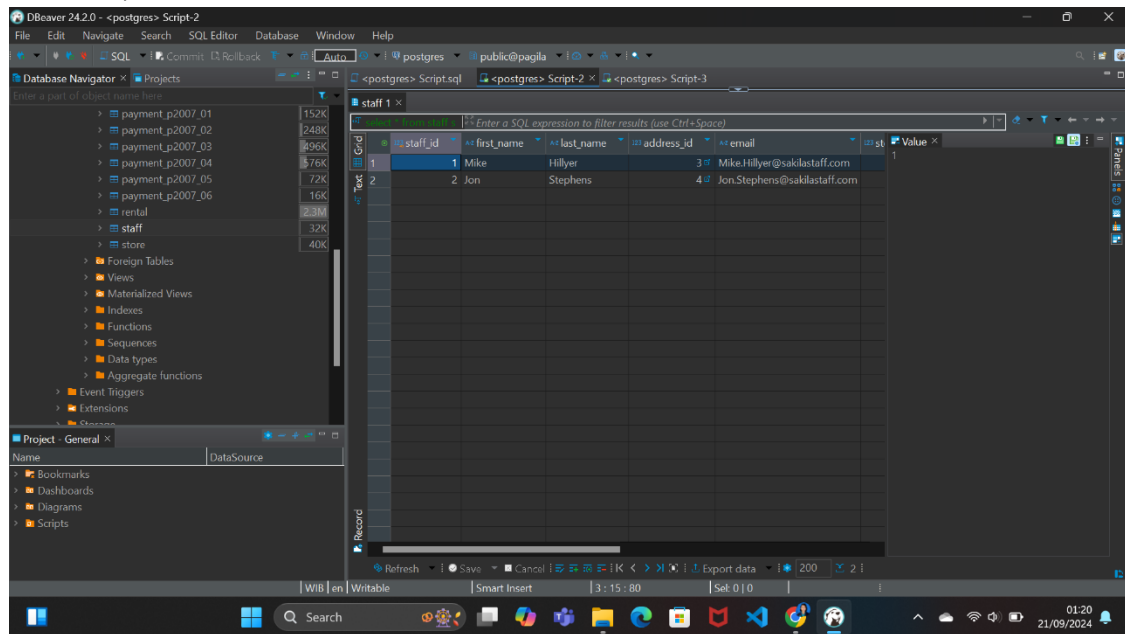


QUERY PRACTICE TASK

-- 1. Show all fields and records from the staff table

select *

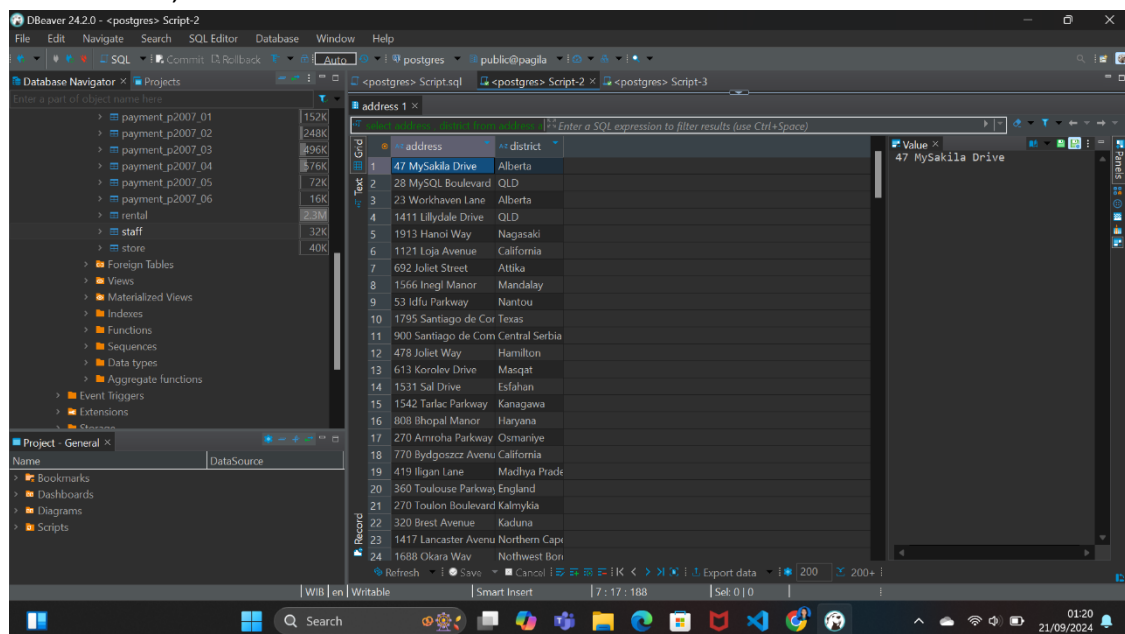
from staff s ;



-- 2. Show address and district columns from address table

select address , district

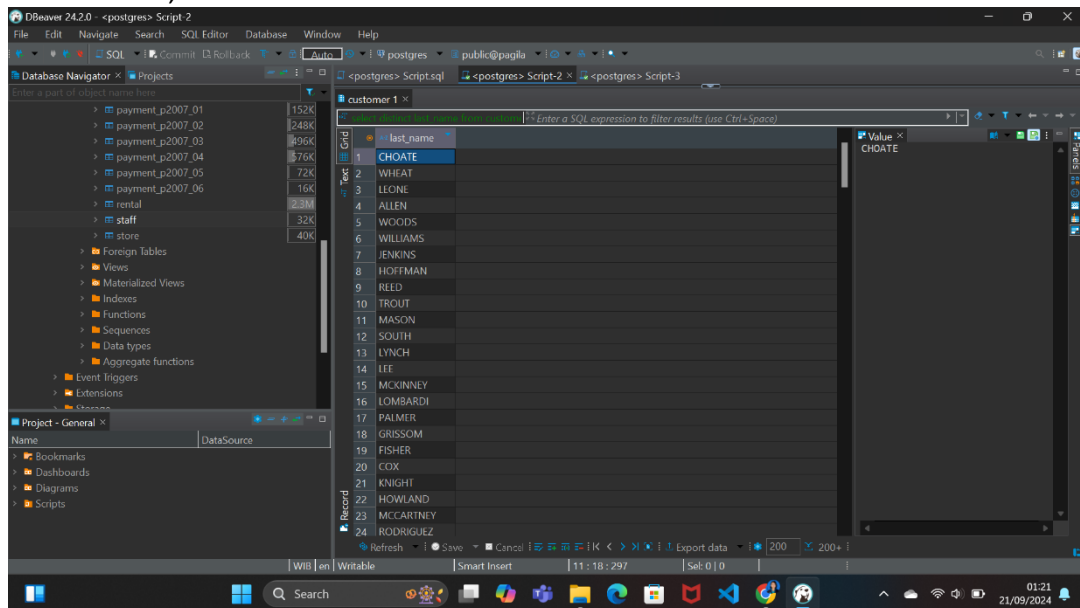
from address a ;



-- 3. Show all the distinct last names from customer table

select distinct last_name

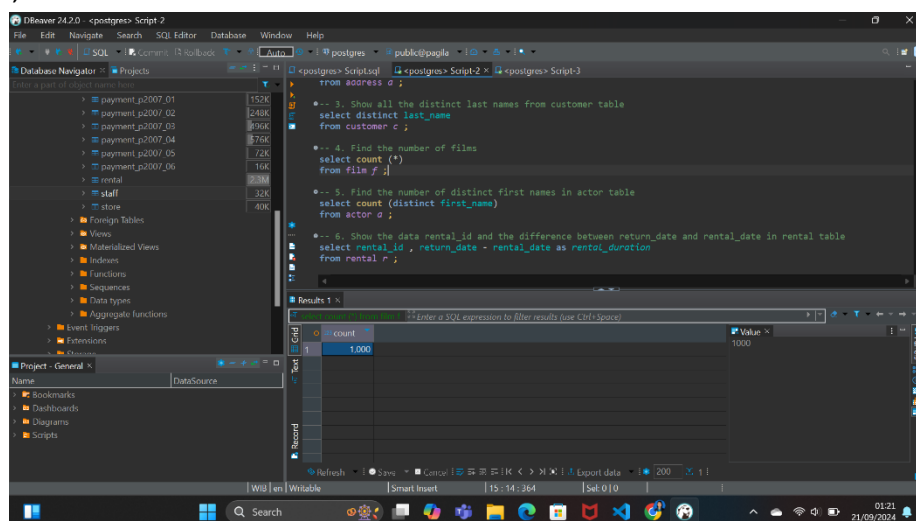
from customer c ;



-- 4. Find the number of films

select count (*)

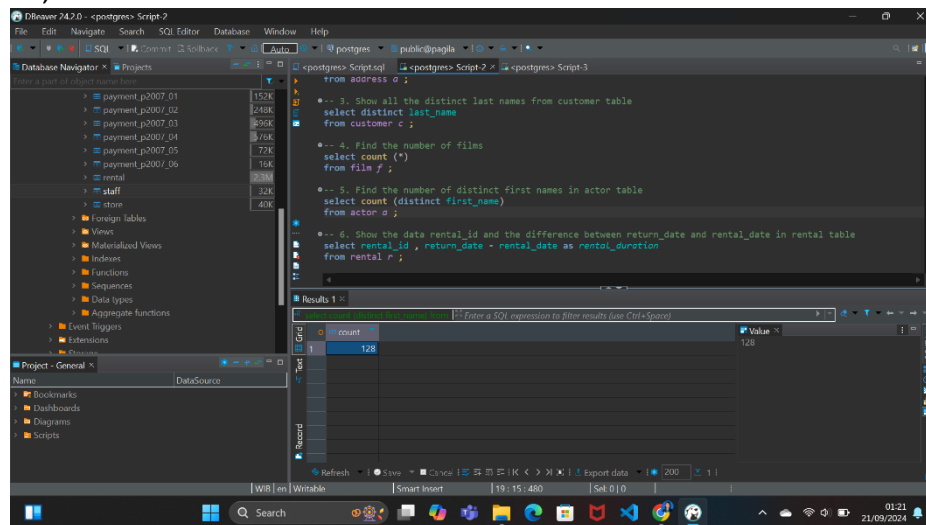
from film f ;



-- 5. Find the number of distinct first names in actor table

select count (distinct first_name)

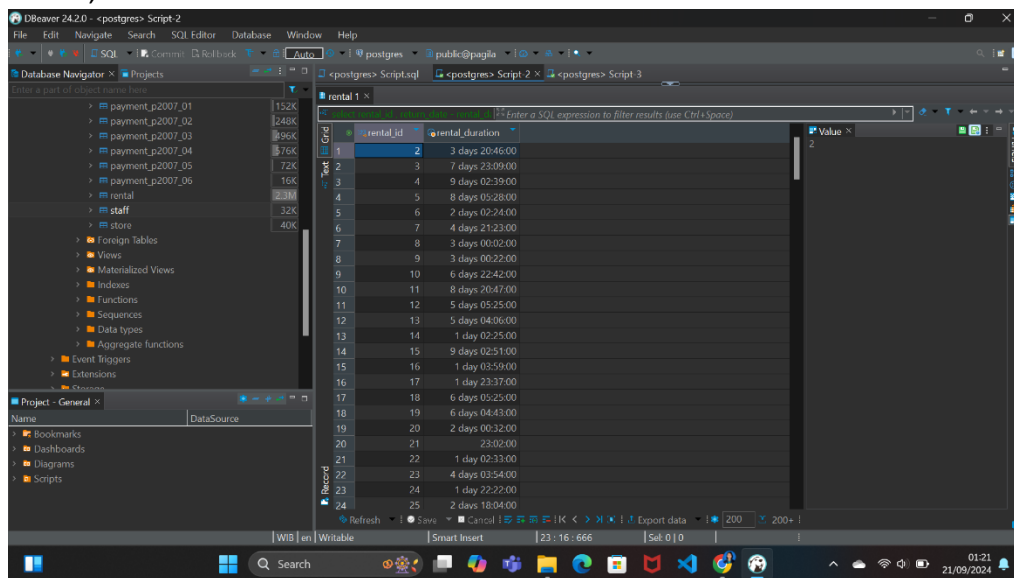
from actor a ;



-- 6. Show the data rental_id and the difference between return_date and rental_date in rental table

select rental_id , return_date - rental_date as rental_duration

from rental r ;

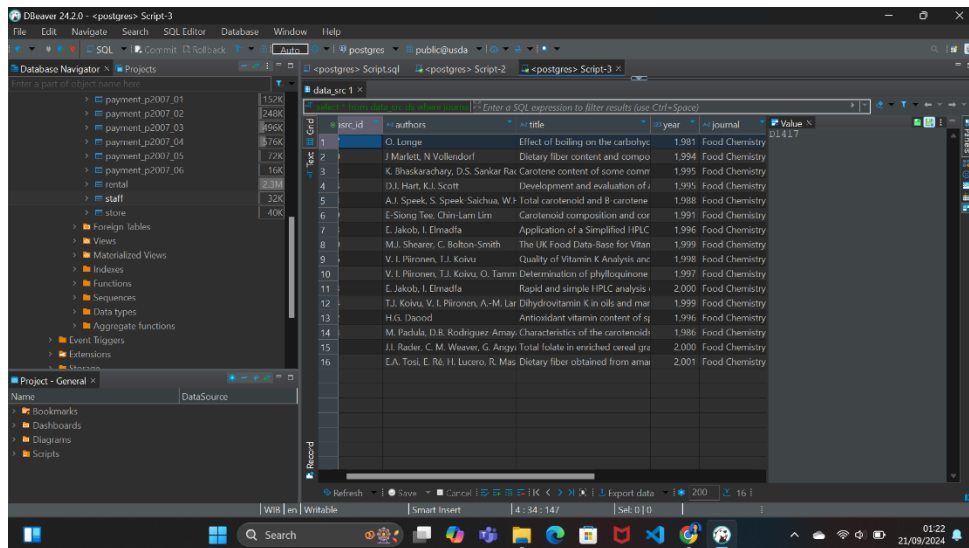


-- 1. Select all records data_src which came from the journal name 'Food Chemistry'

select *

from data_src ds

where journal = 'Food Chemistry';



The screenshot shows the DBeaver 24.2.0 interface. The SQL editor contains the query: `select * from data_src ds where journal = 'Food Chemistry';`. The results pane displays a table with 16 rows and 5 columns: `src_id`, `authors`, `title`, `year`, and `journal`. The data is as follows:

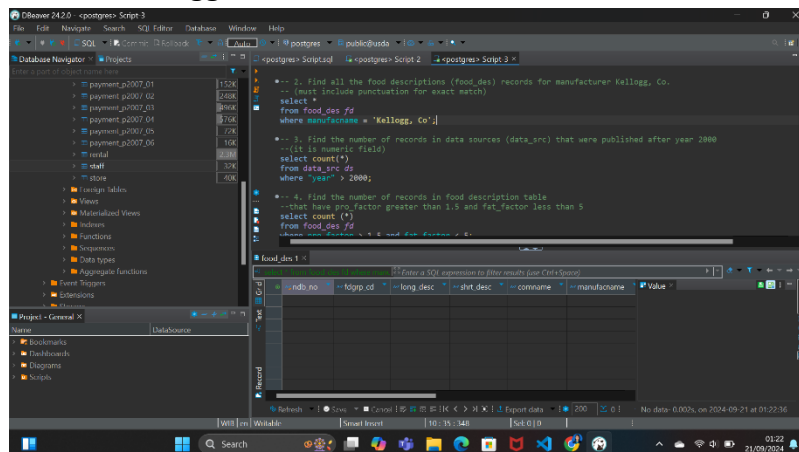
src_id	authors	title	year	journal
1	O. Longe	Effect of boiling on the carbohy	1981	Food Chemistry
2	J. Market, N. Vollandorff	Dietary fiber content and compo	1994	Food Chemistry
3	K. Bhaskarachary, D.S. Sankar	Carotene content of some corn	1995	Food Chemistry
4	D.I. Hart, K.J. Scott	Development and evaluation of:	1995	Food Chemistry
5	A.J. Speek, S. Speek-Saichua, W.	Total carotenoid and B carotene	1988	Food Chemistry
6	E-Siong Tee, Chin-Lam Lim	Carotenoid composition and cor	1991	Food Chemistry
7	E. Jakob, I. Elmadfa	Application of a Simplified HPLC	1996	Food Chemistry
8	M.J. Shearer, C. Bolton-Smith	The UK Food Data-Base for Vitan	1999	Food Chemistry
9	V. I. Pironen, T.J. Koivu	Quality of Vitamin K Analysis anc	1998	Food Chemistry
10	V. I. Pironen, T.J. Koivu, O. Tamm	Determination of phyloquinone	1997	Food Chemistry
11	E. Jakob, I. Elmadfa	Rapid and simple HPLC analysis	2000	Food Chemistry
12	T.J. Koivu, V. I. Pironen, A.-M. La	Dihydrovitamin K in oils and mar	1999	Food Chemistry
13	H.G. Deo	Antioxidant vitamin content of s	1996	Food Chemistry
14	M. Pedale, D.B. Rodriguez	Amey. Characteristics of the carotenoids	1988	Food Chemistry
15	J.L. Rader, C.M. Weaver, G. Anny	Total folate in enriched cereal gra	2000	Food Chemistry
16	C.A. Tosi, E. R6, H. Lucero, R. Mas	Dietary fiber obtained from ama	2001	Food Chemistry

-- 2. Find all the food descriptions (food_des) records for manufacturer Kellogg, Co. (must include punctuation for exact match)

select *

from food_des fd

where manufacname = 'Kellogg, Co';

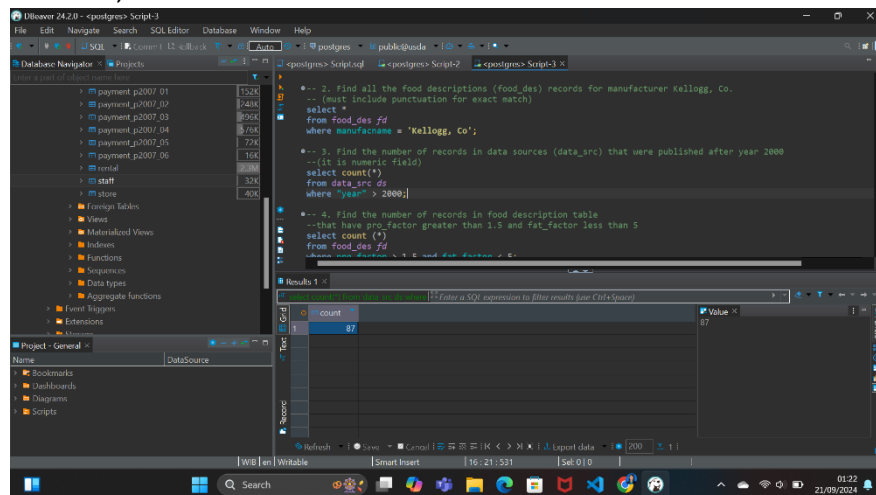


The screenshot shows the DBeaver 24.2.0 interface. The SQL editor contains the query: `select * from food_des fd where manufacname = 'Kellogg, Co';`. The results pane displays a table with 1 row and 5 columns: `ndc_no`, `tdgrp_cd`, `long_desc`, `shrt_desc`, and `manufacname`. The data is as follows:

ndc_no	tdgrp_cd	long_desc	shrt_desc	manufacname
				Kellogg, Co

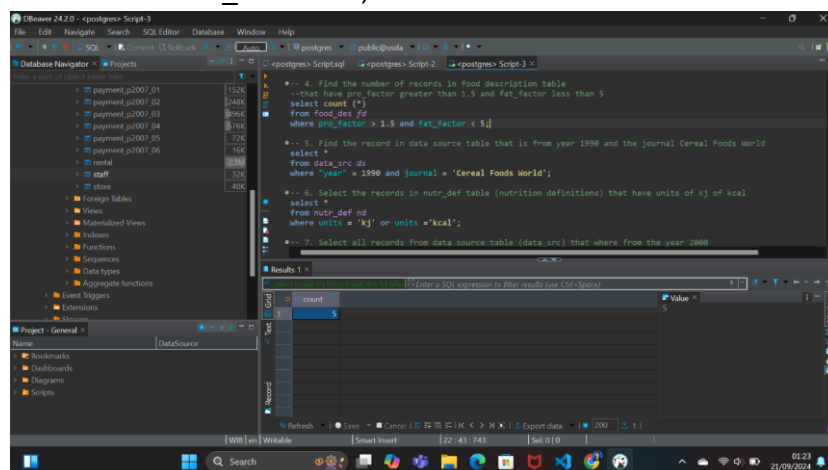
-- 3. Find the number of records in data sources (data_src) that were published after year 2000 (it is numeric field)

```
select count(*)  
from data_src ds  
where "year" > 2000;
```



-- 4. Find the number of records in food description table that have pro_factor greater than 1.5 and fat_factor less than 5

```
select count (*)  
from food_des fd  
where pro_factor > 1.5 and fat_factor < 5;
```

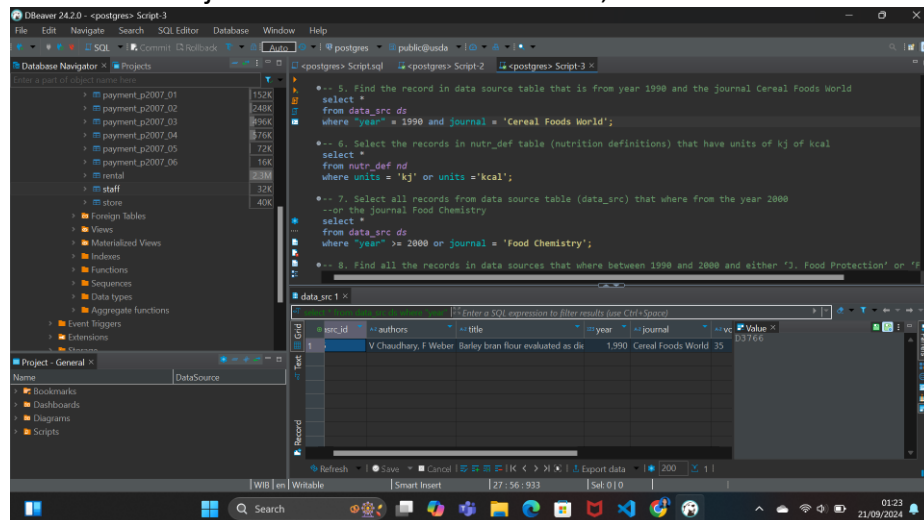


-- 5. Find the record in data source table that is from year 1990 and the journal Cereal Foods World

select *

from data_src ds

where "year" = 1990 and journal = 'Cereal Foods World';

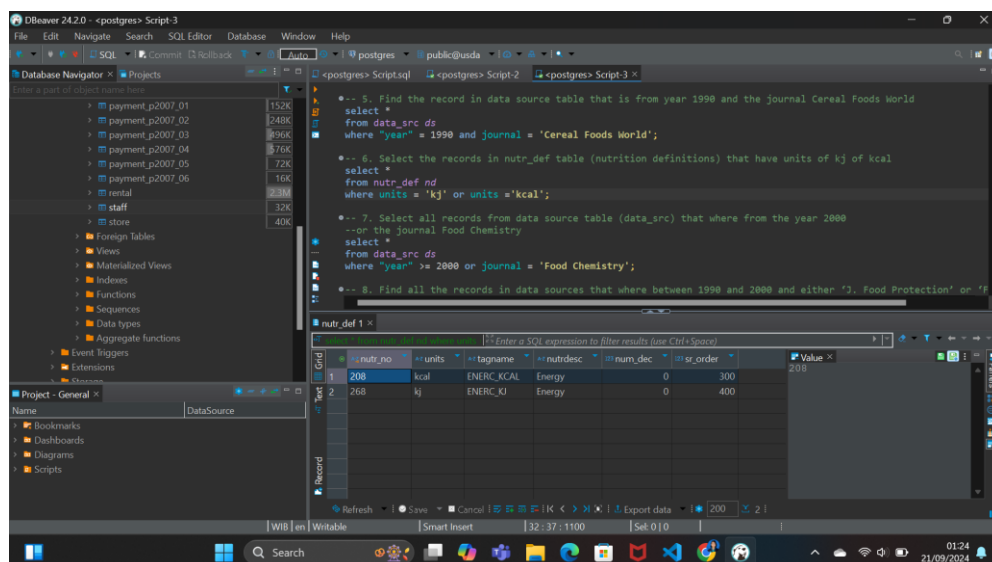


-- 6. Select the records in nutr_def table (nutrition definitions) that have units of kj or kcal

select *

from nutr_def nd

where units = 'kj' or units ='kcal';

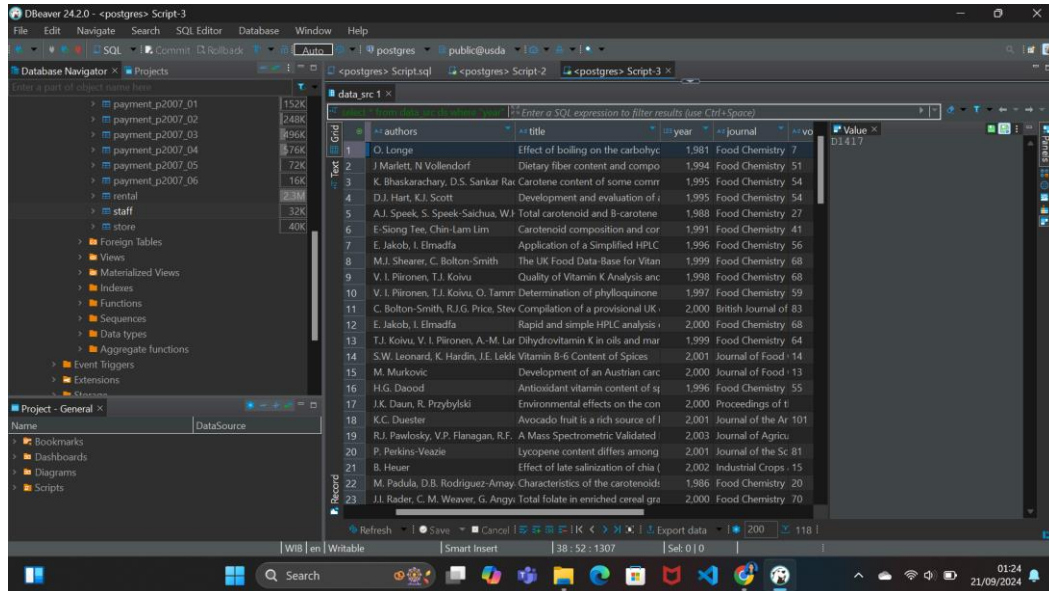


-- 7. Select all records from data source table (data_src) that where from the year 2000 or the journal Food Chemistry

select *

from data_src ds

where "year" >= 2000 or journal = 'Food Chemistry';



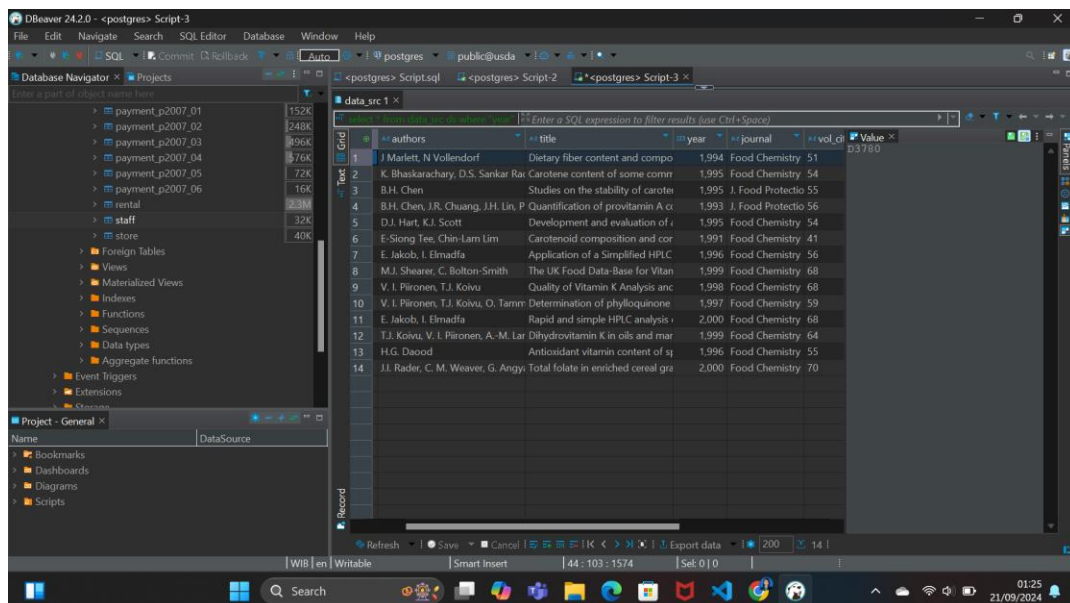
id	authors	title	year	journal	value
1	O. Longe	Effect of boiling on the carbohy	1981	Food Chemistry	7
2	J. Marlett, N. Vollendorf	Dietary fiber content and compo	1994	Food Chemistry	51
3	K. Bhaskarachary, D.S. Sankar Rai	Carotene content of some comm	1995	Food Chemistry	54
4	D.J. Hart, K.J. Scott	Development and evaluation of	1995	Food Chemistry	54
5	A.J. Speek, S. Speek-Saichua, W.J	Total carotenoid and 8-carotene	1988	Food Chemistry	27
6	E-Siong Tee, Chin-Lam Lim	Carotenoid composition and cor	1991	Food Chemistry	41
7	E. Jakob, I. Elmadafa	Application of a Simplified HPLC	1996	Food Chemistry	56
8	M.J. Shearer, C. Bolton-Smith	The UK Food Data-Base for Vitan	1999	Food Chemistry	68
9	V. I. Pironen, T.J. Koivu	Quality of Vitamin K Analysis anc	1998	Food Chemistry	68
10	V. I. Pironen, T.J. Koivu, O. Tamr	Determination of phyloquinone	1997	Food Chemistry	59
11	C. Bolton-Smith, R.J.G. Price, Stev	Compilation of a provisional UK	2000	British Journal of	83
12	E. Jakob, I. Elmadafa	Rapid and simple HPLC analysis	2000	Food Chemistry	68
13	T.J. Koivu, V. I. Pironen, A.-M. Lar	Dihydrovitamin K in oils and mar	1999	Food Chemistry	64
14	S.W. Leonard, K. Hardin, J.E. Lekle	Vitamin B-6 Content of Spices	2001	Journal of Food	14
15	M. Markovic	Development of an Austrian carc	2000	Journal of Food	13
16	H.G. Daoud	Antioxidant vitamin content of sq	1996	Food Chemistry	55
17	J.K. Daun, R. Przybylski	Environmental effects on the con	2000	Proceedings of t	
18	K.C. Duester	Avocado fruit is a rich source of l	2001	Journal of the Ar	101
19	R.J. Pawlosky, V.P. Flanagan, R.F.	A Mass Spectrometric Validated	2003	Journal of Agricu	
20	P. Perkins-Veazie	Lycopene content differs among	2001	Journal of the Sc	81
21	B. Heuer	Effect of late salinization of chia	2002	Industrial Crops	15
22	M. Padula, D.B. Rodriguez-Amay	Characteristics of the carotenoid	1986	Food Chemistry	20
23	J.I. Rader, C. M. Weaver, G. Angy	Total folate in enriched cereal gra	2000	Food Chemistry	70

-- 8. Find all the records in data sources that where between 1990 and 2000 and either 'J. Food Protection' or 'Food Chemistry'

select *

from data_src ds

where "year" between 1990 and 2000 and (journal = 'J. Food Protection' or journal = 'Food Chemistry');



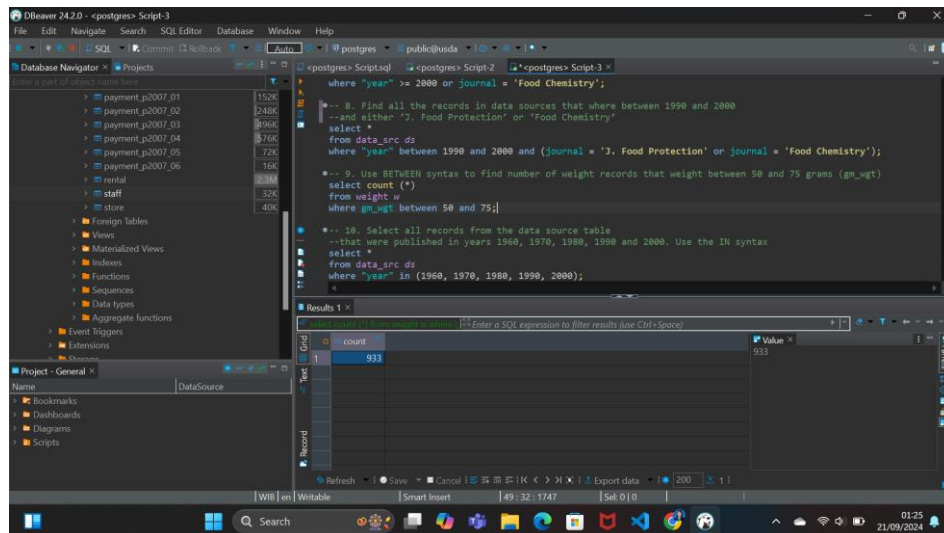
id	authors	title	year	journal	value
1	J. Marlett, N. Vollendorf	Dietary fiber content and compo	1994	Food Chemistry	51
2	K. Bhaskarachary, D.S. Sankar Rai	Carotene content of some comm	1995	Food Chemistry	54
3	B.H. Chen	Studies on the stability of carote	1995	J. Food Protectio	55
4	B.H. Chen, J.R. Chuang, J.H. Lin, P	Quantification of provitamin A α	1993	J. Food Protectio	56
5	D.J. Hart, K.J. Scott	Development and evaluation of	1995	Food Chemistry	54
6	E-Siong Tee, Chin-Lam Lim	Carotenoid composition and cor	1991	Food Chemistry	41
7	E. Jakob, I. Elmadafa	Application of a Simplified HPLC	1996	Food Chemistry	56
8	M.J. Shearer, C. Bolton-Smith	The UK Food Data-Base for Vitan	1999	Food Chemistry	68
9	V. I. Pironen, T.J. Koivu	Quality of Vitamin K Analysis anc	1998	Food Chemistry	68
10	V. I. Pironen, T.J. Koivu, O. Tamr	Determination of phyloquinone	1997	Food Chemistry	59
11	E. Jakob, I. Elmadafa	Rapid and simple HPLC analysis	2000	Food Chemistry	68
12	T.J. Koivu, V. I. Pironen, A.-M. Lar	Dihydrovitamin K in oils and mar	1999	Food Chemistry	64
13	H.G. Daoud	Antioxidant vitamin content of sq	1996	Food Chemistry	55
14	J.I. Rader, C. M. Weaver, G. Angy	Total folate in enriched cereal gra	2000	Food Chemistry	70

-- 9. Use BETWEEN syntax to find number of weight records that weight between 50 and 75 grams (gm_wgt)

select count (*)

from weight w

where gm_wgt between 50 and 75;



-- 10. Select all records from the data source table

--that were published in years 1960, 1970, 1980, 1990 and 2000. Use the IN syntax

select *

from data_src ds

where "year" in (1960, 1970, 1980, 1990, 2000);

