

# Descriptive Statistics of the variable Rental\_duration & Rental\_rate from the film table

Min_lengt	Max_Length	Avg_length	Min_rental_rate	Max_rental_rate	Avg_rantal_rate	Min_replacement_cost			Max_replacement_rate		
45	185	115.27200	0.99	4.99	2.98000	9.99			29.99		

Query

SELECT

Min(length) as min\_length,

Max(length) as max\_length,

AVG(length) as avg\_length,

Min(rental\_rate) as min\_rental\_rate,

Max(rental\_rate) as max\_rental\_rate,

AVG(rental\_rate) as avg\_rental\_rate,

Min(replacement\_cost) as min\_replacement\_cost,

Max(replacement\_cost) as max\_replacement\_cost,

AVG(replacement\_cost) as avg\_replacement\_cost,

from film;



Descriptive Statistics for the film table. Non-numeric column-Mode value for Rating output

Rating	Rating count
PG-13	223

```
Query
SELECT
rating,
COUNT(*) As rating_count
from film
Group by rating
order by rating_count DESC
limit 1;
```

### Descriptive Statistics for customer table-Store\_mode\_value

Store_mode_value		First_name_mode_value	Last_name_mode_value	Address_id_mode_value	Active_id_mode_value	Create_date_mode_value
1		Jamie	Abney	5	1	14-02-2006

Query

```
SELECT mode()within group (order by Store_id)As Store_mode_value,  
       mode()within group (order by first_name)As first_name_mode_value,  
       mode()within group (order by last_name)As last_name_mode_value,  
       mode()within group(order by address_id)As address_id_mode_value,  
       mode()within group (order by active)As active_id_mode_value,  
       mode()within group (order by create_date)As create_datte_mode_value  
from customer
```

### Top 10 countries for Rockbuster in terms of customer numbers

Country	Count
India	60
China	53
United States	36
Japan	31
Mexico	30
Brazil	28
Russian Federation	28
Phillippines	20
Turkey	15
Indonesia	14

Query

```
SELECT D.country,  
count (customer_id)  
from customer A  
INNER JOIN address B ON A.address_id=B.address_id  
INNER JOIN city C ON B.city_id=c.city_id  
INNER JOIN country D ON C.country_id=D.country_id  
Group by country  
Order by count DESC  
limit 10
```

Top 10 cities within the top 10 countries for Rockbuster  
in terms of customer numbers

	Country	City	Count
1	United Kingdom	London	2
2	United States	Aurora	2
3	Spain	Santiago de compostela	1
4	Japan	Iwaki	1
5	China	Shanwei	1
6	Morocco	Nador	1
7	China	Tianjin	1
8	Angola	Benguela	1
9	South Africa	Rustenburg	1
10	South Africa	Newcastle	1

Query

```

SELECT D.country,
c.city,
count (customer_id)
from customer A
INNER JOIN address B ON A.address_id=B.address_id
INNER JOIN city C ON B.city_id=c.city_id
INNER JOIN country D ON C.country_id=D.country_id
Group by country,city
Order by count DESC
limit 10

```



**Top 5 customers in the top 10 cities who have paid the highest total amounts to rockbuster**

Country_id	First_name	Last_name	Country	City	Total_amount_paid
550	Guy	Brownlee	China	Zhoushan	151.69
573	Byron	Box	Kazakstan	Zhezqazghan	117.72
220	Charlene	Alvarez	Tanzania	Zanzibar	109.75
324	Gary	Coy	China	Yuzhou	95.78
456	Ronnie	Ricketts	Senegal	Ziguinchor	95.76

Query

```
SELECT c.customer_id,  
       c.first_name,  
       c.last_name,  
       co.country,  
       ci.city,  
       sum(p.amount)As total_amount_paid  
from customer c  
INNER JOIN address a ON c.address_id=a.address_id  
INNER JOIN city ci ON a.city_id=ci.city_id  
INNER JOIN country co ON ci.country_id=co.country_id  
INNER JOIN payment p ON C.customer_id=p.customer_id  
where ci.city IN(  
select city  
from city  
order by 1 DESC  
limit 10  
)  
Group by c.customer_id,c.first_name,c.last_name,co.country,ci.city  
order by total_amount_paid DESC  
limit 5
```