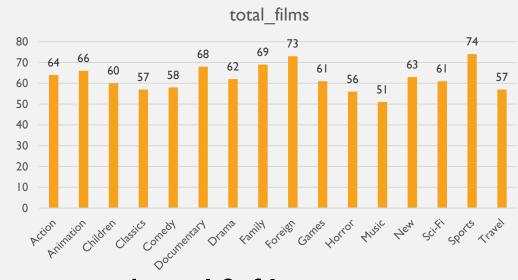


### -- I THE TOTAL NUMBER OF FILMS IN EACH CATEGORY

SELECT c.name AS category\_name,
COUNT(f.film\_id) AS total\_films
FROM category c
LEFT JOIN film\_category fc
ON c.category\_id = fc.category\_id
LEFT JOIN film f
ON fc.film\_id = f.film\_id
GROUP BY c.name;



## -- 2 the names of actors who have acted in more than 10 films

SELECT a.first\_name, a.last\_name, COUNT(fa.film\_id) AS total\_films

FROM actor a

JOIN film\_actor fa

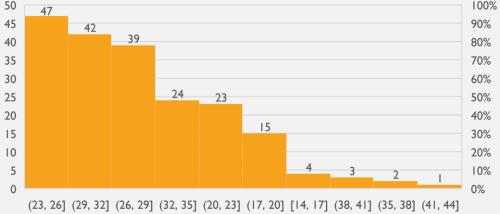
ON a.actor\_id = fa.actor\_id

GROUP BY a.actor\_id

HAVING total films > 10;

first_name	last_name	total_films
GINA	DEGENERES	42
WALTER	TORN	41
MARY	KEITEL	40
MATTHEW	CARREY	39
SANDRA	KILMER	37

number\_of\_actor\_per\_films\_range



#### -- 3 THE AVERAGE RENTAL DURATION OF FILMS CATEGORIZED AS 'ACTION'

```
SELECT AVG(f.rental_duration) AS average_rental_duration
FROM film f

JOIN film_category fc

ON f.film_id = fc.film_id

JOIN category c

ON fc.category_id = c.category_id

WHERE c.name = 'Action';
```

```
average_rental_duration
4.9531
```

## -- 4 the top 10 customers and their total rentals

```
SELECT c.first_name, c.last_name, COUNT(r.rental_id) AS total_rentals
FROM customer c
JOIN rental r
ON c.customer_id = r.customer_id
GROUP BY c.customer_id
ORDER BY total_rentals DESC
LIMIT 10;
```



### -- 5 THE TOTAL AMOUNT FROM RENTALS

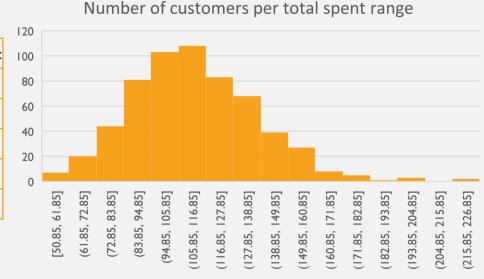
SELECT SUM(p.amount) AS total\_amount\_from\_rentals FROM payment P;

total\_amount\_from\_rentals
67406.56

# -- 6 the customers names based on their total spending on rentals

SELECT c.first\_name, c.last\_name, SUM(p.amount) AS total\_spent FROM customer c JOIN payment p ON c.customer\_id = p.customer\_id GROUP BY c.customer id

last_name	total_spent
SEAL	221.55
HUNT	216.54
SHAW	195.58
KENNEDY	194.61
SNYDER	194.61
	SEAL HUNT SHAW KENNEDY



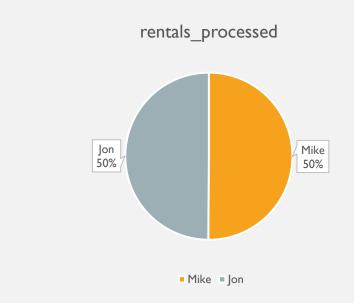
#### -- 7 THE STAFF MEMBERS AND THE NUMBER OF RENTALS THEY PROCESSED

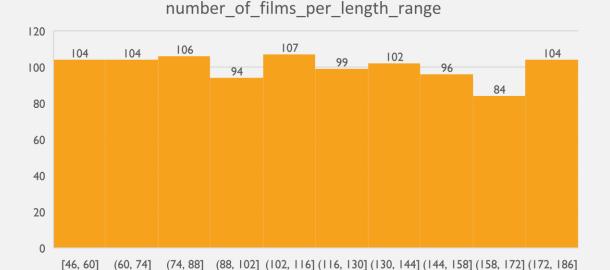
SELECT s.first\_name, s.last\_name,
COUNT(r.rental\_id) AS rentals\_processed
FROM staff s
LEFT JOIN rental r
ON s.staff\_id = r.staff\_id
GROUP BY s.staff\_id;

## -- 8 all films and there length

SELECT title, length FROM film ORDER BY length DESC;

Average of length





#### -- 9 THE ACTORS WHO HAVE APPEARED IN FILMS BASED ON RENTAL RATE.

```
SELECT distinct (a.first_name),f.rental_rate
FROM actor a
JOIN film_actor fa
ON a.actor_id = fa.actor_id
JOIN film f
ON fa.film_id = f.film_id
ORDER BY f.rental_rate DESC;
```

Rental rate	Number of actors
0.99	128
2.99	128
4.99	128
Grand Total	384

## -- 10 the total count of customers in each country

SELECT co.country, COUNT(c.customer\_id) AS total\_customers

FROM country co

JOIN city ci

ON co.country\_id = ci.country\_id

JOIN address a

ON ci.city\_id = a.city\_id

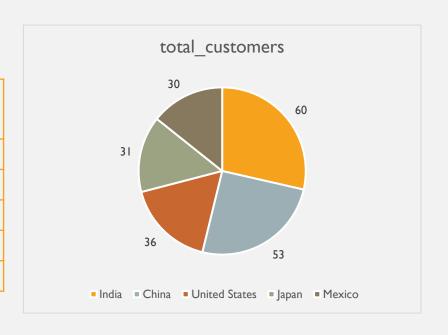
JOIN customer c

ON a.address\_id = c.address\_id

GROUP BY co.country

ORDER BY total\_customers DESC;

total_custo mers
60
53
36
31
30



### -- II THE FILMS THAT HAVE BEEN RENTED MORE THAN FIVE TIME

```
SELECT f.title, COUNT(r.rental_id) AS rental_count FROM film f

JOIN inventory i

ON f.film_id = i.film_id

JOIN rental r

ON i.inventory_id = r.inventory_id

GROUP BY f.film_id

HAVING rental_count > 5

ORDER BY rental_count DESC;
```

title	rental_count
<b>BUCKET BROTHERHOOD</b>	34
ROCKETEER MOTHER	33
FORWARD TEMPLE	32
GRIT CLOCKWORK	32
JUGGLER HARDLY	32

# -- 12 the total number of rentals and total amount by each film

SELECT f.title, COUNT(r.rental\_id) AS total\_rentals, SUM(p.amount) AS total\_amount

FROM film f

LEFT JOIN inventory i

ON f.film\_id = i.film\_id

LEFT JOIN rental r

ON i.inventory\_id = r.inventory\_id

LEFT JOIN payment p

ON r.rental\_id = p.rental\_id

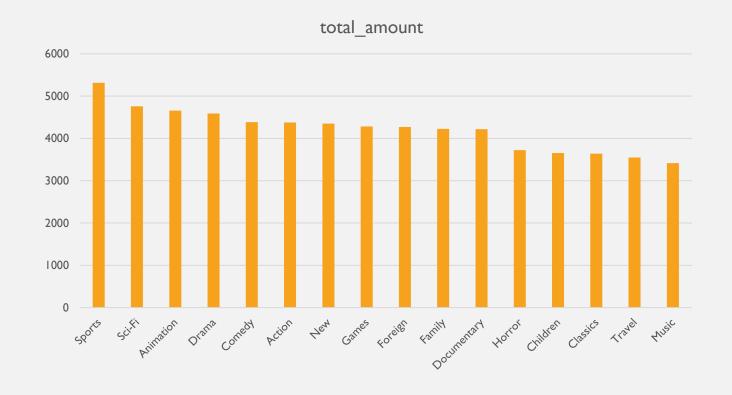
GROUP BY f.film\_id

ORDER BY total\_rentals DESC;

title	total_rentals	total_amoun t
TELEGRAPH VOYAGE	27	231.73
WIFETURN	31	223.69
ZORRO ARK	31	214.69
GOODFELLAS SALUTE	31	209.69
SATURDAY LAMBS	28	204.72

# -- 13 the total amount generated by each category of films

SELECT c.name AS category, SUM(p.amount) AS total amountFROM category c JOIN film\_category fc ON c.category\_id = fc.category\_id JOIN film f ON fc.film id = f.film idJOIN inventory i ON f.film id = i.film idJOIN rental r ON i.inventory\_id = r.inventory\_id JOIN payment p ON r.rental id = p.rental id GROUP BY c.category id;



# -- 14 the total number of films rented by each customer

SELECT c.first\_name, c.last\_name, COUNT(f.film\_id) AS total\_films

FROM customer c

LEFT JOIN rental r

ON c.customer\_id = r.customer\_id

LEFT JOIN inventory i

ON r.inventory\_id = i.inventory\_id

LEFT JOIN film f

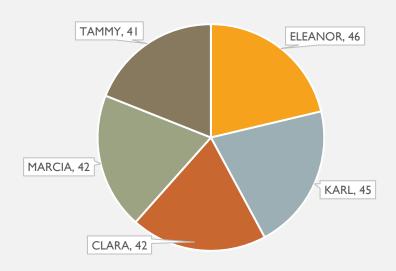
ON i.film id = f.film id

GROUP BY c.customer id

ORDER BY total\_films DESC;

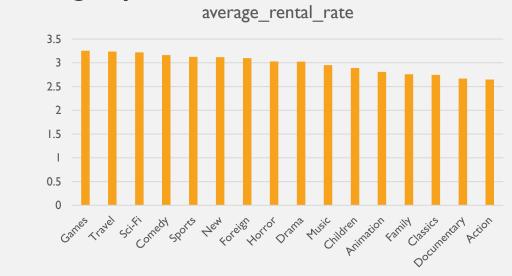
first_name	last_name	total_films
ELEANOR	HUNT	46
KARL	SEAL	45
CLARA	SHAW	42
MARCIA	DEAN	42
TAMMY	SANDERS	41

total\_films



## -- 15 the average rental rate for films in each category

SELECT c.name AS category\_name, AVG(f.rental\_rate) AS average\_rental\_rate
FROM category c
JOIN film\_category fc
ON c.category\_id = fc.category\_id
JOIN film f ON fc.film\_id = f.film\_id
GROUP BY c.category\_id
ORDER BY average rental rate DESC;



### -- 16 the number of actors in each film

SELECT f.title, COUNT(fa.actor\_id) AS

FROM film f

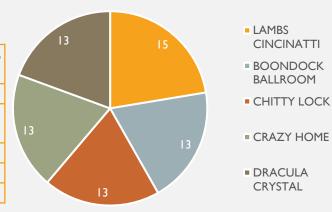
LEFT JOIN film\_actor fa

ON f.film\_id = fa.film\_id

GROUP BY f.film\_id

ORDER BY total\_actors DESC;

title	total_acto	
	rs	
LAMBS CINCINATTI	15	
BOONDOCK	13	
BALLROOM	13	
CHITTY LOCK	13	
CRAZY HOME	13	
DRACULA CRYSTAL	13	



count of	Count of
actors	films
15	I
13	6
12	6
11	14
10	21
9	49
8	90
7	119
6	150
5	195
4	137
3	119
2	69
I	21
0	3
<b>Grand Total</b>	1000