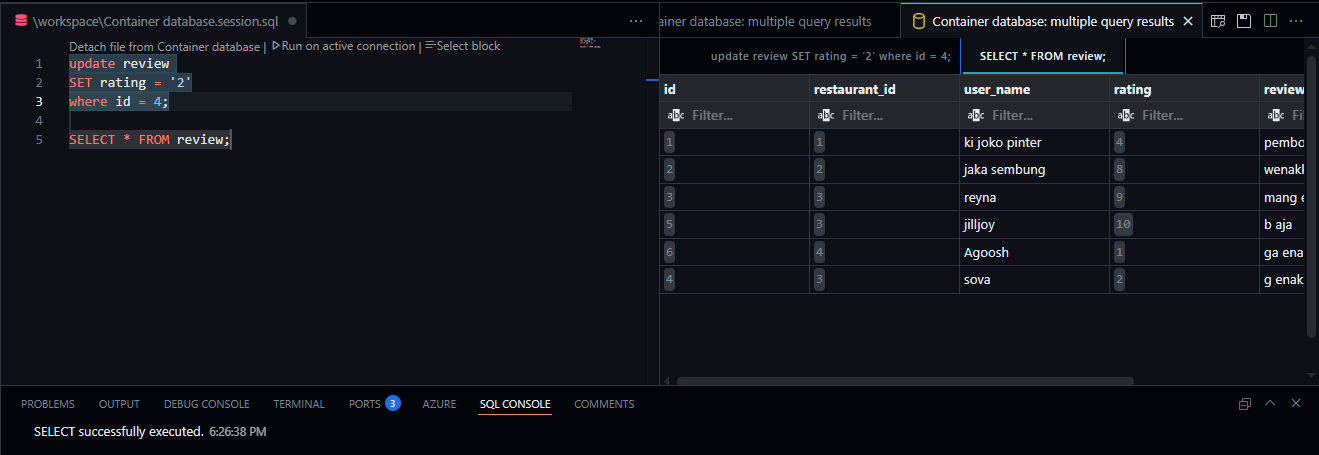
result: 

-- Case2

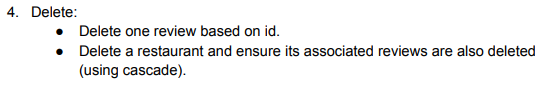
update review

SET rating = '2'

where id = 4

result: 

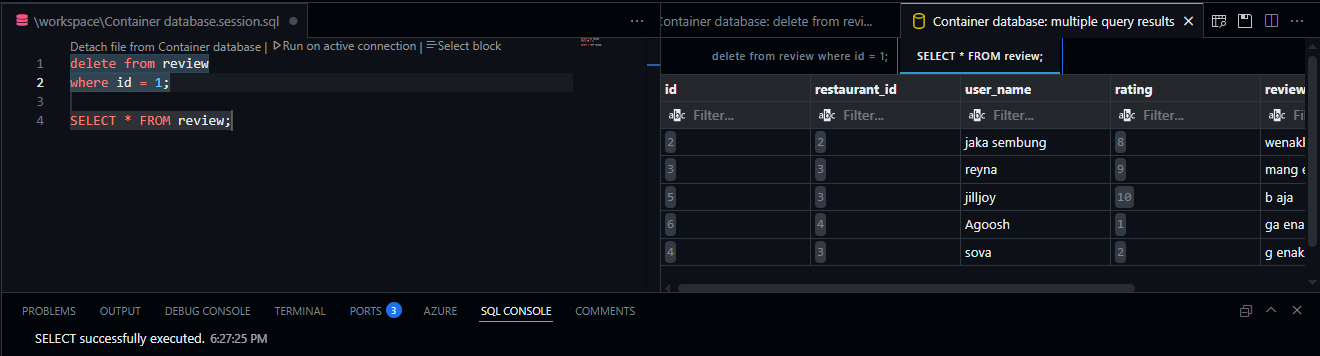
-- Delete



-- Case1

delete from review

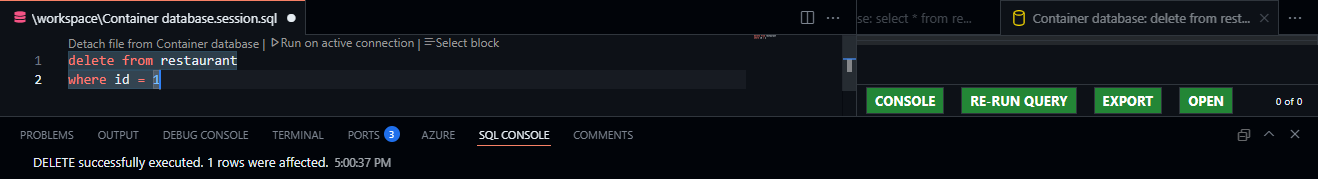
where id = 1

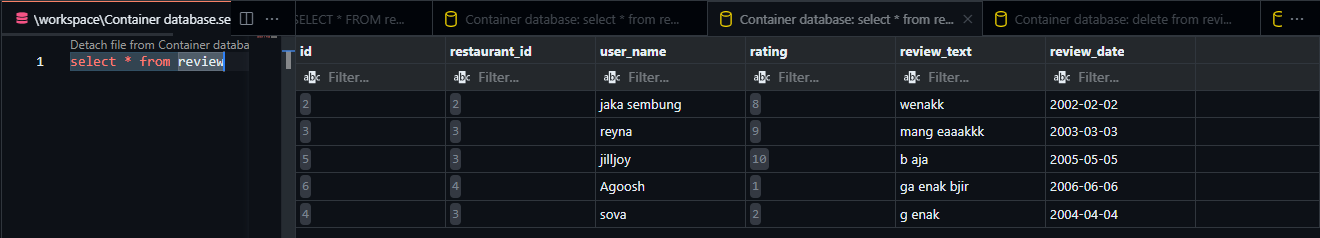
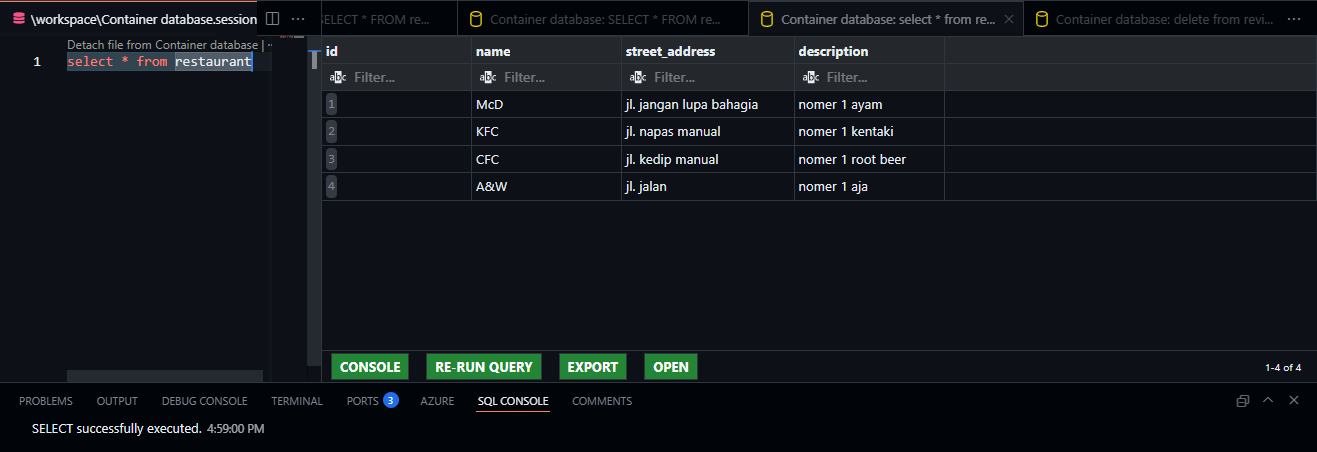
Result: 

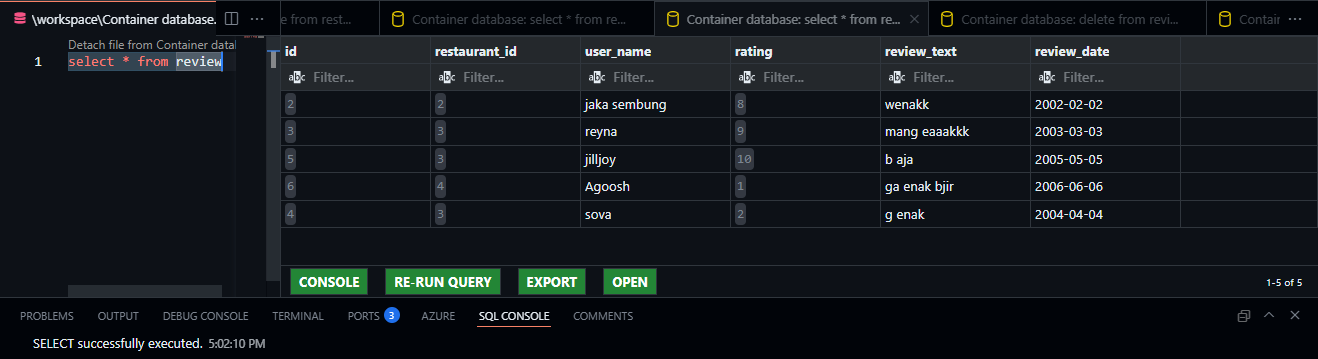
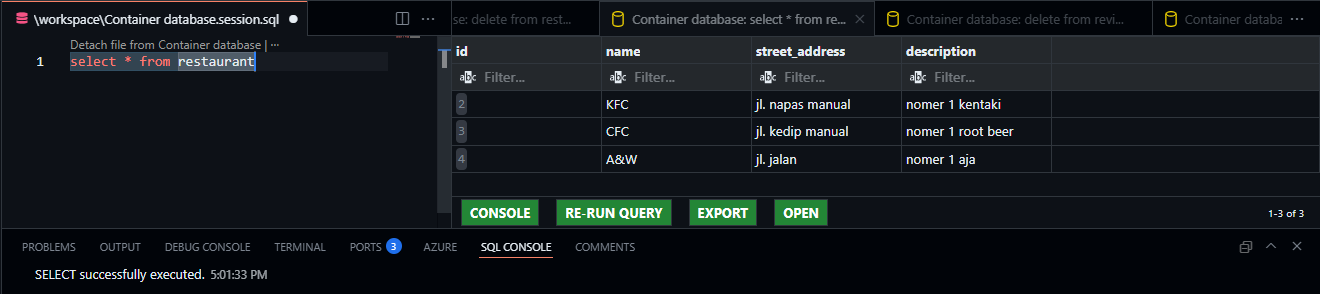
-- Case2

delete from restaurant

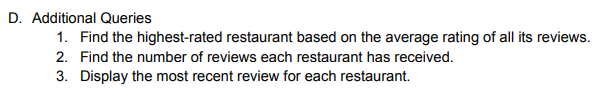
where id = 1

Result: 

Before

After

-- Additional Queries



-- Case1

select t1.name as restaurant\_name, avg(t2.rating) as restaurant\_rating

from restaurant as t1

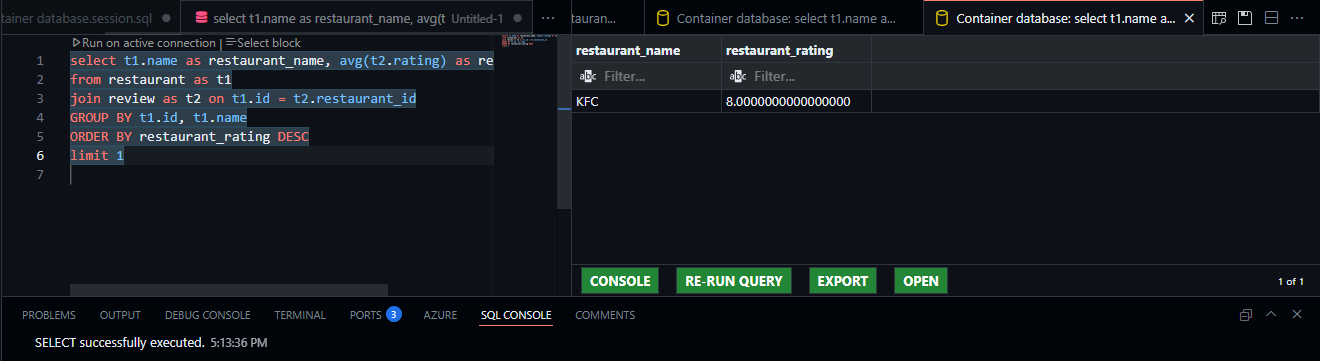
join review as t2 on t1.id = t2.restaurant\_id

GROUP BY t1.id, t1.name

ORDER BY restaurant\_rating DESC

limit 1

Result:



-- Case2

select t1.name as restaurant\_name,

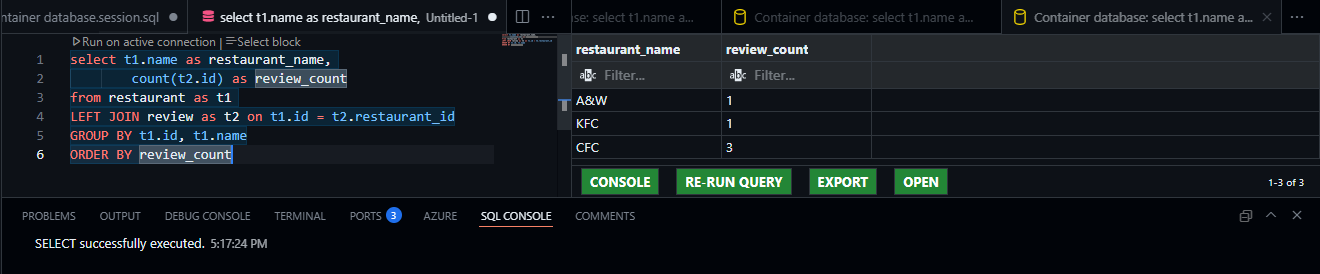
count(t2.id) as review\_count

from restaurant as t1

LEFT JOIN review as t2 on t1.id = t2.restaurant\_id

GROUP BY t1.id, t1.name

ORDER BY review\_count

Result: 

-- Case3

SELECT t1.name as restaurant\_name,

t2.rating as restaurant\_rating,

t2.review\_text,

t2.review\_date

FROM restaurant as t1

JOIN review as t2 ON t1.id = t2.restaurant\_id

WHERE t2.review\_date IN (

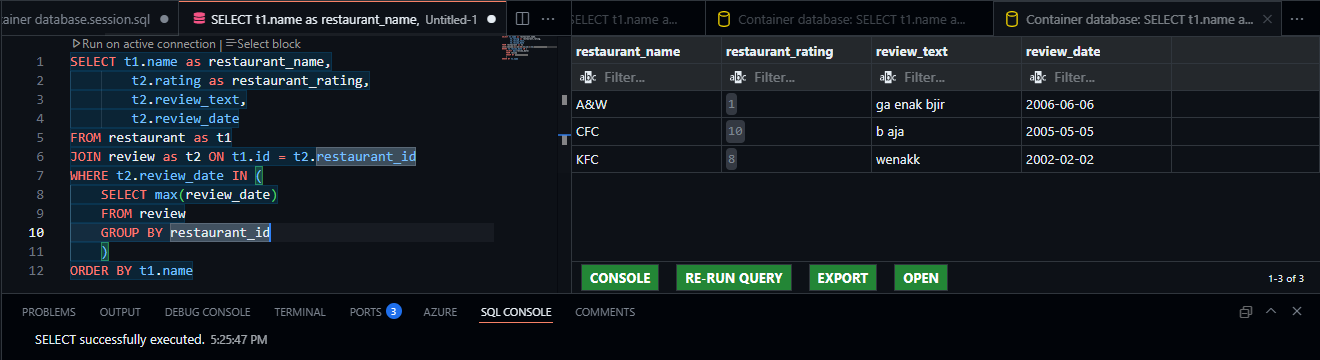
SELECT max(review\_date)

FROM review

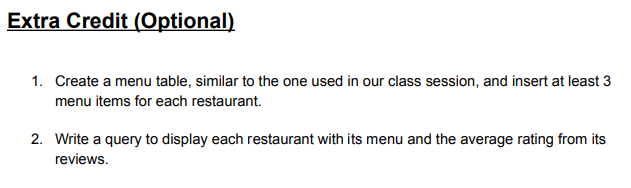
GROUP BY restaurant\_id

)

ORDER BY t1.name

Result:

-- Extra Credits



-- Case1

create table menu (

id INT NOT NULL,

restaurant\_id INT NOT NULL,

item\_name VARCHAR(255) NOT NULL,

price DECIMAL(10,2),

description TEXT,

primary key (id),

foreign key (restaurant\_id) references restaurant(id) on delete cascade

);

INSERT INTO menu

VALUES

('1','2','babi kecap','50000','babi dikecapin'),

('2','2','babi panggang','45000','babi dipanggang'),

('3','2','babi goreng','30000','babi digoreng garing'),

('4','3','babi sambal matah','55000','babi dikasi sambel matah'),

('5','3','babi guling','75000','babi diguling'),

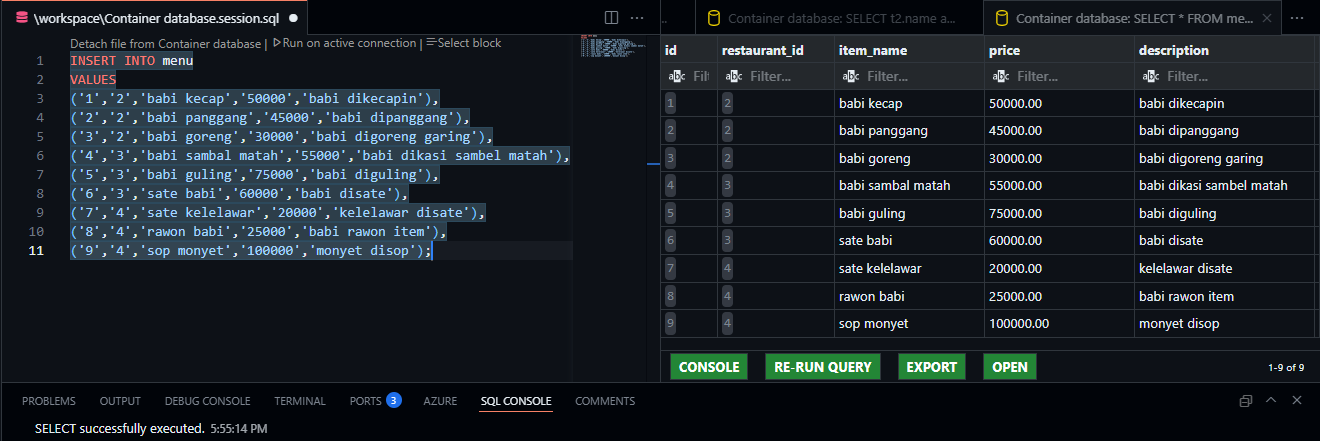
('6','3','sate babi','60000','babi disate'),

('7','4','sate kelelawar','20000','kelelawar disate'),

('8','4','rawon babi','25000','babi rawon item'),

('9','4','sop monyet','100000','monyet disop');

SELECT \* FROM menu

Result: 

-- Case2

SELECT t2.name as restaurant\_name,

t3.item\_name as restaurant\_menu,

AVG(t1.rating) as restaurant\_rating

FROM review as t1

JOIN restaurant as t2 ON t1.restaurant\_id = t2.id

JOIN menu as t3 ON t2.id = t3.restaurant\_id

GROUP BY t2.id, t2.name, t3.item\_name

ORDER BY restaurant\_rating DESC

Result: 