Nama : Diemas Aksya Fachriza

Kelompok : DS-1

1. A customer wants to know the films about 'ancient'. How many recommendations could you give for him?

I could recommend 124 films regarding 'ancient'.

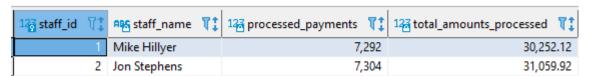
2. I wonder, how many films have a rating of "R" and a replacement cost between \$5 and \$15? SQL Code

There are 52 films with the above condition.

3. We have two staff members with staff IDs 1 and 2. We want to give a bonus to the staff member that handled the most payments. How many payments did each staff member handle? And how much was the total amount processed by each staff member SQL Code

```
select
    s.staff_id,
    concat(first_name, ' ', last_name) staff_name,
    count(p.payment_id) processed_payments,
    sum(p.amount) total_amounts_processed
from
    staff s
join payment p on
    p.staff_id = s.staff_id
group by
    s.staff_id
```

Result



Jon Stephens handled and processed more payment amounts. He deserve the bonus.

4. Corporate headquarters is auditing the store, they want to know the average replacement cost of movies by rating

SQL Code

```
select
    rating,
    avg(replacement_cost) avg_replacement_cost
from
    film
group by
    rating
```

Result

ABC rating 🏋 🕽	124 avg_replacement_cost 🏋
NC-17	20.1376190476
G	20.1248314607
PG	18.9590721649
PG-13	20.4025560538
R	20.231025641

The above are the replacement cost of each genre.

5. We want to send coupons to the 5 customers who have spent the most amount of money. Get the customer name, emal and their spent amount!

SQL Code

```
select
    concat(c.first_name, ' ', c.last_name) customer_name,
    c.email,
    sum(p.amount) total_spent

from
    customer c
join payment p on
    p.customer_id = c.customer_id

group by
    c.first_name,
    c.last_name ,
    c.email

order by
    total_spent desc
limit 5
```

Result

Re⊆ customer_name	ABC email T:	12ॡ total_spent 🏋‡
Eleanor Hunt	eleanor.hunt@sakilacustomer.org	211.55
Karl Seal	karl.seal@sakilacustomer.org	208.58
Marion Snyder	marion.snyder@sakilacustomer.org	194.61
Rhonda Kennedy	rhonda.kennedy@sakilacustomer.org	191.62
Clara Shaw	clara.shaw@sakilacustomer.org	189.6
1		

These 5 customers spent the most amount of money. They deserve the coupons.

6. I wonder, how many distinct users have rented each genre? And what is the average rental rate per movie genre? (from the highest to the lowest rental rate) SQL Code

```
select
    c."name" genre_name,
    count(distinct(r.customer_id)) unique_rent_amounts,
    avg(f.rental_rate) avg_rent_rate
    rental r
join inventory i on
    r.inventory_id = i.inventory_id
join film f on
    i.film_id = f.film_id
join film_category fc on
    fc.film id = f.film id
join category c on
    fc.category_id = c.category_id
group by
    c."name"
order by
   avg_rent_rate desc
```

Result

Reg genre_name \(\)	123 unique_rent_amounts	T:	123 avg_rent_rate 🏋 🕻
Travel		442	3.3173596177
Comedy		495	3.2833049947
Drama		501	3.1824528302
Games		474	3.1303508772
Horror		451	3.1011111111
New		468	3.09
Sports		519	3.0680322307
Music		447	3.0622891566
Sci-Fi		507	2.9881834696
Foreign		493	2.95321394
Animation		500	2.7601543739
Family		501	2.6998540146
Children		482	2.6894708995
Action		510	2.668057554
Classics		468	2.6385623003
Documentary		483	2.6166666667

7. We want to know what customers are eligible for our platinum credit card. The requirements are that the customer has at least a tote of 40 transaction payments. Get the customer name, email who are eligible for the credit card!

SQL Code

```
select
    concat(c.first_name, ' ', c.last_name) customer_name,
    c.email,
    count(p.payment_id) transaction_amounts
from
    customer c
join payment p on
    p.customer_id = c.customer_id
group by
    c.first_name,
    c.last_name,
    c.email
having
    count(p.payment_id) >= 40
order by
    transaction_amounts desc
Result
 ASS customer_name
                       ABC email
                                                    123 transaction_amounts
                                                                           45
                       eleanor.hunt@sakilacustomer.org
 Karl Seal
                       karl.seal@sakilacustomer.org
                                                                           42
                                                                           40
 Clara Shaw
                       clara.shaw@sakilacustomer.org
```

These 3 customers are eligible for the platinum credit card.