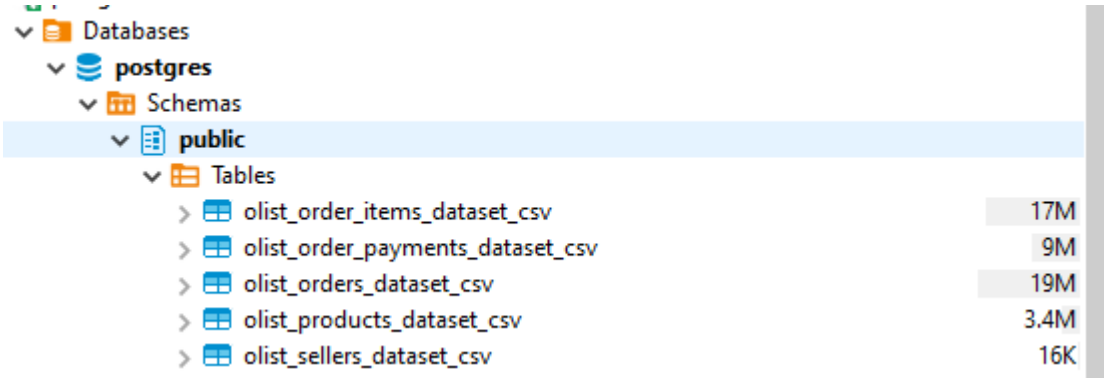
HW Session 16 – Advanced SQL

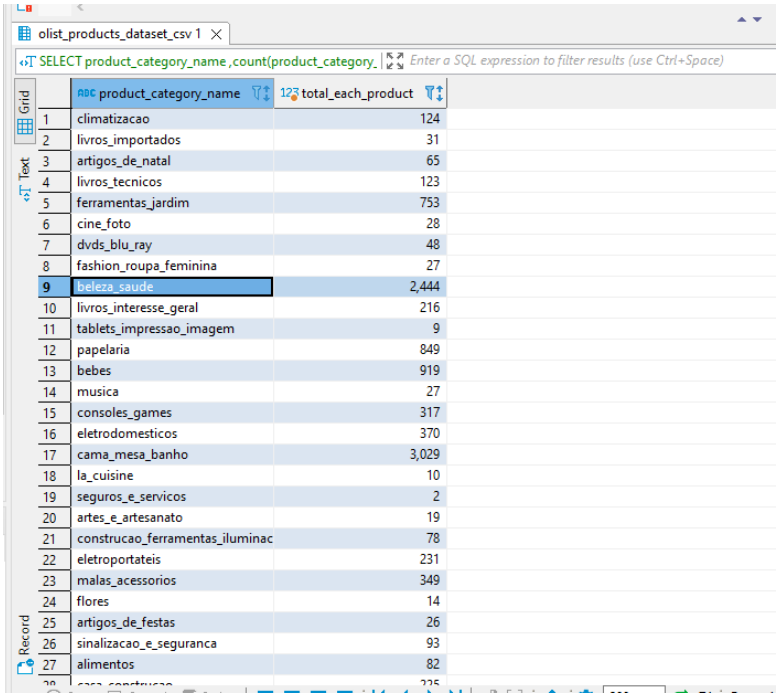
a. Download from kaggle data => import to local db



b. Please write query that show total of each product

```
SELECT
      product_category_name
      ,count(product_category_name)Total_each_product
FROM public.olist_products_dataset_csv opdc
group by product_category_name
```

output:



	product_category_name	total_each_product
1	climatizacao	124
2	livros_importados	31
3	artigos_de_natal	65
4	livros_tecnicos	123
5	ferramentas_jardim	753
6	cine_foto	28
7	dvds_blu_ray	48
8	fashion_roupa_feminina	27
9	beleza_saude	2,444
10	livros_interesse_geral	216
11	tablets_impressao_imagem	9
12	papelaria	849
13	bebes	919
14	musica	27
15	consoles_games	317
16	eletrodomesticos	370
17	cama_mesa_banho	3,029
18	la_cuisine	10
19	seguros_e_servicos	2
20	artes_e_artesanato	19
21	construcao_ferramentas_iluminac	78
22	eletroportateis	231
23	malas_acessorios	349
24	flores	14
25	artigos_de_festas	26
26	sinalizacao_e_seguranca	93
27	alimentos	82

c. Please write a query that show the total of credit card payment type

```
SELECT
	payment_type
	,count(payment_type)total_payment_type
	,sum(payment_value)total_value_payment_type
FROM public.olist_order_payments_dataset_csv
group by payment_type
```

	payment_type	total_payment_type	total_value_payment_type
1	not_defined	3	0
2	boleto	19,784	2,869,355
3	debit_card	1,529	217,989.6875
4	voucher	5,775	379,436.5625
5	credit_card	76,795	12,542,106

d. Please write a query that show top 3 payment type with ther most order item dataset

```
select
	payment_type, count(a.order_id )total_order
from public.olist_order_items_dataset_csv a inner join

(
	SELECT
		distinct order_id ,payment_type
	FROM public.olist_order_payments_dataset_csv
	--group by payment_type
)b on a.order_id =b.order_id
group by payment_type
order by 1
limit 3
```

output

```sql
-- d. Please write a query that show top 3 payment type with ther most order item dataset
select
    payment_type, count(a.order_id )total_order
from public.olist_order_items_dataset_csv a inner join

(
    SELECT
        distinct order_id ,payment_type
    FROM public.olist_order_payments_dataset_csv
    --group by payment_type
)b on a.order_id =b.order_id
group by payment_type
order by 1
limit 3
```

olist_order_payments_dataset_csv 1

select payment_type, count(a.order_id)total_order from p | Enter a SQL expression to filter results (use Ctrl+Space)

	payment_type	total_order
1	boleto	22,867
2	credit_card	86,435
3	debit_card	1,690

e. Please write a query that show the sum of payment value from each payment type which installments is greater than 1

```sql
SELECT
      payment_type ,sum(payment_value)total_value_payment_type
FROM public.olist_order_payments_dataset_csv
where payment_installments > 1
group by payment_type
;
```

Output

```sql
SELECT
    payment_type ,sum(payment_value)total_value_payment_type
FROM public.olist_order_payments_dataset_csv
where payment_installments > 1
group by payment_type
;
```

olist_order_payments_dataset_csv 1

SELECT payment_type ,sum(payment_value)total_value_pa | Enter a SQL expression to filter re

	payment_type	total_value_payment_type
1	credit_card	10,101,395