MySQL TASK-3

1. Display the first and last name of each actor in a single column in upper case letters in alphabetic order. Name the column Actor Name.

```
mysql> select upper(concat(first name,' ',last name))as Actor name
    -> from actor
    -> order by concat(first name, ' ',last name) ASC ;
 Actor name
 ADAM GRANT
 ADAM HOPPER
 AL GARLAND
 ALAN DREYFUSS
 ALBERT JOHANSSON
 ALBERT NOLTE
 ALEC WAYNE
 ANGELA HUDSON
 ANGELA WITHERSPOON
 ANGELINA ASTAIRE
 ANNE CRONYN
 AUDREY BAILEY
 AUDREY OLIVIER
 BELA WALKEN
 BEN HARRIS
 BEN WILLIS
 BETTE NICHOLSON
 BOB FAWCETT
 BURT DUKAKIS
 BURT POSEY
 BURT TEMPLE
 CAMERON STREEP
 CAMERON WRAY
```

2. Find all actors whose last name contain the letters GEN .

```
mysql> select first_name,last_name
    -> from actor
    -> where last_name like '%GEN%';

# first_name | last_name |

# VIVIEN | BERGEN |

# JODIE | DEGENERES |

# GINA | DEGENERES |

# NICK | DEGENERES |

# rows in set (0.00 sec)
```

3. Using IN, display the country_id and country columns of the following countries: Afghanistan, Bangladesh, and China.

4. List the last names of actors, as well as how many actors have that last name .

mysql> select -> from ac	last_name ,count(last_name)
	y last_name;
+	-+
last_name	count(last_name)
AKROYD	3
ALLEN	3
ASTAIRE	1
BACALL	1
BAILEY	2
BALE	1
BALL	1
BARRYMORE	1
BASINGER	1 1
BENING	2
BERGEN	1 1
BERGMAN	1 1
BERRY	3
BIRCH	1 1
BLOOM	1 1
BOLGER	2
BRIDGES	1 1
BRODY	j 2 j
BULLOCK	1 11
CAGE	2
CARREY	1 1
CHAPLIN	1 1
CHASE	2
CLOSE	1 11

Got

5. List last names of actors and the number of actors who have that last name, but only for names that are shared by at least two actors .

```
mysql> select last name ,count(last name) as count
    -> from actor
    -> group by last name
    -> having count(last_name)>=2
    -> limit 10;
  last name | count
 AKROYD
 ALLEN
  BAILEY
  BENING
 BERRY
 BOLGER
  BRODY
 CAGE
 CHASE
  CRAWFORD
10 rows in set (0.03 sec)
```

6. The actor HARPO WILLIAMS was accidentally entered in the actor table as GROUCHO WILLIAMS. Write a guery to fix the record .

7. Use JOIN to display the first and last names, as well as the address, of each staff member. Use the tables staff and address.

Go 1

8. List each film and the number of actors who are listed for that film. Use tables film_actor and film. Use inner join .

ysql> select title,co -> from film -> inner join film -> group by title -> Limit 20;	unt(actor_id)as 'Co _actor USING (film_	
title	Count of Actors	
ACADEMY DINOSAUR	10	
ACE GOLDFINGER	4	
ADAPTATION HOLES	5	
AFFAIR PREJUDICE	j 5 j	
AFRICAN EGG	5	
AGENT TRUMAN	7	
AIRPLANE SIERRA	5	
AIRPORT POLLOCK	4	
ALABAMA DEVIL	9	
ALADDIN CALENDAR	8	
ALAMO VIDEOTAPE	4	
ALASKA PHANTOM	7	
ALI FOREVER	5	
ALICE FANTASIA	4	
ALIEN CENTER	[6]	
ALLEY EVOLUTION	5	
ALONE TRIP	8	
ALTER VICTORY	4	
AMADEUS HOLY	6	
AMELIE HELLFIGHTERS	[6]	

9. How many copies of the film Hunchback Impossible exist in the inventory system.

10. Using the tables payment and customer and the JOIN command, list the total paid by each customer. List the customers alphabetically by last name.

-> group by	yment p stomer c stomer_id = 0	c.customer_id _id, c.last_n	=	SUM(p.am	ount) a	s lotal	
customer_id	last_name	first_name	Total				
505	ABNEY	RAFAEL	97.79				
504	ADAM	NATHANIEL	133.72				
36	ADAMS	KATHLEEN	92.73				
96	ALEXANDER	DIANA	105.73				
470	ALLARD	GORDON	160.68				
27	ALLEN	SHIRLEY	126.69				
220	ALVAREZ	CHARLENE	114.73				
11	ANDERSON	LISA	186.76				
326	ANDREW	JOSE	96.75				
183	ANDREWS	IDA	76.77				

11. The music of Queen and Kris Kristofferson have seen an unlikely resurgence. As an unintended consequence, films starting with the letters K and Q have also soared in popularity. Use subqueries to display the titles of movies starting with the letters K and Q whose language is English.

```
mysal> select title from film
   -> where (title like 'K%' OR title like 'Q%') AND
    -> language id=(select language id from language where name = 'English');
 title
 KANE EXORCIST
 KARATE MOON
 KENTUCKIAN GIANT
 KICK SAVANNAH
 KILL BROTHERHOOD
 KILLER INNOCENT
 KING EVOLUTION
 KISS GLORY
 KISSING DOLLS
 KNOCK WARLOCK
 KRAMER CHOCOLATE
 KWAI HOMEWARD
 QUEEN LUKE
 OUEST MUSSOLINI
 QUILLS BULL
15 rows in set (0.16 sec)
```

12. Use subqueries to display all actors who appear in the film Alone Trip.

13. You want to run an email marketing campaign in Canada, for which you will need the names and email addresses of all Canadian customers. Use joins to retrieve this information.

14. Sales have been lagging among young families, and you wish to target all family movies for a promotion. Identify all movies categorized as family films.

	+	_
title	category	
AFRICAN EGG	Family	
APACHE DIVINE	Family	
ATLANTIS CAUSE	Family	
BAKED CLEOPATRA	Family	
BANG KWAI	Family	
BEDAZZLED MARRIED	Family	
BILKO ANONYMOUS	Family	
BLANKET BEVERLY	Family	
BLOOD ARGONAUTS	Family	
BLUES INSTINCT	Family	
BRAVEHEART HUMAN	Family	
CHASING FIGHT	Family	
CHISUM BEHAVIOR	Family	
CHOCOLAT HARRY	Family	
CONFUSED CANDLES	Family	
CONVERSATION DOWNHILL	Family	
DATE SPEED	Family	
DINOSAUR SECRETARY	Family	
DUMBO LUST	Family	
EARRING INSTINCT	Family	

Act

15. Create a Stored procedure to get the count of films in the input category (IN category_name, OUT count).

```
mysal> DELIMITER //
mysql> create procedure FilmCount(IN category name varchar(40),
                               OUT Count INT )
    -> BEGIN
    -> select COUNT(category) INTO Count
    -> from film list
    -> where category = category_name;
    -> END //
Query OK, 0 rows affected (0.47 sec)
mysql> DELIMITER ;
mysql>
mysql> CALL FilmCount('Action',@count);
Query OK, 1 row affected (0.09 sec)
mysql> select @count;
  @count
      64
1 row in set (0.00 sec)
```

16. Display the most frequently rented movies in descending order .

```
mysql> select f.title as 'Movie' , count(r.rental date)as 'Count of Rented'
   -> from film as f
   -> join inventory as i ON i.film id = f.film id
    -> join rental as r ON r.inventory_id = i.inventory_id
   -> group by f.title
    -> order by count(r.rental date)desc Limit 10;
 Movie
                      | Count of Rented
 BUCKET BROTHERHOOD
                                     34
 ROCKETEER MOTHER
                                     33
 RIDGEMONT SUBMARINE
                                     32
 GRIT CLOCKWORK
                                     32
 SCALAWAG DUCK
                                     32
 JUGGLER HARDLY
                                     32
 FORWARD TEMPLE
                                     32
 HOBBIT ALIEN
                                     31
 ROBBERS JOON
                                     31
 ZORRO ARK
                                     31
10 rows in set (0.09 sec)
```

17. Write a guery to display for each store its store ID, city, and country.

```
mysql> select store id, city, country
    -> from store s
    -> join address a ON a.address id = s.address id
```

-> join city c ON c.city id = a.city id

-> join country cn ON cn.country id = c.country id

-> order by s.store id ;

2 rows in set (0.00 sec)

store id | city | country

Lethbridge | Canada Woodridge | Australia

18. List the genres and its gross revenue.

```
mysql> select c.name as 'Film' , SUM(p.amount)as 'Gross Revenue' from category as c
   -> join film_category as fc ON fc.category_id - c.category_id
   -> join inventory as i ON i.film id - fc.film id
   -> join rental as r ON r.inventory id = i.inventory id
   -> join payment as p ON p.rental id = r.rental id
   -> group by c.name
   -> order by SUM(p.amount) desc ;
 Film
             | Gross Revenue
 Sports
                     5314.21
 Sci-Fi
                     4756.98
 Animation
                     4656.30
 Drama
                    4587.39
 Comedy
                    4383.58
 Action
                    4375.85
                    4351.62
 New
 Games
                    4281.33
 Foreign
                    4270.67
 Family
                    4226.07
 Documentary
                    4217.52
 Horror
                     3722.54
 Children
                     3655.55
 Classics
                     3639.59
 Travel
                     3549.64
 Music
                     3417.72
16 rows in set (0.24 sec)
```

19. Create a View for the above query (18) .

```
mysql> create view film revenue as
   -> select c.name as 'Film' , SUM(p.amount)as 'Gross Revenue' from category as c
   -> join film category as fc ON fc.category id = c.category id
   -> join inventory as i ON i.film id = fc.film id
   -> join rental as r ON r.inventory id - i.inventory id
   -> join payment as p ON p.rental id = r.rental id
   -> group by c.name
   -> order by SUM(p.amount) desc;
Ouerv OK, 0 rows affected (0.15 sec)
mysql> SHOW FULL TABLES:
 Tables in sakila
                          Table type
 actor
                           BASE TABLE
 actor_info
                           VIEW
                           BASE TABLE
 address
 category
                           BASE TABLE
 city
                           BASE TABLE
                          BASE TABLE
 country
 customer
customer_list
                           BASE TABLE
                           VIEW
                           BASE TABLE
 film
 film actor
                           BASE TABLE
 film_category
film list
                          BASE TABLE
 film list
                           VIEW
 film revenue
                           VIEW
 film text
                           BASE TABLE
 inventory
                           BASE TABLE
 language
                           BASE TABLE
 nicer but slower film list | VIEW
 payment
                            BASE TABLE
 rental
                            BASE TABLE
 sales by film category
                           VIEW
 sales by store
                            VIEW
 staff
                            BASE TABLE
 staff list
                           VIEW
 store
                           BASE TABLE
24 rows in set (0.00 sec)
```

20. Select top 5 genres in gross revenue view.

5 rows in set (0.17 sec)