**WEEK 3 ASSIGNMENT**

**NO 1. DISPLAY THE CUSTOMER NAMES THAT SHARE THE SAME ADDRESS**

```
1   --NO 1. DISPLAY THE CUSTOMER NAMES THAT SHARE THE SAME ADDRESS (e.g.HUSBAND AND WIFE)
2   SELECT cs1.first_name AS firstname, cs1.last_name AS lastname
3       FROM customer AS cs1
4       INNER JOIN customer AS cs2
5       ON cs1.customer_id != cs2.customer_id
6       AND cs1.address_id = cs2.address_id;
7
8
```

Data output    Messages    Notifications

| firstname character varying (45) | lastname character varying (45) |
|---|---|

Total rows: 0 of 0    Query complete 00:00:00.323                                    Ln 6, Col 4

**NO 2. WHAT IS THE NAME OF THE CUSTOMER WHO MADE THE HIGHEST PAYMENTS**

```
1   --NO 2. WHAT IS THE NAME OF THE CUSTOMER WHO MADE THE HIGHEST PAYMENTS
2   SELECT cs.first_name, cs.last_name, SUM(amount) AS total_payment
3    FROM customer as cs
4    INNER JOIN payment as py
5    ON cs.customer_id = py.customer_id
6    GROUP BY cs.first_name, cs.last_name
7    ORDER BY total_payment desc LIMIT 1;
8
9
```

Data output    Messages    Notifications

| first_name character varying (45) | last_name character varying (45) | total_payment numeric |
|---|---|---|
| Eleanor | Hunt | 211.55 |

## NO 3. WHAT IS THE MOVIE(S) THAT WAS RENTED THE MOST

```
8    --NO 3. WHAT IS THE MOVIE(S) THAT WAS RENTED THE MOST
9    SELECT title
10       FROM film
11        WHERE film_id IN
12         (SELECT film_id
13      FROM rental AS R
14      JOIN inventory  AS I
15      ON R.inventory_id = I.inventory_id
16      GROUP BY film_id
17      HAVING count(film_id) =
18         (SELECT count(film_id)
19      FROM rental AS R
20      JOIN inventory AS I
21      ON R.inventory_id = I.inventory_id
22      GROUP BY film_id
23      ORDER BY count(film_id) DESC LIMIT 1));
24
```

Data output    Messages    Notifications

| title character varying (255) |
|---|
| Bucket Brotherhood |

Total rows: 1 of 1    Query complete 00:00:01.131

NO 4. WHICH MOVIES HAVE BEEN RENTED SO FAR

```
24
25
26  --NO 4. WHICH MOVIES HAVE BEEN RENTED SO FAR
27  SELECT (title) AS rented_movies
28      FROM film
29      WHERE film_id IN
30  (SELECT DISTINCT (film_id)
31      FROM rental AS R
32      JOIN inventory AS I
33      ON R.inventory_id = I.inventory_id
34  GROUP BY film_id);
35
```

Data output    Messages    Notifications

| | rented_movies character varying (255) 🔒 |
|---|---|
| 1 | Chamber Italian |
| 2 | Grosse Wonderful |
| 3 | Airport Pollock |
| 4 | Bright Encounters |
| 5 | Academy Dinosaur |
| 6 | Ace Goldfinger |
| 7 | Adaptation Holes |

Total rows: 958 of 958    Query complete 00:00:01.276

NO 5. WHICH MOVIES HAVE NOT BEEN RENTED SO FAR

```sql
26  --NO 5. WHICH MOVIES HAVE NOT BEEN RENTED SO FAR
27  SELECT title
28      FROM film
29      WHERE film_id NOT IN
30      (SELECT DISTINCT(film_id)
31    FROM rental AS R
32    JOIN inventory  AS I
33    ON R.inventory_id = I.inventory_id
34    GROUP BY film_id);
35
```

Data output    Messages    Notifications

| | title character varying (255) |
|---|---|
| 1 | Alice Fantasia |
| 2 | Apollo Teen |
| 3 | Argonauts Town |
| 4 | Ark Ridgemont |
| 5 | Arsenic Independence |
| 6 | Boondock Ballroom |
| 7 | Butch Panther |
| 8 | Catch Amistad |
| 9 | Chinatown Gladiator |

Total rows: 42 of 42    Query complete 00:00:01.551

NO 6. WHICH CUSTOMERS HAVE NOT RENTED ANY MOVIES SO FAR

```
35   --NO 6. WHICH CUSTOMERS HAVE NOT RENTED ANY MOVIES SO FAR
36   SELECT first_name, last_name
37       FROM customer as c
38       WHERE customer_id NOT IN
39           (SELECT DISTINCT(customer_id)
40           FROM rental as r
41           WHERE r.customer_id = c.customer_id);
42
```

Data output   Messages   Notifications

| first_name              | last_name               |
|-------------------------|-------------------------|
| character varying (45)  | character varying (45)  |

NO 7. DISPLAY EACH MOVIE AND THE NUMBER OF TIMES IT GOT RENTED

```
42  --NO 7. DISPLAY EACH MOVIE AND THE NUMBER OF TIMES IT GOT RENTED
43  SELECT film_id, count(film_id)
44      FROM
45          rental as r
46          Join inventory as i
47          ON r.inventory_id = i.inventory_id
48          GROUP By film_id
49      ORDER BY count(film_id) desc
```

Data output    Messages    Notifications

| | film_id smallint | count bigint |
|---|---|---|
| 1 | 103 | 34 |
| 2 | 738 | 33 |
| 3 | 382 | 32 |
| 4 | 331 | 32 |
| 5 | 730 | 32 |
| 6 | 489 | 32 |
| 7 | 767 | 32 |
| 8 | 1000 | 31 |
| 9 | 621 | 31 |
| 10 | 369 | 31 |

Total rows: 958 of 958    Query complete 00:00:01.712

NO 8. SHOW THE FIRST_NAME AND LAST_NAME AND NUMBER OF FILMS EACH ACTOR ACTED IN

```
50   --NO 8. SHOW THE FIRST_NAME AND LAST_NAME AND NUMBER OF FILMS EACH ACTOR ACTED IN
51   SELECT first_name, last_name, COUNT (film_actor.film_id) AS number_films
52       FROM film_actor
53       JOIN actor
54       ON film_actor.actor_id = actor.actor_id
55     GROUP BY first_name, last_name
56     ORDER BY number_films;
57
```

Data output    Messages    Notifications

| | first_name character varying (45) | last_name character varying (45) | number_films bigint |
|---|---|---|---|
| 1 | Emily | Dee | 14 |
| 2 | Julia | Fawcett | 15 |
| 3 | Judy | Dean | 15 |
| 4 | Julia | Zellweger | 16 |
| 5 | Adam | Grant | 18 |
| 6 | Sissy | Sobieski | 18 |
| 7 | Penelope | Guiness | 19 |
| 8 | Sandra | Peck | 19 |
| 9 | Cameron | Wray | 19 |
| 10 | Russell | Close | 19 |

Total rows: 199 of 199    Query complete 00:00:00.930

NO 9. DISPLAY THE NAMES OF ACTORS THAT ACTED IN MORE THAN 20 MOVIES

```
58  --NO 9. DISPLAY THE NAMES OF ACTORS THAT ACTED IN MORE THAN 20 MOVIES
59  SELECT first_name, last_name, count (film_actor.film_id)
60      FROM actor
61          JOIN film_actor
62          ON actor.actor_id = film_actor.actor_id
63          GROUP BY first_name, last_name
64          HAVING count (film_actor.film_id) > 20;
65
```

Data output    Messages    Notifications

| | first_name<br>character varying (45) 🔒 | last_name<br>character varying (45) 🔒 | count<br>bigint 🔒 |
|---|---|---|---|
| 1 | Renee | Ball | 33 |
| 2 | Burt | Dukakis | 29 |
| 3 | Liza | Bergman | 25 |
| 4 | Sidney | Crowe | 34 |
| 5 | Angelina | Astaire | 31 |
| 6 | Ed | Mansfield | 32 |
| 7 | Ray | Johansson | 30 |
| 8 | Laura | Brody | 26 |
| 9 | Michelle | Mcconaughey | 23 |
| 10 | Frances | Day-Lewis | 26 |

Total rows: 180 of 180    Query complete 00:00:01.167                    Ln 58, Co

NO 10.  FOR ALL THE MOVIES RATED "PG" SHOW ME THE MOVIE AND THE NUMBER OF
TIMES IT GOT RENTED

```
71  -- NO 10. FOR ALL THE MOVIES RATED 'PG' SHOW ME THE MOVIE AND THE NUMBER OF TIMES IT GOT RENTED
72  SELECT film.film_id, COUNT(film.film_id)
73        FROM film
74        JOIN inventory
75        ON film.film_id = inventory.film_id
76        JOIN rental
77        ON rental.inventory_id = inventory.inventory_id
78     GROUP BY film.film_id
79     HAVING rating = 'PG'
80     ORDER BY film.film_id;
81
82
```

Data output    Messages    Notifications

| | title character varying (255) |
|---|---|
| 1 | Alice Fantasia |
| 2 | Apollo Teen |
| 3 | Argonauts Town |
| 4 | Ark Ridgemont |
| 5 | Arsenic Independence |
| 6 | Boondock Ballroom |
| 7 | Butch Panther |

Total rows: 42 of 42    Query complete 00:00:01.551                                                        Ln 70, C

NO 11. DISPLAY THE MOVIES OFFERED FOR RENT IN STORE_ID 1 AND NOT IN STORE_ID 2.

```
92   --NO 11. DISPLAY THE MOVIES OFFERED FOR RENT IN STORE_ID 1 AND NOT OFFERED IN STORE_ID 2
93   SELECT film_id
94      FROM inventory
95      WHERE store_id = 1 and film_id NOT IN (
96   select film_id from inventory
97   where store_id =2);
98
```

Data output    Messages    Notifications

| | film_id<br>smallint 🔒 |
|---|---|
| 1 | 20 |
| 2 | 20 |
| 3 | 20 |
| 4 | 24 |
| 5 | 24 |
| 6 | 24 |
| 7 | 24 |
| 8 | 27 |
| 9 | 27 |
| 10 | 27 |
| 11 | 27 |
| 12 | 28 |

Total rows: 576 of 576    Query complete 00:00:01.775

NO 12. DISPLAY THE MOVIES OFFERED FOR RENT IN ANY OF THE TWO STORES 1 AND 2

```
98
99   --NO 12. DISPLAY THE MOVIES OFFERED FOR RENT IN ANY OF THE TWO STORES 1 AND 2
100  SELECT film_id FROM inventory
101      WHERE store_id = 1
102      UNION
103      (SELECT film_id FROM inventory
104       WHERE store_id = 2);
105
```

Data output    Messages    Notifications

| | film_id smallint |
|---|---|
| 1 | 273 |
| 2 | 951 |
| 3 | 176 |
| 4 | 576 |
| 5 | 292 |
| 6 | 663 |
| 7 | 764 |
| 8 | 556 |
| 9 | 173 |
| 10 | 876 |
| 11 | 161 |

Total rows: 958 of 958    Query complete 00:00:01.566

NO 13. DISPLAY THE MOVIE TITLES OF THOSE STORES OFFERED IN BOTH STORES AT THE SAME TIME

```sql
116  --N0 13. DISPLAY THE MOVIE TITLES OF THOSE STORES OFFERED IN BOTH STORES AT THE SAME TIME
117  SELECT title
118      FROM  film
119       WHERE film_id in
120           ((SELECT film_id
121       FROM inventory
122        WHERE store_id = 1)
123             INTERSECT
124            (SELECT film_id
125               FROM inventory
126                WHERE store_id = 2));
127
```

Data output    Messages    Notifications

| | title<br>character varying (255) |
|---|---|
| 1 | Velvet Terminator |
| 2 | Core Suit |
| 3 | Rush Goodfellas |
| 4 | Effect Gladiator |
| 5 | Balloon Homeward |
| 6 | Voyage Legally |
| 7 | Bikini Borrowers |

Total rows: 563 of 563    Query complete 00:00:02.941                    Ln 126,

NO 14. DISPLAY THE MOVIE TITLE FOR THE MOST THE RENTED MOVIE IN
STORE WITH STORE 1

```
160  -- NO 14. DISPLAY THE MOVIE TITLE FOR THE MOST RENTED MOVIE IN STORE WITH STORE_D 1
161  SELECT title
162    FROM film
163    WHERE film_id IN
164        (SELECT (film_id)
165    FROM inventory
166        LEFT JOIN rental
167        ON inventory.inventory_id = rental.inventory_id
168    WHERE store_id = 1
169        GROUP BY film_id, inventory.store_id
170        HAVING count(film_id) =
171        (SELECT COUNT( film_id)
172    FROM inventory
173        LEFT JOIN rental
174        ON inventory.inventory_id = rental.inventory_id
175    WHERE store_id = 1
176        GROUP BY film_id, inventory.store_id
177      ORDER BY count(film_id) DESC LIMIT 1));
178
```

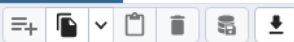Data output    Messages    Notifications

| title<br>character varying (255) 🔒 |
| --- |
| 1  Love Suicides |

Total rows: 1 of 1     Query complete 00:00:02.317

NO 15.  HOW MANY MOVIES ARE NOT OFFERED FOR RENT IN STORES YET. THERE
ARE TWO STORE ONLY 1 AND 2

```
147
148   --NO 15. HOW MANY MOVIES ARE NOT OFFERED FOR RENT IN THE STORES YET. THERE ARE TWO STORES ONLY 1 AND 2
149   SELECT count (film_id) AS not_for_rent
150       FROM film
151       WHERE film_id NOT IN
152   ((SELECT (film_id )
153       FROM inventory
154       WHERE store_id = 1)
155       union all
156       (SELECT (film_id) from inventory
157       WHERE store_id = 2));
```

Data output    Messages    Notifications

| | not_for_rent 🔒<br>bigint |
|---|---|
| 1 | 42 |

NO 16. SHOW THE NUMBER OF RENTED MOVIES UNDER EACH RATING

```
160   -- N0 16. SHOW THE NUMBER OF RENTED MOVIES UNDER EACH RATING
161   SELECT COUNT(inventory.film_id), film.rating
162       FROM inventory
163       LEFT JOIN film
164       ON inventory.film_id = film.film_id
165       JOIN rental
166       ON rental.inventory_id = inventory.inventory_id
167       GROUP BY film.rating
168       ORDER BY count (inventory.film_id) DESC;
```

Data output    Messages    Notifications

| | count 🔒<br>bigint | rating 🔒<br>mpaa_rating |
|---|---|---|
| 1 | 3585 | PG-13 |
| 2 | 3293 | NC-17 |
| 3 | 3212 | PG |
| 4 | 3181 | R |
| 5 | 2773 | G |

Total rows: 5 of 5    Query complete 00:00:01.420                                    Ln 167, Col 14

NO 17. SHOW THE PROFIT OF EACH OF THE STORES 1 AND 2

```
169
170
171   -- NO 17. SHOW THE PROFIT OF EACH OF THE STORES 1 AND 2
172   SELECT store_id, SUM(amount)
173     FROM rental AS R
174       JOIN payment AS P
175       ON R.rental_id = P.rental_id
176       JOIN inventory AS I
177       ON R.inventory_id = I.inventory_id
178       WHERE store_id IN ('1', '2')
179       GROUP BY store_id
180       ORDER BY count(store_id ) ASC;
181
```

Data output   Messages   Notifications

| store_id smallint | sum numeric |
|---|---|
| 1 | 30628.91 |
| 2 | 30683.13 |