```
1   explain analyse select * from customer where customer.id = 12345
```

Data Output    Explain    Messages    Notifications

| | QUERY PLAN<br>text | 🔒 |
|---|---|---|
| 1 | Index Scan using customer_pkey on customer  (cost=0.29..8.31 rows=1 width=211) … | |
| 2 | [...] Index Cond: (id = 12345) | |
| 3 | Planning Time: 0.077 ms | |
| 4 | Execution Time: 0.051 ms | |

After applying hash index on id column:

```
1   explain analyse select * from customer where customer.id = 12345
```

Data Output    Explain    Messages    Notifications

| | QUERY PLAN<br>text | 🔒 |
|---|---|---|
| 1 | Index Scan using id_hash on customer  (cost=0.00..8.02 rows=1 width=211) (actual… | |
| 2 | [...] Index Cond: (id = 12345) | |
| 3 | Planning Time: 0.179 ms | |
| 4 | Execution Time: 0.037 ms | |

```
1   explain analyse select address from customer where customer.name = 'Eric King'
```

Data Output    Explain    Messages    Notifications

| | QUERY PLAN<br>text | 🔒 |
|---|---|---|
| 1 | Seq Scan on customer  (cost=0.00..4283.00 rows=2 width=44) (actual time=11.080.… | |
| 2 | [...] Filter: (name = 'Eric King'::text) | |
| 3 | [...] Rows Removed by Filter: 99999 | |
| 4 | Planning Time: 0.109 ms | |
| 5 | Execution Time: 19.325 ms | |

After applying heap index on name column:

```
1  explain analyse select address from customer where customer.name = 'Eric King'
```

Data Output  Explain  Messages  Notifications

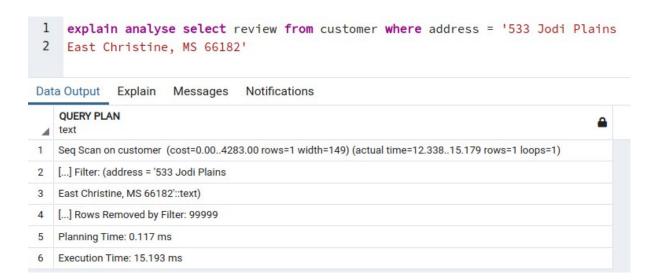| | QUERY PLAN |
|---|---|
| | text |
| 1 | Bitmap Heap Scan on customer  (cost=4.43..12.30 rows=2 width=44) (actual time=0.058..0.060 rows=1 loops=1) |
| 2 | [...] Recheck Cond: (name = 'Eric King'::text) |
| 3 | [...] Heap Blocks: exact=1 |
| 4 | [...] -> Bitmap Index Scan on name_heap  (cost=0.00..4.43 rows=2 width=0) (actual time=0.044..0.045 rows=1 loops=1) |
| 5 | [...] Index Cond: (name = 'Eric King'::text) |
| 6 | Planning Time: 0.355 ms |
| 7 | Execution Time: 0.077 ms |

```
1  explain analyse select review from customer where address = '533 Jodi Plains
2  East Christine, MS 66182'
```

Data Output  Explain  Messages  Notifications

| | QUERY PLAN |
|---|---|
| | text |
| 1 | Seq Scan on customer  (cost=0.00..4283.00 rows=1 width=149) (actual time=12.338..15.179 rows=1 loops=1) |
| 2 | [...] Filter: (address = '533 Jodi Plains |
| 3 | East Christine, MS 66182'::text) |
| 4 | [...] Rows Removed by Filter: 99999 |
| 5 | Planning Time: 0.117 ms |
| 6 | Execution Time: 15.193 ms |

After applying btree index on address column:

```
1  explain analyse select review from customer where address = '533 Jodi Plains
2  East Christine, MS 66182'
```

Data Output  Explain  Messages  Notifications

| | QUERY PLAN |
|---|---|
| | text |
| 1 | Index Scan using address_btree on customer  (cost=0.42..8.44 rows=1 width=149) (actual time=0.049..0.050 rows=1 l... |
| 2 | [...] Index Cond: (address = '533 Jodi Plains |
| 3 | East Christine, MS 66182'::text) |
| 4 | Planning Time: 0.234 ms |
| 5 | Execution Time: 0.066 ms |