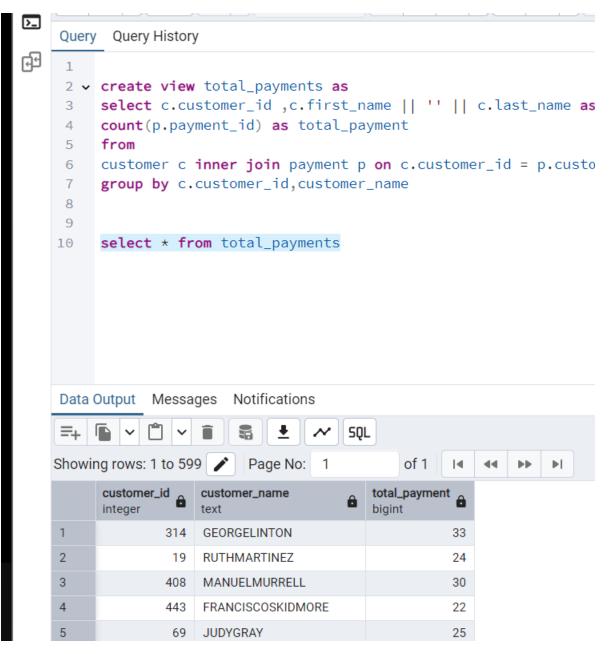
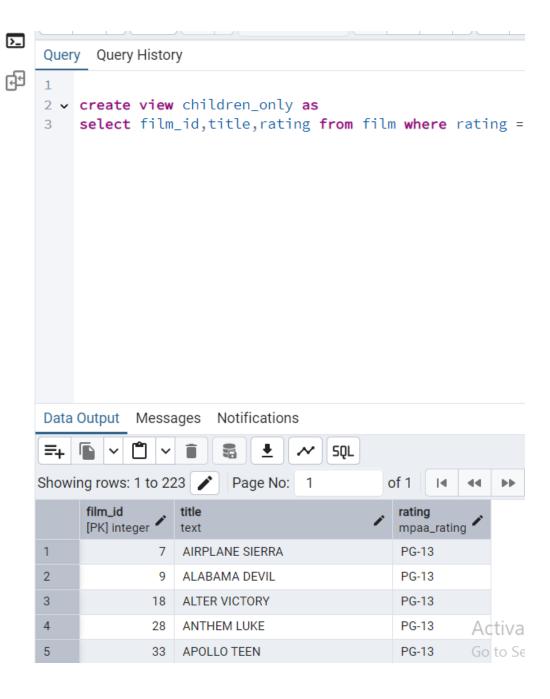
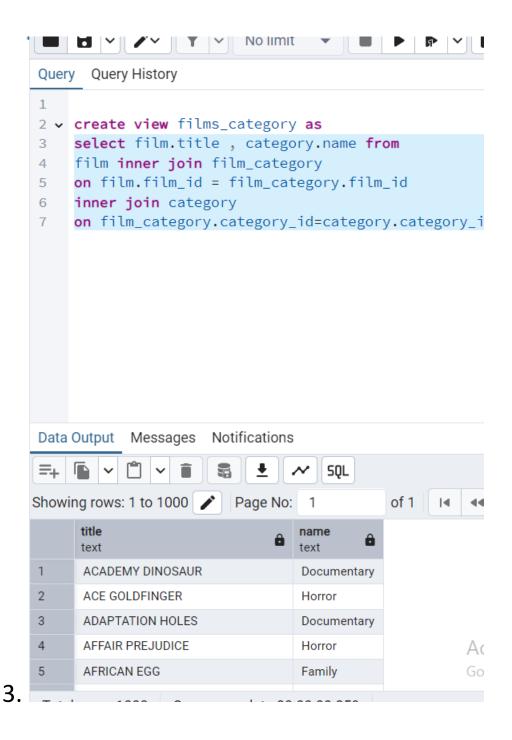
Ahmed Ramadan Elsayed PostegreSQL Lab2



1.

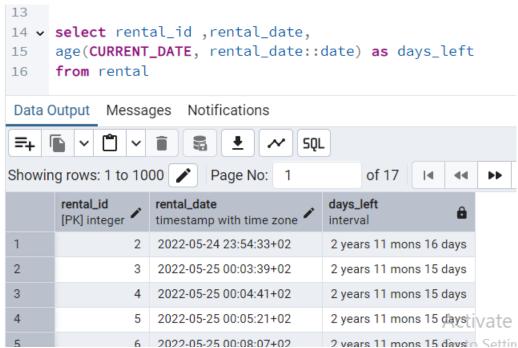




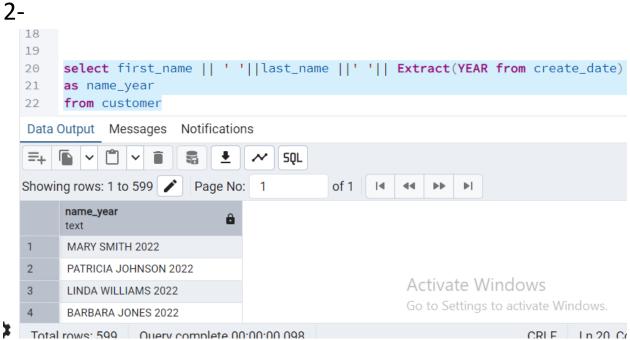
4. Index on rental_date

```
9
    10 ▼ EXPLAIN ANALYZE
           SELECT * FROM film WHERE rating = 'PG' AND rental_duration= 7;
    11
          CREATE INDEX idx_film_rating_duration ON film (rating, rental_duration);
    12
    13
    Data Output Messages Notifications
                                              SQL
    Showing rows: 1 to 7 / Page No: 1
                                                    of 1 | I◀
           QUERY PLAN
            неар віоскя: ехаст=зо
    4
            -> Bitmap Index Scan on idx_film_rating_duration (cost=0.00..4.52 rows=37 width=0) (actual time=0.076..0.076 rows
               Index Cond: ((rating = 'PG'::mpaa_rating) AND (rental_duration = 7))
    5
    6
           Planning Time: 2.489 ms
                                                                  Activate Windows
           Execution Time: 0.199 ms
                                                                  Go to Settings to activate Windows.
5.
```

Built-in functions:



1-



```
select payment_id , customer_id,amount,
  CASE
     when amount > 8 THEN 'High'
     when amount > 5 Then 'Medium'
     Else 'low'
  END AS payment_category
  from
  payment
a Output Messages Notifications
                                   SQL
                                           of 17
wing rows: 1 to 1000
                      Page No:
               customer_id
   payment_id
                                          payment_category
                            amount
                            numeric (5,2)
         16051
                        269
                                     0.99
                                          low
                                                      Activa
         16065
                        274
                                     2.99
                                          low
                                                      Go to Se
         16109
                        297
                                     N 99
                                          low
```

