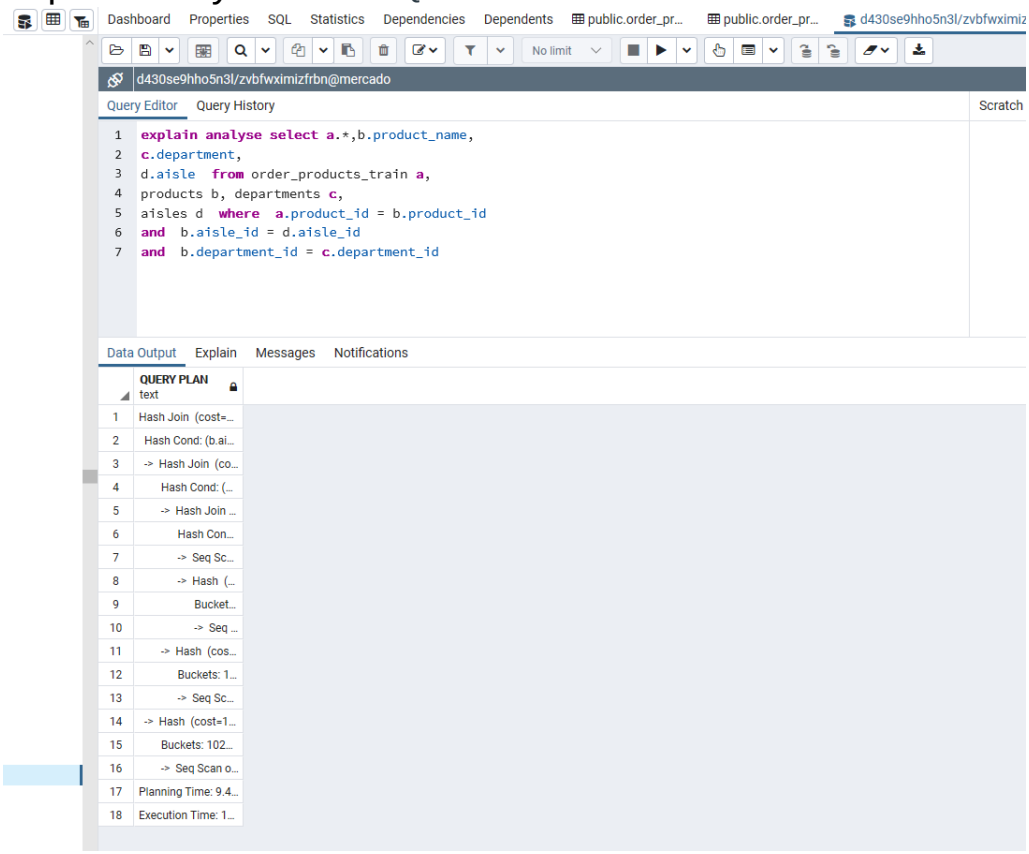
Fatec Carapicuíba – ADS 4

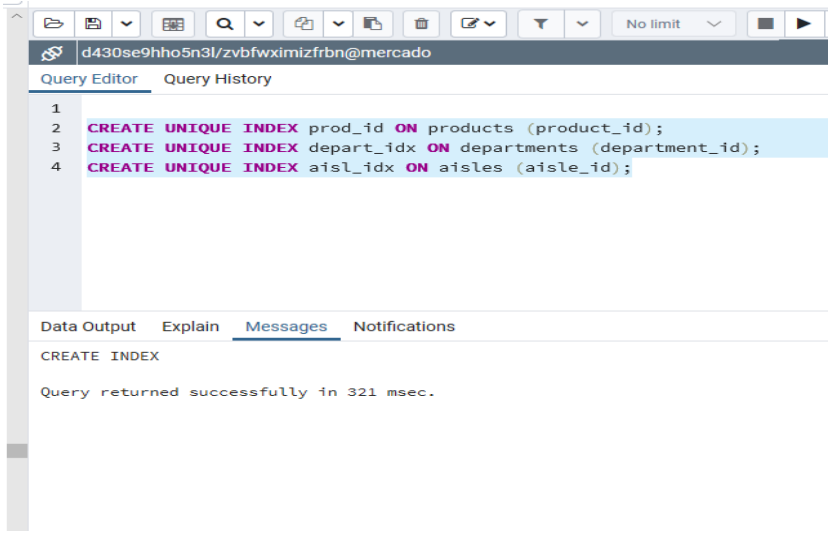
Programação para Banco de Dados

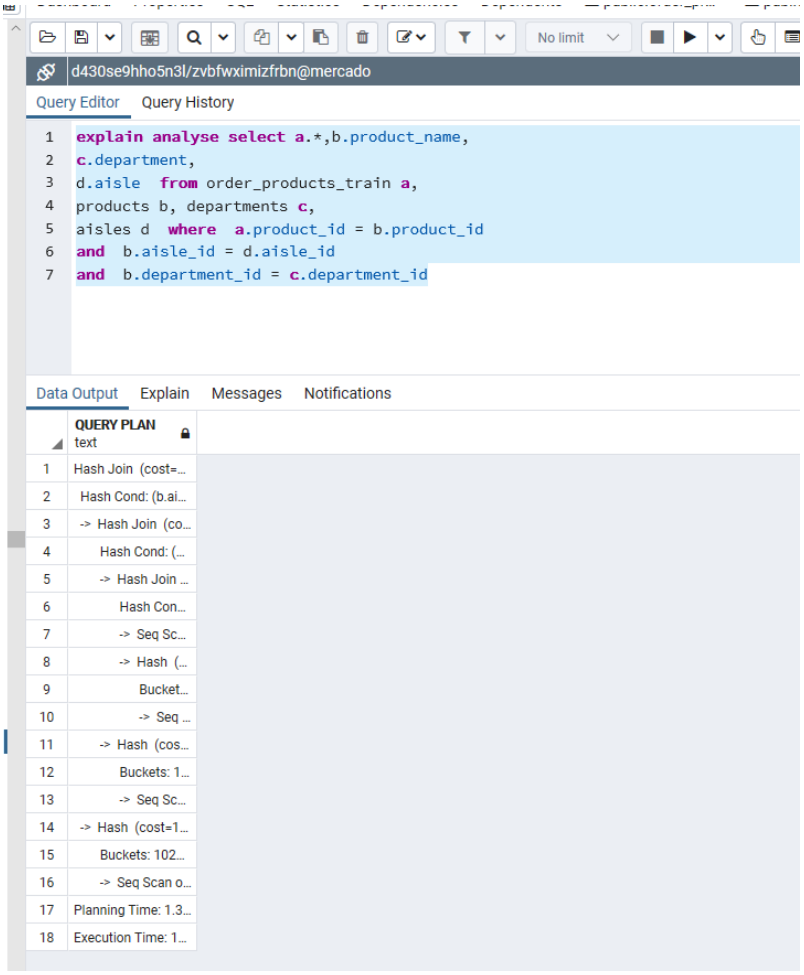
Evelyn Juliane Da Hora Sousa

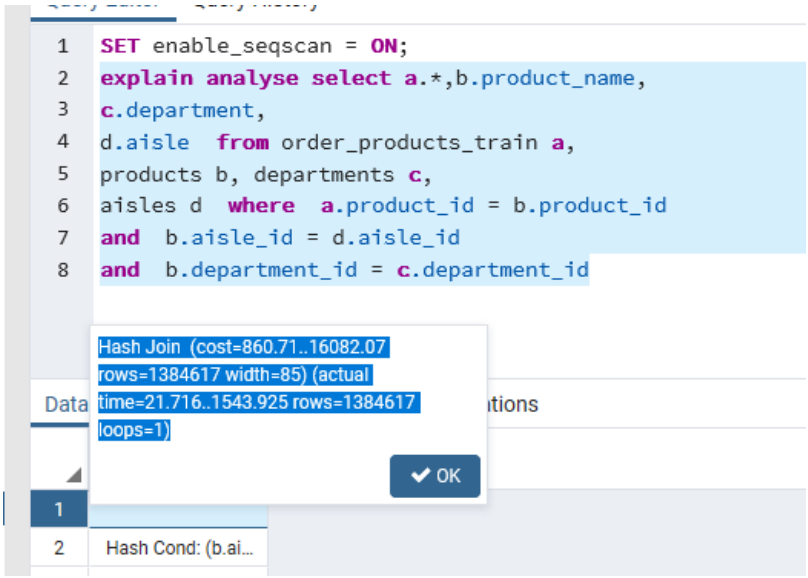
- Explain Analyse com SEQ SCANs



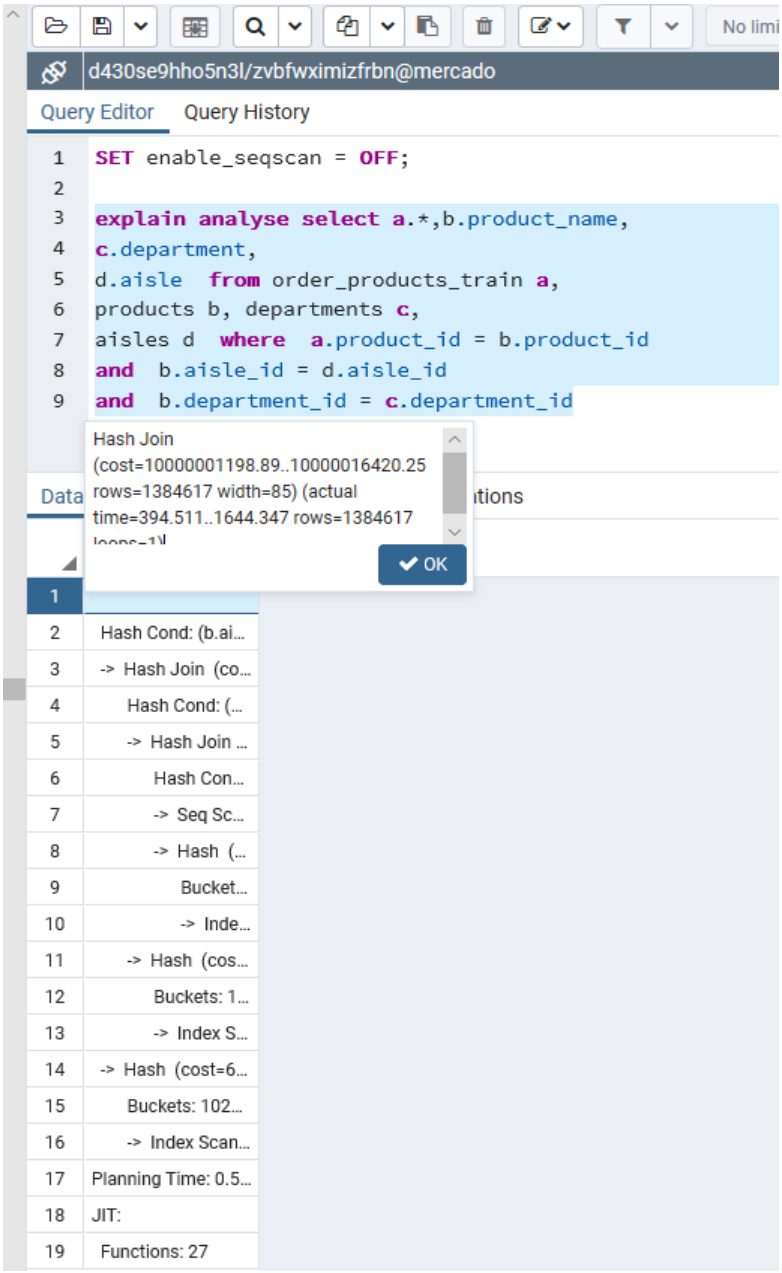
- Create Unique Index




No limit
d430se9hho5n3l/zvbfwximizfrbn@mercado
Query Editor
Query History
explain analyse select a.*,b.product_name,
c.department,
d.aisle from order_products_train a,
products b, departments c,
aisles d where a.product_id = b.product_id
and b.aisle_id = d.aisle_id
and b.department_id = c.department_id
Data Output
Explain
Messages
Notifications
QUERY PLAN
text
Hash Join (cost=...
Hash Cond: (b.ai...
-> Hash Join (co...
Hash Cond: (...
-> Hash Join ...
Hash Con...
-> Seq Sc...
-> Hash (...
Bucket...
-> Seq ...
-> Hash (cos...
Buckets: 1...
-> Seq Sc...
-> Hash (cost=1...
Buckets: 102...
-> Seq Scan o...
Planning Time: 1.3...
Execution Time: 1...


SET enable_seqscan = ON;
explain analyse select a.*,b.product_name,
c.department,
d.aisle from order_products_train a,
products b, departments c,
aisles d where a.product_id = b.product_id
and b.aisle_id = d.aisle_id
and b.department_id = c.department_id
Hash Join (cost=860.71..16082.07 rows=1384617 width=85) (actual time=21.716..1543.925 rows=1384617 loops=1)
OK
Hash Cond: (b.ai...

- SET enable_seqscan = OFF;



Podemos observar que após setarmos enable_seqscan como off o custo aumentou.

- **Create Unique Index para a maior tabela**
  (com set = ON)

```
1  create INDEX order_idx on order_products_train (product_id);
2
3  explain analyse select a.*,b.product_name,
4  c.department,
5  d.aisle  from order_products_train a,
6  products b, departments c,
7  aisles d  where  a.product_id = b.product_id
8  and  b.aisle_id = d.aisle_id
9  and  b.department_id = c.department_id
```

Hash Join (cost=860.71..16082.07 rows=1384617 width=85) (actual time=25.163..1562.554 rows=1384617 loops=1)

OK

1	
2	Hash Cond: (b.ai...
3	-> Hash Join (co...
4	Hash Cond: (...

(Com SET = OFF)

```
1  SET enable_seqscan = OFF;
2  create INDEX order_idx on order_products_train
3
4  explain analyse select a.*,b.product_name,
5  c.department,
6  d.aisle  from order_products_train a,
7  products b, departments c,
8  aisles d  where  a.product_id = b.product_id
9  and  b.aisle_id = d.aisle_id
10 tment_id
```

Hash Join (cost=1198.97..34234.93 rows=1384617 width=85) (actual time=27.797..2733.021 rows=1384617 loops=1)

OK

1	
2	Hash Cond: (b.ai...
3	-> Hash Join (co...
4	Hash Cond: (...