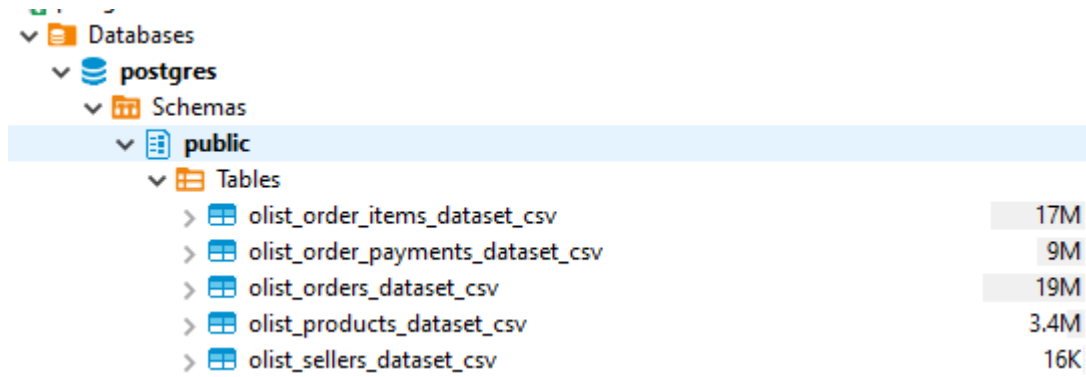


## HW Session 16 – Advanced SQL

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



A screenshot of a database explorer interface. The 'Databases' tree is expanded to show 'postgres', which is further expanded to show 'Schemas'. The 'public' schema is selected and expanded to show a list of tables. To the right of the table names, their sizes are displayed.

Table Name	Size
olist_order_items_dataset_csv	17M
olist_order_payments_dataset_csv	9M
olist_orders_dataset_csv	19M
olist_products_dataset_csv	3.4M
olist_sellers_dataset_csv	16K

- b. Please write query that show total of each product

**SELECT**

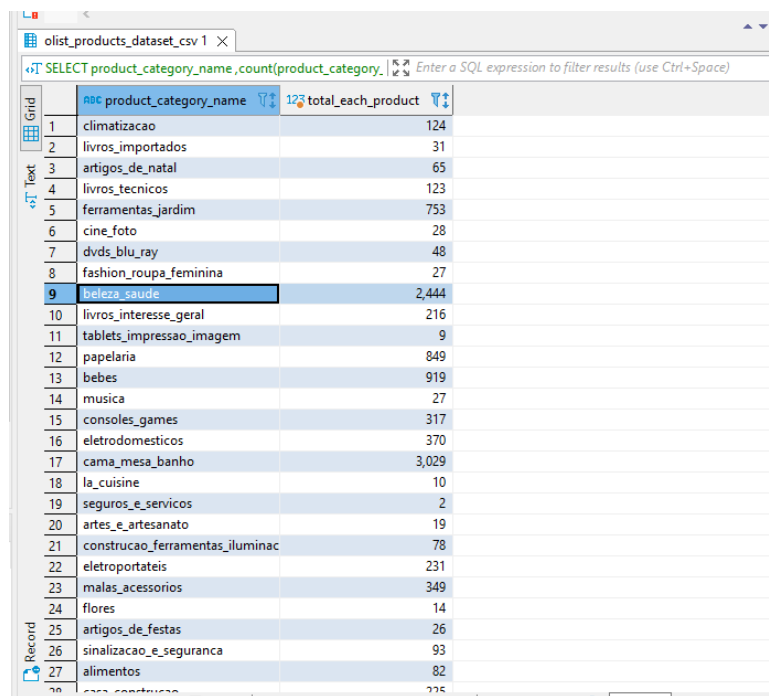
product\_category\_name

, **count**(product\_category\_name) Total\_each\_product

**FROM** public.olist\_products\_dataset\_csv opdc

**group by** product\_category\_name

output:



A screenshot of a SQL query result displayed in a table. The query is: `SELECT product_category_name, count(product_category_name) Total_each_product FROM public.olist_products_dataset_csv opdc group by product_category_name`. The result shows 27 rows of data, with the first row highlighted in blue.

product_category_name	Total_each_product
climatizacao	124
livros_importados	31
artigos_de_natal	65
livros_tecnicos	123
ferramentas_jardim	753
cine_foto	28
dvds_blu_ray	48
fashion_roupa_feminina	27
beleza_saude	2,444
livros_interesse_geral	216
tablets_impressao_imagem	9
papelaria	849
bebes	919
musica	27
consoles_games	317
eletrodomesticos	370
cama_mesa_banho	3,029
la_cuisine	10
seguros_e_servicos	2
artes_e_artisanato	19
construcao_ferramentas_iluminac	78
eletroportateis	231
malas_acessorios	349
flores	14
artigos_de_festas	26
sinalizacao_e_seguranca	93
alimentos	82
casas_construcao	775

- 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
```

	ABC payment_type	123 total_payment_type	123 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

```
-- 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 X

select payment\_type, count(a.order\_id )total\_order from p | Enter a SQL expression to filter results (use Ctrl+Space)

	ABC payment_type	123 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

```
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

```
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 X

SELECT payment\_type,sum(payment\_value)total\_value\_payment\_type | Enter a SQL expression to filter results (use Ctrl+Space)

	ABC payment_type	123 total_value_payment_type
1	credit_card	10,101,395